

**C|24™**

Version 7.4



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**WARNING:** This product contains chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

## Communications & Safety Regulation Information

### Compliance Statement

The model C|24 complies with the following standards regulating interference and EMC:

- FCC Part 15 Class A
- EN55103 – 1, environment E4
- EN55103 – 2, environment E4
- AS/NZS 3548 Class A
- CISPR 22 Class A

### Radio and Television Interference

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

### DECLARATION OF CONFORMITY

We, Digidesign,  
2001 Junipero Serra Blvd.  
Daly City, California 94014-3886, USA  
650-731-6100  
declare under our sole responsibility that the product  
C|24  
complies with Part 15 of FCC Rules.  
Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Communications Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications to this product not authorized by Digidesign, Inc., could void the Certification and negate your authority to operate the product.

### Canadian Compliance Statement:

This Class A digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada

### Australian Compliance



### European Compliance



### Safety Statement

This equipment has been tested to comply with USA and Canadian safety certification in accordance with the specifications of UL Standards: UL60065 7th /IEC 60065 7th and Canadian CAN/CSA C22.2 60065:03. Digidesign Inc., has been authorized to apply the appropriate UL & CUL mark on its compliant equipment.

### Warning



### Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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# Part I: Introduction



# Chapter 1: Welcome to C|24

Welcome to C|24™, Digidesign's 24-channel control surface for Pro Tools®.

C|24 gives you hands-on access to nearly all of the recording, routing, editing, and mixing features of Pro Tools.

C|24 also provides analog audio features that make it ideal for Pro Tools recording, monitoring, and studio communications.

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## C|24 Features

### Control Features

- 24 channel strips, each with the following controls:
  - Touch-sensitive motorized fader
  - Multi-function rotary encoder and switch
  - Automation Mode selector
  - Dedicated EQ and Dynamics switches
  - Dedicated Insert and Send switches
  - Dedicated Input and Rec Enable switches
  - Channel Solo and Mute switches
  - Channel Select switch
  - Dual-row multi-function display
- Global Automation Mode and Enable controls
- Transport and Navigation controls
- Edit and Function controls
- Pro Tools window and Global control switches

### Analog Audio Features

- 16 microphone/line/DI preamplifiers with the following features:
  - Continuously variable input gain control
  - Switchable high-pass filter
  - Clip indicators
  - Phantom power (in 2 groups of 8 channels)
- 8x2 submixer with the following features:
  - 8 inputs with independent gain controls
  - Stereo mix output with master volume control
  - Switchable output to C|24 Monitor section
- 6-channel monitor section with the following features:
  - 2 (Main and Alt) Surround input sources
  - 2 External Stereo input sources
  - Main (5.1, LCRS, or Stereo) and Alt (Stereo) monitor outputs with selector switch and level control
  - 2 channels of Cue output
  - Headphone output with level control and cue monitoring capability
  - Talkback with built-in or external source and level control
  - Listenback with external input and level control

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## System Requirements

C|24 requires the following system components:

- A Digidesign-qualified Pro Tools system
- An available Ethernet connection on the host computer

For complete system requirements, visit the Digidesign website ([www.digidesign.com](http://www.digidesign.com)).

### Compatibility Information

Digidesign can only assure compatibility and provide support for hardware and software it has tested and approved.

For a list of Digidesign-qualified computers, operating systems, and third-party devices, visit the Digidesign website ([www.digidesign.com](http://www.digidesign.com)).

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## Operational Requirements

### Temperature and Ventilation

C|24 should be installed and operated in a climate-controlled environment, away from heat sources, and with adequate ventilation.

C|24 should be operated at an ambient temperature that does not exceed 100 degrees F (35 degrees C).

The back panel of the C|24 should be exposed to ambient air. Blocking or partially blocking the back panel of the C|24 may cause the unit to malfunction and may void your warranty.

### Water and Moisture

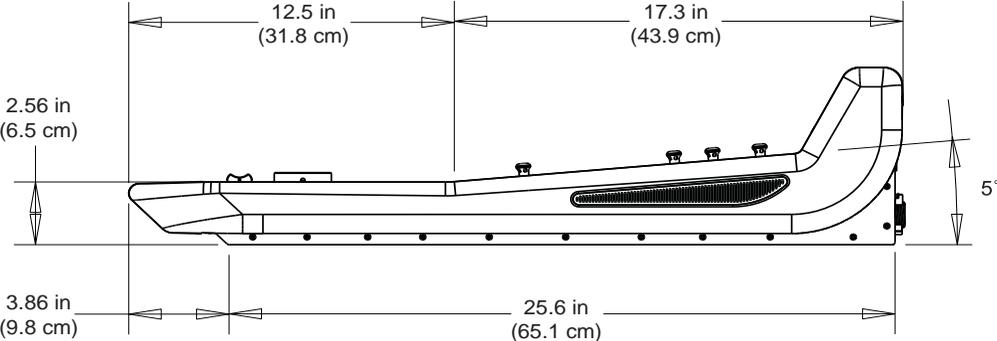
C|24 should be operated away from sources of moisture or humidity and should be kept clear of liquids that might spill into the unit.

### Cleaning and Maintenance

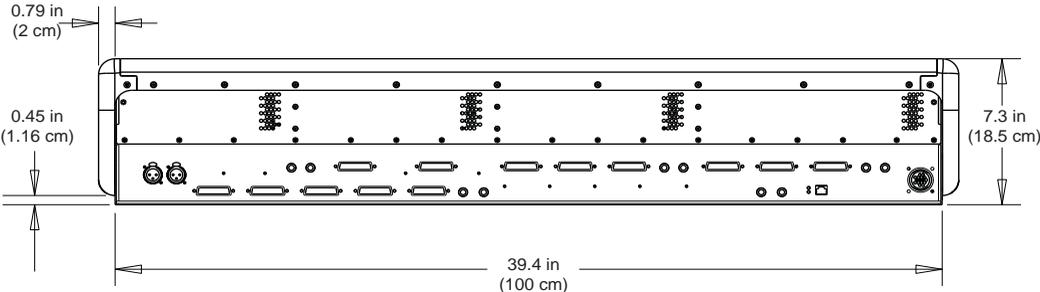
If you need to clean the C|24 top surface, apply a small amount of water to a cloth or paper towel, then carefully wipe the surface.

Do not use abrasives, cleaning solutions, or spray cleaners.

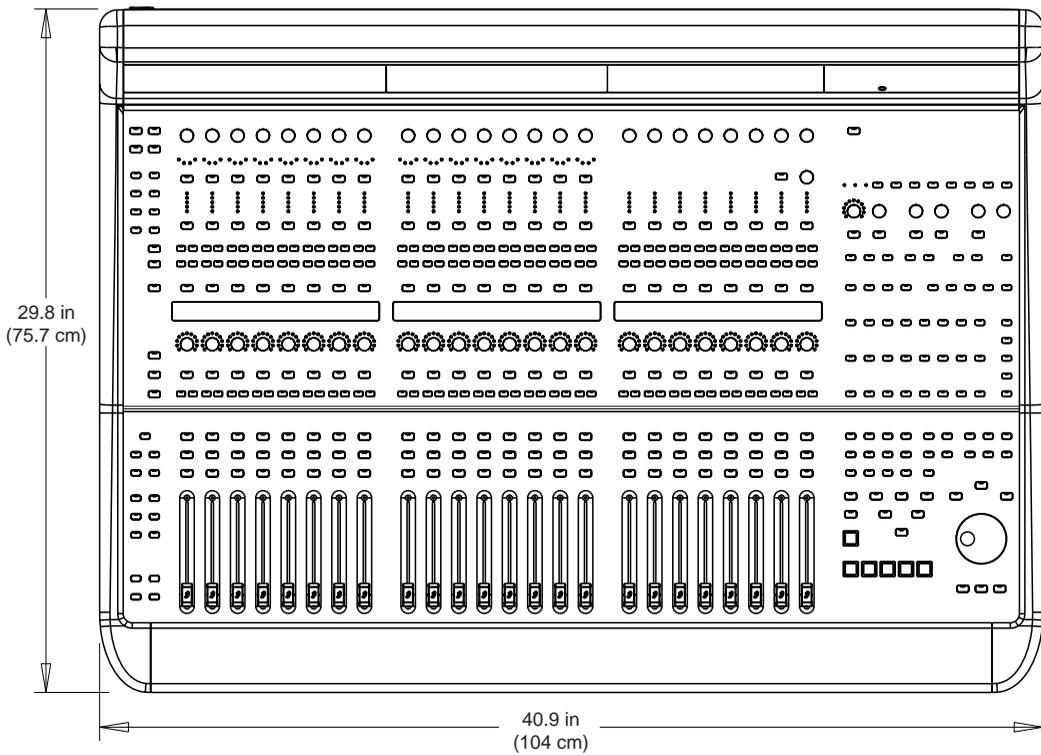
# Mechanical Specifications



C|24 side dimensions



C|24 back dimensions



**C|24 top dimensions**

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## Connection Requirements

### Power Connections

C|24 includes an external power supply that is auto power-selecting (90-250V, 50-60 Hz) and will work automatically when plugged into an AC power receptacle in any country.

Make sure your power source is correctly rated for all of the components of your system. A surge-protected power source (not included) is highly recommended.

### Ethernet Connections

C|24 communicates with Pro Tools using Ethernet.

- ◆ If C|24 is the only Ethernet device you are using with your computer, you can connect it directly to the Ethernet port on the computer.
- ◆ If you are using other Ethernet devices (such as a connection to a Local Area Network) in addition to C|24, an Ethernet hub (not included) is required.

### Audio Connections

- ◆ The analog audio inputs and outputs for the mic/line/DI preamplifiers and the monitoring section, and the inputs for the built-in submixer on C|24 are DB-25 connectors.

- ◆ Four alternate connectors for DI inputs, alternate (stereo) outputs for the monitoring section, and the outputs for the built-in submixer on C|24 are 1/4-inch connectors.

For more information on audio connections, see Appendix A, “C|24 Connector Pinouts.”

### Audio Cables for C|24 Monitoring

Digidesign offers a range of DigiSnake cabling options for connecting Digidesign interfaces and external sources to the C|24.

For more information on DigiSnake audio cables, visit the Digidesign website ([www.digidesign.com](http://www.digidesign.com)).

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## Digidesign Registration

Review the enclosed Digidesign Registration Information Card and follow the instructions on it to quickly register your purchase online. Registering your purchase is the only way you can be eligible to receive complimentary technical support and future upgrade offers. It is one of the most important steps you can take as a new user.

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## About This Guide

This guide explains how to install and make connections to your C|24, and how to use it to access Pro Tools features and commands.

For complete information on using Pro Tools software, refer to the guides included with your Pro Tools system.

## Conventions Used in This Guide

Digidesign guides use the following conventions to indicate menu choices and key commands:

Convention	Action
File > Save	Choose Save from the File menu
Control+N	Hold down the Control key and press the <i>N</i> key
Control-click	Hold down the Control key and click the mouse button
Right-click	Click with the right mouse button

The following symbols are used to highlight important information:



*User Tips are helpful hints for getting the most from your system.*



*Important Notices include information that could affect your data or the performance of your system.*



*Shortcuts show you useful keyboard or mouse shortcuts.*



*Cross References point to related sections in this guide and other Digidesign guides.*

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## About www.digidesign.com

The Digidesign website ([www.digidesign.com](http://www.digidesign.com)) is your best source for information to help you get the most out of your Pro Tools system. The following are just a few of the services and features available.

**Registration** Register your purchase online. See the enclosed Digidesign Registration Information Card for instructions.

**Support** Contact Digidesign Technical Support or Customer Service; download software updates and the latest online manuals; browse the Compatibility documents for system requirements; search the online Answerbase; join the worldwide Pro Tools community on the Digidesign User Conference.

**Training and Education** Become a certified Pro Tools Operator or Expert; study on your own using courses available online, or find out how you can learn in a classroom setting at a certified Pro Tools Training Center.

**Products and Developers** Learn about Digidesign products; download demo software; learn about our Development Partners and their plug-ins, applications, and hardware.

**News and Events** Get the latest news from Digidesign; sign up for a Pro Tools demo.

To learn more about these and other resources available from Digidesign, visit the Digidesign website ([www.digidesign.com](http://www.digidesign.com)).

# Chapter 2: C|24 Overview

## C|24 Top Panel

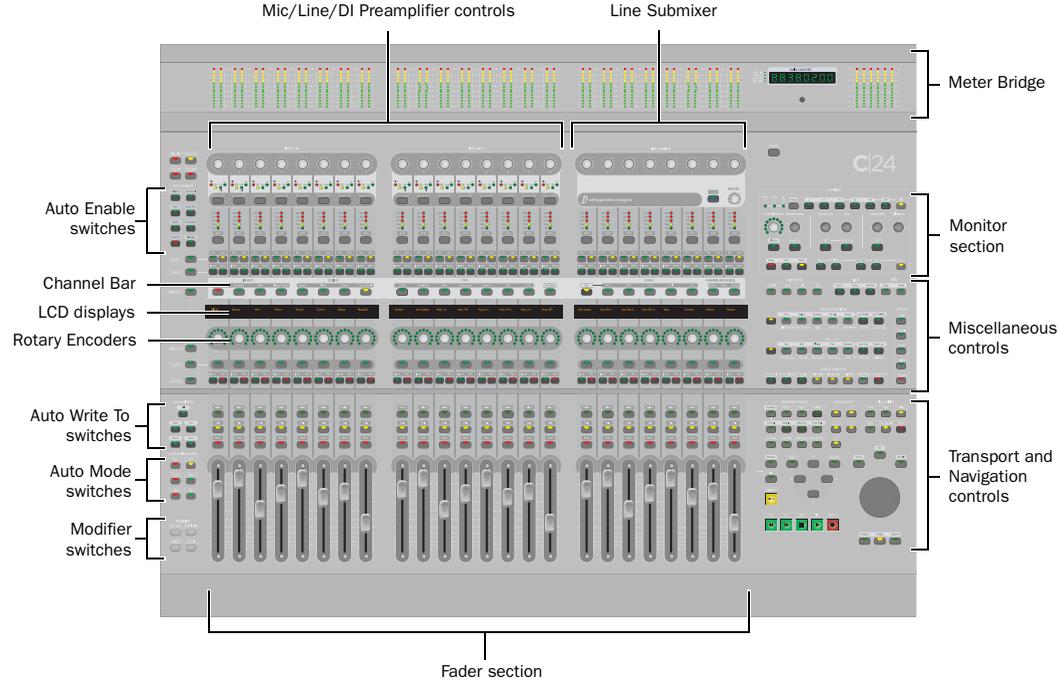


Figure 1. C|24 top panel

## Meter Bridge

The Meter Bridge features a six-channel output meter, 24 pairs of channel meters, a Pro Tools Main Counter display, and a built-in Talkback microphone.

## Mic/Line/DI Preamp Controls

C|24 includes 16 analog Mic/Line preamplifiers, with phantom power capability and a switchable high-pass filter. Four channels have available 1/4-inch inputs connectors that override the DB-25 inputs.

## Line Submixer

C|24 also includes an analog line submixer with 8 stereo inputs and a stereo output that can be used to integrate analog studio equipment into your studio. The external output of the submixer can be routed to a Pro Tools audio interface. Line submixer output can also be routed internally to the Monitoring section.

## Monitor Section

The Control Room Monitor section provides two selectable input sources, Main and Alt (both supporting up to 5.1 Surround); and two selectable outputs, Main (supporting 5.1, LCRS or Stereo monitoring modes) and Alt (supporting Stereo monitoring only). It also provides Cue mix output, Studio LS output, and full Talkback and Listenback capability to facilitate studio communication.

## Miscellaneous Controls

C|24 provides one-touch access to Pro Tools Edit modes, Edit tools, MIDI commands and operations, Pro Tools windows, Groups, Memory Locations, Window Configurations, and a range of powerful global controls that let you apply operations to multiple tracks.

## Transport and Navigation Controls

C|24 gives you full control of Pro Tools transport functions with one-touch access to a range of audition functions, plus dedicated switches for multiple playback and recording modes. The Scrub /Shuttle wheel and Navigation key quadrant allow quick navigation in Pro Tools.

## Channel Bar

The Channel Bar provides powerful controls for viewing, assigning, and editing Inputs, Outputs, Inserts, Sends, Pan controls, plug-in parameters, Digidesign PRE settings, and C|24 settings.

## LCD Displays

Three multi-purpose 55x2 LCD displays provide access to a range of track information, Channel Bar functions, Soft Key commands, and C|24 settings.

## Rotary Encoders

Twenty-four multi-purpose rotary encoders let you view and control volume and pan values, edit plug-in parameters, and make assignments.

## Automation Controls

C|24 includes dedicated controls for setting the automation mode of individual channels, for enabling and suspending automation types, and setting the global automation mode.

## Fader Section

Twenty-four 100mm touch-sensitive, motorized faders allow precise control and automation of track volume. Flip mode lets you control additional Pro Tools parameters from the faders.

## C|24 Back Panel

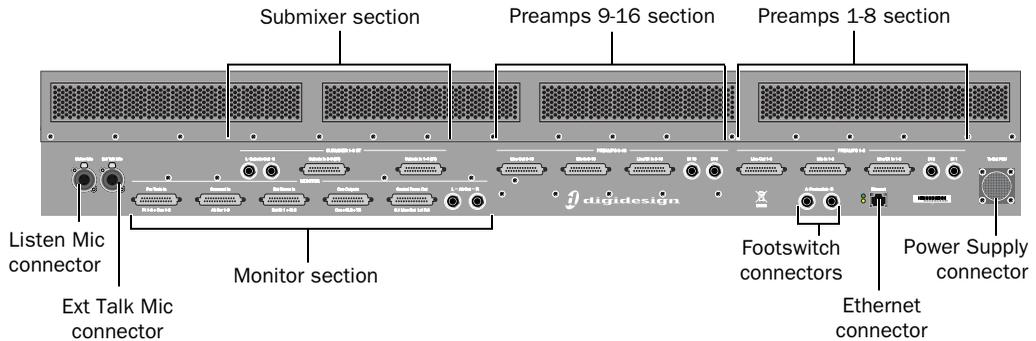


Figure 2. C|24 back panel

### Submixer Section

Two DB-25 female connectors allow connection of a total of 16 channels (8 stereo inputs). Stereo output is available on 1/4-inch TRS connectors.

### Preamp Sections

Each of the two 8-channel preamp sections has two DB-25 female connectors that provide separate, switchable Mic and Line inputs, plus two alternate 1/4-inch TRS connectors. A third DB-25 connector in each section provides preamp outputs.

### Monitor Section

Five DB-25 female connectors allow connection of two six-channel inputs, two stereo inputs, and a pair of cue inputs. Outputs include a six-channel Main output, stereo Alt Output (also available on 1/4-inch TRS connectors), stereo LS and Cue outputs, and a Talkback Slate output.

### Listen Mic and External Talkback Mic Connectors

Two XLR microphone connectors allow connection of a Listenback microphone and an optional external Talkback microphone.

### Footswitch Connectors

Two 1/4-inch TRS footswitch connectors can be assigned independently to control Pro Tools recording punch in/out, Pro Tools transport start/stop, or C|24 talkback on/off.

### Ethernet Connector

C|24 communicates with Pro Tools using Ethernet. This connection uses a standard RJ45 connector.

### Power Supply Connector

C|24 comes with a dedicated external power supply that connects to this port.



# Part II: Installation



# Chapter 3: Installing and Configuring C|24

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## Installing C|24

C|24 can be set on a level table top or mounted in a console or desk.

Wherever you install C|24, make sure not to block air circulation to the vents on the back of the unit.

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## Connecting Power to C|24

C|24 comes with a dedicated external power supply that has an IEC standard AC receptacle. This connector accepts a standard AC power cable.

### To connect power to C|24:

- 1 Connect the external power supply to the connector marked “To Ext PSU” on the back panel of C|24. Make sure the connector is oriented correctly before securing the connection.
- 2 Connect the included AC power cord to the external power supply.
- 3 Connect the other end of the AC power cord to a power source.

---

## Connecting C|24 to the Computer

C|24 communicates with Pro Tools using Ethernet. This connection uses a standard RJ45 connector.

- ◆ If you are connecting C|24 directly to your computer, use a crossover Ethernet cable (one is included with C|24).
- ◆ If you are connecting C|24 to an Ethernet hub or network, use a standard Ethernet cable (not included).

### If C|24 will be the only Ethernet device connected to your computer:

- 1 Connect one end of the included crossover Ethernet cable to the Ethernet port on the back panel of C|24.
- 2 Connect the other end of the crossover Ethernet cable to the appropriate Ethernet port on the computer.

**If you have more than one Ethernet device in addition to C|24:**

- 1 Connect one end of a standard Ethernet cable (not included) to the Ethernet port on the back panel of C|24.
- 2 Connect the other end of the Ethernet cable to a powered Ethernet hub (do not use any port labeled for LAN connection).
- 3 Connect the Ethernet hub to the appropriate Ethernet port on the computer.

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## Starting Up and Shutting Down a Pro Tools System

Your C|24-based Pro Tools system should be started up and shut down in a specific order.

**Start your system in this order:**

- 1 Turn on external hard drives first. Wait 10 to 15 seconds for them to come up to speed.
- 2 Turn on the C|24.
- 3 If you plan to work with MIDI equipment, turn on MIDI interfaces and other MIDI devices.
- 4 Turn on all Pro Tools audio interfaces.
- 5 Turn on the computer.
- 6 Turn on monitor amplifiers or self-powered speakers.

**Shut down your system in this order:**

- 1 Turn off monitor amplifiers or self-powered speakers.
- 2 Turn off all Pro Tools audio interfaces.
- 3 Shut down the computer.
- 4 If you are using MIDI equipment, turn off MIDI interfaces and other MIDI devices.
- 5 Turn off the C|24.
- 6 Turn off external hard drives.

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## Configuring C|24

All C|24 software is included when Pro Tools software is installed. The Pro Tools installer places the C|24 Personality file in the Controllers folder inside the Pro Tools folder.

Refer to the *Getting Started Guide* that came with your system for instructions on installing or updating Pro Tools software.

## Updating System Firmware

Each release of Pro Tools software includes current C|24 firmware. When you declare a C|24 unit in the Pro Tools Peripherals dialog, Pro Tools prompts you if a firmware update is available.

If you are prompted to update firmware, follow the on-screen instructions to load the latest firmware to the C|24.

## Establishing Communication Between C|24 and Pro Tools

Communication between C|24 and Pro Tools is configured by *declaring* the unit in Pro Tools.

### To declare C|24 in Pro Tools:

- 1 Choose Setup > Peripherals, and click Ethernet Controllers.



*Ethernet Controllers page in the Peripheral dialog*

- 2 Select Enable. Pro Tools scans the Ethernet connection for any Ethernet controllers connected to the system.

- 3 Select the C|24 from the pop-up menu for Controller #1.

If you are connected to a network, any Ethernet controllers available on the network will be displayed in the pop-up menu, as follows:

- ◆ Bold text indicates a connected unit.
  - ◆ Italic text indicates an offline or disconnected unit.
  - ◆ Dimmed text indicates that the selected unit is in use by another Pro Tools system.
- 4 Click OK to close the Peripherals dialog.

When communication is established, Pro Tools displays colored outlines identifying the tracks focused on C|24.

## Naming C|24

You can set a name for a C|24 unit so that it can be easily identified on a network shared with other Ethernet controllers. You can name C|24 from Pro Tools, or directly from the unit in Utility Mode.

### To name C|24 in Pro Tools:

- 1 Choose Setup > Peripherals, and click Ethernet Controllers.
- 2 Click Name Units. Any declared controllers will appear in the Ethernet Controller Units window.



### Naming the C|24

- 3 Enter the name for the C|24 and click OK.
- 4 For information on naming C|24 from the unit, see “Unit Name” on page 118.

## Using Additional Control Surfaces with C|24

When a C|24 is declared in Pro Tools, the use of additional control surfaces is subject to the following restrictions:

- ◆ You can use a MIDI-based control surface (such as a Digidesign Command|8) or another MIDI-based controller (such as the Digidesign Surround Panner Option) at the same time as a C|24. A MIDI control surface will mirror the first 8 channels on C|24.
- ◆ You cannot use another Ethernet-based control surface (such as an ICON worksurface, Control|24, or ProControl) at the same time as a C|24.
- ◆ You cannot declare more than one C|24 on a Pro Tools system at a time.

---

## Setting C|24 Preferences

The following operational preferences for C|24 are set from the unit, not from Pro Tools.

### External Talkback Microphone

You can choose to use an external Talkback microphone instead of the built-in Talkback microphone in the C|24 Meter Bridge. See “External Talkback Microphone” on page 116.

### Talkback Latching

You can set Talkback to latch on when the Talkback switch is double-pressed. See “Talkback Latching” on page 116.

### Auto Talkback

You can enable Auto Talkback, which automatically turns on the Talkback and Listen microphones when the Pro Tools Transport is stopped. See “Auto Talkback” on page 120.

### Mic Pre Clip Hold Time

You can set the Clip Hold time for the C|24 built-in mic/line/DI preamplifiers. See “Mic Pre Clip Hold” on page 117.

### Footswitch Function

You can set the function and polarity for the two Footswitch connectors on C|24. See “Footswitch Function and Polarity” on page 117.

### Console Preferences

You can set the behavior of C|24 displays and controls and how they interact with Pro Tools. See “Console Preferences” on page 47.

# Chapter 4: Audio Connections

C|24 offers versatile analog audio features for routing audio to and from Pro Tools and other audio equipment in your studio.

The Mic/Line/DI preamplifiers, built-in Line Submixer, and Monitor section operate independently of Pro Tools and can be used whenever C|24 is powered on.

Audio connectors for the built-in Mic/Line/DI preamplifiers, Submixer, and Monitor section are provided on the back panel of C|24.

This chapter provides a summary of the available audio connections to C|24. For detailed pinout tables, see Appendix A, “C|24 Connector Pinouts.” For example studio connections, see Chapter 5, “Connecting Your Studio.”

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## Mic/Line/DI Preamplifiers

C|24 provides 16 Mic/Line/DI preamplifiers that can be used to route input signals to a Pro Tools audio interface for recording. The Mic/Line/DI inputs and outputs appear on the C|24 back panel in six DB-25 connectors.

The Mic/Line/DI preamplifiers operate independently of Pro Tools and can be used whenever C|24 is powered on.

## Mic/Line/DI Preamp Inputs

**Mic/Line Inputs** C|24 Mic/Line/DI preamplifier inputs appear in two groups of 8 balanced inputs (1-8, 9-16) on the back panel. Each group of inputs has separate DB-25 female connectors for mic level and line level inputs, labeled as follows:

- Mic In 1-8
- Line/DI In 1-8
- Mic In 9-16
- Line/DI In 9-16

The input source (Mic or Line) can be selected individually for each channel using the Mic/Line/DI preamplifier controls on the top panel of C|24.

**Alternate 1/4-inch connectors** C|24 input channels 1, 2, 9, and 10 also have alternate 1/4-inch balanced TRS connectors on the back panel, labeled as follows:

- DI 1
- DI 2
- DI 9
- DI 10

When a source is plugged into a DI input (1, 2, 9, or 10), the corresponding Mic/Line input (1, 2, 9, or 10) becomes unavailable.

Mic/Line/DI preamplifier inputs are shown in the following tables.

**Mic In 1-8**

Channel	Signal
1	Mic In 1
2	Mic In 2
3	Mic In 3
4	Mic In 4
5	Mic In 5
6	Mic In 6
7	Mic In 7
8	Mic In 8

**Line In 1-8**

Channel	Signal
1	Line In 1
2	Line In 2
3	Line In 3
4	Line In 4
5	Line In 5
6	Line In 6
7	Line In 7
8	Line In 8

**DI In 1-2 (overrides Mic/Line In 1-2)**

Channel	Signal
1	Line In 1
2	Line In 2

**Mic In 9-16**

Channel	Signal
1	Mic In 9
2	Mic In 10
3	Mic In 11
4	Mic In 12
5	Mic In 13
6	Mic In 14
7	Mic In 15
8	Mic In 16

### Line In 9-16

Channel	Signal
1	Line In 9
2	Line In 10
3	Line In 11
4	Line In 12
5	Line In 13
6	Line In 14
7	Line In 15
8	Line In 16

### DI In 9-10 (overrides Mic/Line In 9-10)

Channel	Signal
1	Line In 9
2	Line In 10

## Mic/Line/DI Preamp Outputs

C|24 Mic/Line/DI preamplifier outputs appear in two groups of 8 line-level outputs (1-8, 9-16) on the back panel. Each group of outputs has a DB-25 female connector, labeled as follows:

- Line Out 1-8
- Line Out 9-16

Mic/Line/DI preamplifier outputs are shown in the following tables.

## Line Outputs

### Line Out 1-8

Channel	Signal
1	Line Out 1
2	Line Out 2
3	Line Out 3
4	Line Out 4
5	Line Out 5
6	Line Out 6
7	Line Out 7
8	Line Out 8

### Line Out 9-16

Channel	Signal
1	Line Out 9
2	Line Out 10
3	Line Out 11
4	Line Out 12
5	Line Out 13
6	Line Out 14
7	Line Out 15
8	Line Out 16

---

## Line Submixer

C|24 provides an 8x2 Line Submixer that can be used to mix instrument inputs, auxiliary returns, or other external sources to stereo.

The output of the Line Submixer can then be connected to Pro Tools audio interface inputs for recording, or it can be monitored through the Monitor section of C|24.

The built-in Line Submixer operates independently of Pro Tools and can be used whenever C|24 is powered on.

## Line Submixer Inputs

C|24 Line Submixer inputs appear as two groups of 4 stereo inputs (1-4, 5-8) on the back panel. Each group of stereo inputs has a DB-25 female connector, labeled as follows:

- Submix In 1-4 (ST)
- Submix In 5-8 (ST)

Each of the 8 submixer inputs has an independent gain control on the top panel.

Line Submixer input connections are shown in the following tables.

### Submix In 1-4

Channel	Signal
1	Submixer Input 1 (Left)
2	Submixer Input 1 (Right)
3	Submixer Input 2 (Left)
4	Submixer Input 2 (Right)
5	Submixer Input 3 (Left)
6	Submixer Input 3 (Right)
7	Submixer Input 4 (Left)
8	Submixer Input 4 (Right)

### Submix In 5-8

Channel	Signal
1	Submixer Input 5 (Left)
2	Submixer Input 5 (Right)
3	Submixer Input 6 (Left)
4	Submixer Input 6 (Right)
5	Submixer Input 7 (Left)
6	Submixer Input 7 (Right)
7	Submixer Input 8 (Left)
8	Submixer Input 8 (Right)

## Line Submixer Outputs

**Stereo Outputs** C|24 Line Submixer outputs appear as a pair of line-level outputs (L-R) on the back panel. Each output has a 1/4-inch balanced TRS connector, labeled as follows:

- Submix Out L
- Submix Out R

### Submix Out 1-2

Channel	Signal
1	Submix Out (Left)
2	Submix Out (Right)

**Stereo Output to Monitor Section** C|24 Submixer outputs (L-R) can also be routed to the Left and Right channels of the C|24 Monitor section using the “To Mon” switch on the top panel of C|24. This is useful for monitoring your studio equipment when you are not running Pro Tools.

The submixer output level is controlled with the Master level control on the top panel.

---

## Monitor Section

The C|24 Monitor section is a six-channel control room monitoring system that allows connection of up to four input sources (two 6-channel or 4-channel surround, and two stereo), two cue inputs, and two outputs (one 6-channel surround and one stereo).

Monitor section Inputs are connected to Pro Tools audio interface outputs and other input sources in your studio. Monitor section Outputs are connected to your speakers, cue system, headphones, and studio talkback and listenback systems.

The Monitor section operates independently of Pro Tools and can be used to monitor other input sources whenever C|24 is powered on.

### Monitor Section Inputs

C|24 Monitor section inputs appear on three DB-25 female connectors on the back panel, labeled as follows:

- Pro Tools In (PT 1-6 + Cue 1-2)
- Surround In (Alt Sur 1-6)
- Ext Stereo In (Ext St 1 + St 2)

Input sources can be selected individually or summed using the Monitor source switches on the top panel of C|24.

Monitor section input connections are shown in the following tables.

### Pro Tools In (PT 1-6 + Cue 1-2)

**Main Inputs** Connect the outputs from your Pro Tools system to the Main Inputs.

**Cue Inputs** Connect cue outputs from your Pro Tools system (such as a Send-based cue mix routed to audio interface outputs) to the Cue Inputs.

#### Pro Tools In (PT 1-6 + Cue 1-2)

Channel	Signal
1	Main Input Left (L)
2	Main Input Center (C)
3	Main Input Right (R)
4	Main Input Left Surround (Ls)
5	Main Input Right Surround (Rs)
6	Main Input LFE (LFE)
7	Cue Input Left
8	Cue Input Right

### Surround In (Alt Sur 1-6)

**Alternate Surround Inputs** Connect an alternate input source (up to 5.1 surround) to the Alt Sur (Alternate Surround) Inputs.

#### Surround In (Alt Sur 1-6)

Channel	Signal
1	Alt Input Left (L)
2	Alt Input Center (C)
3	Alt Input Right (R)
4	Alt Input Left Surround (Ls)
5	Alt Input Right Surround (Rs)
6	Main Input LFE (LFE)
7	(Unused)
8	(Unused)

## Ext Stereo In (Ext St 1 + St 2)

**External Stereo Inputs** Connect external stereo sources (such as a DAT or CD player) to the External Stereo Inputs.

### Ext Stereo In (Ext St 1 + St 2)

Channel	Signal
1	Ext Stereo 1 In Left
2	Ext Stereo 1 In Right
3	Ext Stereo 2 In Left
4	Ext Stereo 2 In Right
5	(Unused)
6	(Unused)
7	(Unused)
8	(Unused)

## Monitor Section Outputs

C|24 Monitor section outputs appear on two DB-25 female connectors on the back panel, labeled as follows:

- Control Room Out (5.1 Mon Out L:1 R:3)
- Cue Outputs (Cue + SLS + TB)

The Monitor section output mode can be set to 5.1, LCRS, or Stereo using the Monitor mode switches on the top panel of C|24.

Monitor section output connections are shown in the following tables.

## Control Room Out (5.1 Mon Out L:1 R:3)

**Main Outputs** Connect the Main Outputs to your primary studio monitors (tables are shown below for 5.1, LCRS and Stereo Main monitor setups).

**Alternate Outputs** Connect the Alternate Outputs to a secondary pair of studio monitors. The Alt Outputs (L-R) are also available on 1/4-inch balanced TRS connectors on the back panel, and mirror the output signal on the Alt Outputs on the Control Room Out connector.

### Main Outputs (5.1) and Alternate Outputs

#### Control Room Out (5.1 Mon Out L:1 R:3)

Channel	Signal
1	Main Output Left (L)
2	Main Output Center (C)
3	Main Output Right (R)
4	Main Output Left Surround (Ls)
5	Main Output Right Surround (Rs)
6	Main Output LFE (LFE)
7	Alt (Stereo) Output Left
8	Alt (Stereo) Output Right

## Main Outputs (LCRS) and Alternate Outputs

### Control Room Out (5.1 Mon Out)

Channel	Signal
1	Main Output Left (L)
2	Main Output Center (C)
3	Main Output Right (R)
4	Surround Output (S)
5	(Unused)
6	(Unused)
7	Alt (Stereo) Output Left
8	Alt (Stereo) Output Right

## Main Outputs (Stereo) and Alternate Outputs

### Control Room Out (5.1 Mon Out)

Channel	Signal
1	Main Output Left (L)
2	(Unused)
3	Main Output Right (R)
4	(Unused)
5	(Unused)
6	(Unused)
7	Alt (Stereo) Output Left
8	Alt (Stereo) Output Right

## Alternate Outputs (Stereo)

### Alt Outputs (Alt Out L-R on 1/4-inch TRS connectors)

Chan	Signal
1	Alt (Stereo) Output Left
2	Alt (Stereo) Output Right

## Cue Outputs (Cue + SLS +TB)

**Cue Outputs** Connect the Cue Outputs to the inputs of your cue system.

**Studio LS Outputs** Connect Studio LS Outputs to speakers in your live room.

**Talkback Slate Output** Connect the Talkback Slate Output to an available Pro Tools input to record slate information.

### Cue Outputs (Cue + SLS + TB)

Channel	Signal
1	Cue Out Left
2	Cue Out Right
3	Studio LS Out Left
4	Studio LS Out Right
5	Talkback Slate Out
6	(Unused)
7	(Unused)
8	(Unused)

## **Listen and Talkback Microphones**

C|24 provides connectors for a Listen microphone and an optional External Talkback microphone.

**Listen Mic** This XLR connector lets you connect a microphone to provide two-way communication between the studio and the control room.

**External Talkback Mic** This XLR connector lets you connect an external microphone to use in place of the built-in Talkback microphone. Talkback input is selected in the Talkback Preferences in Utility mode. See “External Talkback Microphone” on page 116.

For more information on the Talkback function, see “Talkback Switch” on page 59.

## **Headphone Output**

C|24 provides a headphone output with a 1/4-inch TRS connector on the front of the unit.

Headphone source is switchable between Control Room outputs L and R (channels 1 and 3, pre-fader) and the Cue send (post-fader).

# Chapter 5: Connecting Your Studio

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## Connection Examples for Stereo Monitoring

You can set up a basic stereo monitoring system using 2-channel input from Pro Tools. This input can be monitored on channels 1 (Left) and 3 (Right) of the C|24 Main Monitor outputs, or in the C|24 Alt Monitor (Stereo) outputs.

Another stereo source can be monitored by connecting it to channels 1 (Left) and 3 (Right) of the Alternate Surround Inputs.

Additional stereo sources can be monitored by connecting them to the External Stereo 1 and 2 Inputs.

You can also connect a separate cue send from Pro Tools, and route it to the C|24 cue system outputs.

The following tables and diagram show examples of connections for stereo monitoring.

## Monitoring System Inputs

### Main Inputs and Cue Inputs

#### *Pro Tools In (PT 1-6 + Cue 1-2)*

Chan	Signal
1	Main Input Left (L) from Pro Tools Out 1
2	no connection
3	Main Input Right (R) from Pro Tools Out 2
4	no connection
5	no connection
6	no connection
7	Cue Input Left from Pro Tools Cue Out 1
8	Cue Input Right from Pro Tools Cue Out 2

### Alternate Inputs

#### *Surround In (Alt Sur 1-6)*

Chan	Signal
1	Alt Input Left (L)
2	no connection
3	Alt Input Right (R)
4	no connection
5	no connection
6	no connection

### External Stereo Inputs

#### *Ext Stereo In (Ext St 1 + St 2)*

Chan	Signal
1	Ext Stereo 1 In Left from CD player
2	Ext Stereo 1 In Right from CD player
3	Ext Stereo 2 In Left from DAT deck
4	Ext Stereo 2 In Right from DAT deck

## Monitoring System Outputs

### Main Outputs (Stereo) and Alternate Outputs

#### *Control Room Out (5.1 Mon Out L:1 R:3)*

Chan	Signal
1	Main Output Left (L) to Main speaker L
2	no connection
3	Main Output Right (R) to Main speaker R
4	no connection
5	no connection
6	no connection
7	Alt (Stereo) Output Left to Alt speaker L
8	Alt (Stereo) Output Right to Alt speaker R

#### *Alt Outputs (Alt Out L-R on 1/4-inch TRS connectors)*

Chan	Signal
1	Alt (Stereo) Output Left to Alt speaker L
2	Alt (Stereo) Output Right to Alt speaker R

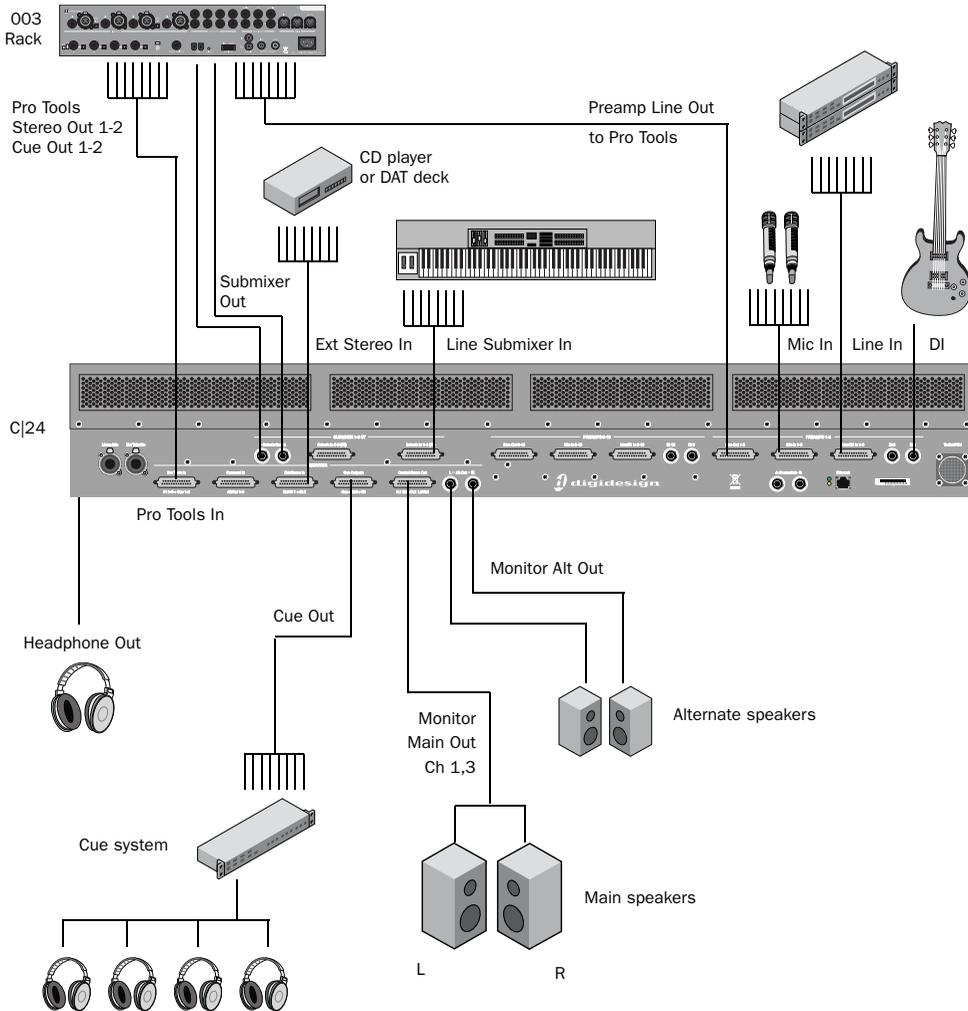
### Cue Outputs

#### *Cue Outputs (Cue + SLS + TB)*

Channel	Signal
1	Cue Out Left to cue system
2	Cue Out Right to cue system

# Stereo Studio Connections

(Example Setup)



Example studio setup with stereo monitoring

---

## Connection Examples for Surround Monitoring

You can set up a surround monitoring system using up to 6-channel input from Pro Tools.

5.1, LCRS, or Stereo input can be monitored in the C|24 Main Monitor outputs. Stereo input can also be monitored in the C|24 Alt Monitor (Stereo) outputs.

An additional surround source can be monitored by connecting it to the Alternate Surround Inputs.

External stereo sources can be monitored by connecting them to the External Stereo 1 and 2 Inputs.

You can also connect a separate cue send from Pro Tools, and route it to the C|24 cue system outputs.

The following tables and diagram show examples of connections for surround monitoring.

## Monitoring System Inputs

### Monitor Inputs and Cue Inputs

*Pro Tools In (PT 1-6 + Cue 1-2)*

Chan	Signal
1	Main Input Left (L) from Pro Tools Out 1
2	Main Input Center (C) from Pro Tools Out 2
3	Main Input Right (R) from Pro Tools Out 3
4	Main Input L Surr (Ls) from Pro Tools Out 4
5	Main Input R Surr (Rs) from Pro Tools Out 5
6	Main Input LFE (LFE) from Pro Tools Out 6
7	Cue Input Left from Pro Tools Cue Out 1
8	Cue Input Right from Pro Tools Cue Out 2

### Alternate Surround Inputs

*Surround In (Alt Sur 1-6)*

Chan	Signal
1	Alt Input Left (L) from DVD player
2	Alt Input Center (C) from DVD player
3	Alt Input Right (R) from DVD player
4	Alt Input Left Surround (Ls) from DVD player
5	Alt Input Right Surround (Rs) from DVD player
6	Alt Input LFE (LFE) from DVD player

### External Stereo Inputs

*Ext Stereo In (Ext St 1 + St 2)*

Chan	Signal
1	Ext Stereo 1 In Left from CD player
2	Ext Stereo 1 In Right from CD player
3	Ext Stereo 2 In Left from DAT deck
4	Ext Stereo 2 In Right from DAT deck

## Monitoring System Outputs

### Main Outputs (5.1) and Alternate Outputs

*Control Room Out (5.1 Mon Out L:1 R:3)*

Chan	Signal
1	Main Output Left (L) to Left speaker
2	Main Output Center (C) to Center speaker
3	Main Output Right (R) to Right Speaker
4	Main Output Left Surround (Ls) to Left Surround speaker
5	Main Output Right Surround (Rs) to Right Surround speaker
6	Main Output LFE (LFE) to Subwoofer
7	Alt (Stereo) Output Left to Alt speaker L
8	Alt (Stereo) Output Right to Alt speaker R

### Main Outputs (LCRS) and Alternate Outputs

*Control Room Out (5.1 Mon Out L:1 R:3)*

Chan	Signal
1	Main Output Left (L) to Left speaker
2	Main Output Center (C) to Center speaker
3	Main Output Right (R) to Right Speaker
4	Main Output Left Surround (Ls) to Surround speaker (or split to 2 Surround speakers)
5	no connection
6	no connection
7	Alt (Stereo) Output Left to Alt speaker L
8	Alt (Stereo) Output Right to Alt speaker R

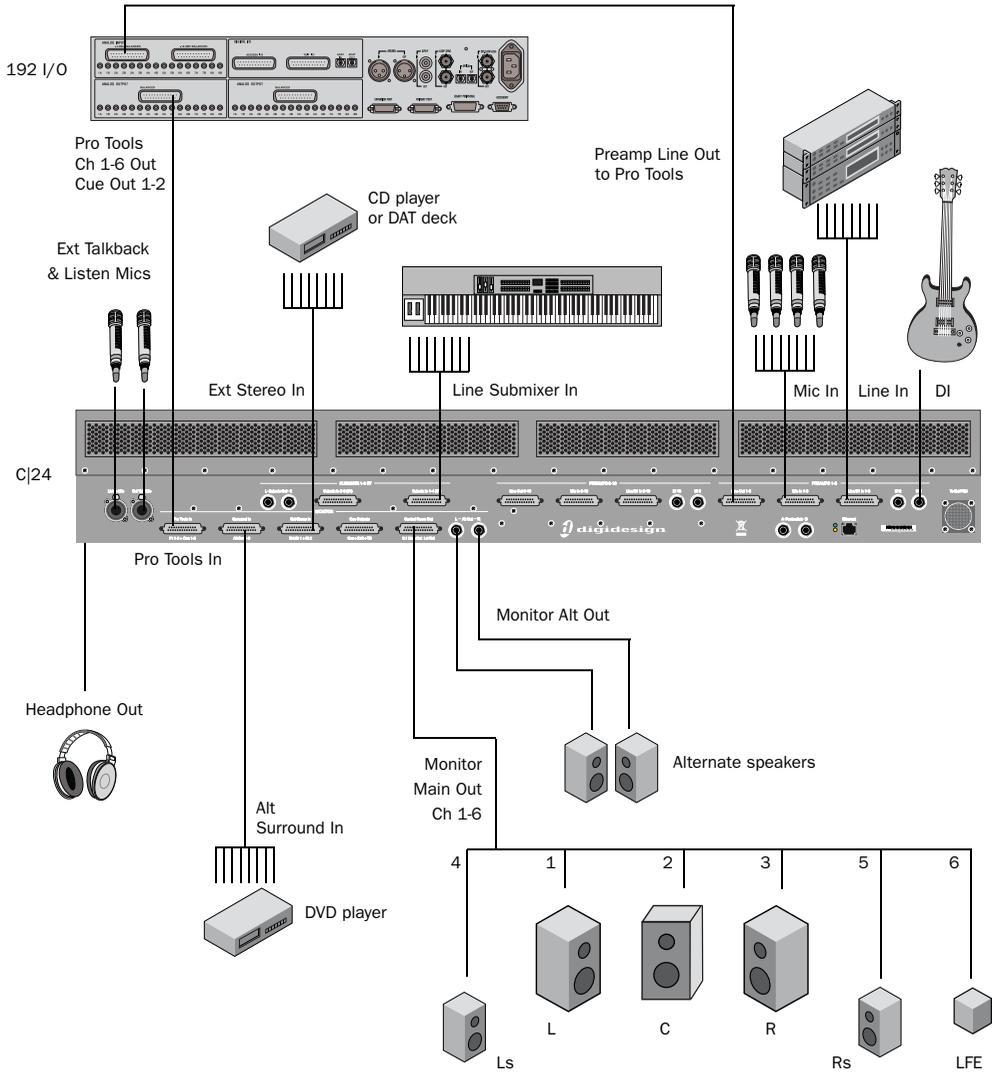
### Alternate Outputs (Stereo)

*Alt Outputs (Alt Out L-R on 1/4-inch TRS connectors)*

Chan	Signal
1	Alt (Stereo) Output Left to Alt speaker L
2	Alt (Stereo) Output Right to Alt speaker R

# 5.1 Surround Studio Connections

## (Example Setup)



Example studio setup with 5.1 surround monitoring





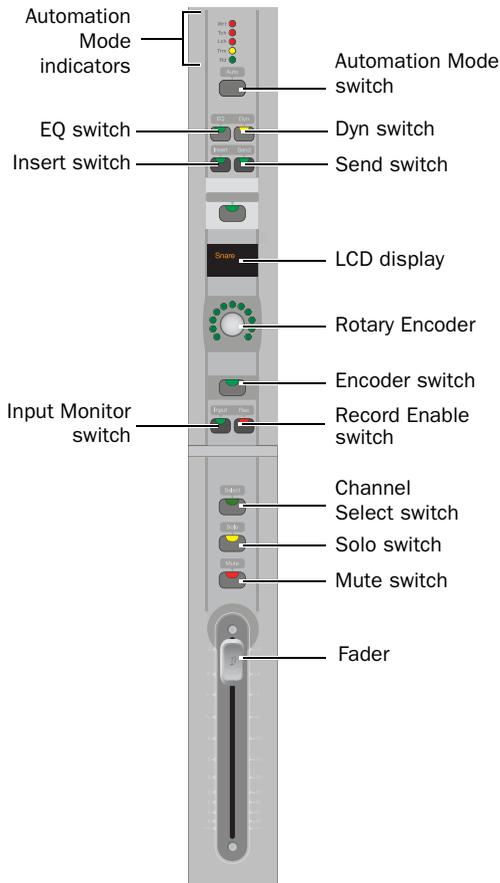
## **Part III: Reference**



# Chapter 6: C|24 Pro Tools Controls

## Fader Section

### Channel Strip



Channel Strip

### Fader

Each channel has a touch-sensitive motorized fader for controlling channel volume in Normal mode and a wide range of parameters in Flip mode. When you are automating a parameter on a fader in Touch mode, touching the fader starts writing automation.

### Mute Switch

The Mute switch toggles mute status for the channel. When a track is muted, its Mute switch lights solid. When a track is implicitly muted (because another track is soloed), its Mute switch flashes.

### Solo Switch

The Solo switch toggles solo status for the channel. When a channel is soloed, the Solo switch lights, and the Mute switches on other channels in the session flash to indicate implicit mute. The Solo switch function follows the Pro Tools Solo Latch options (Latch, X-OR, and Momentary).

**Solo Safe Mode** To solo safe a track, hold the Command/Ctrl Modifier switch and press the track's Solo switch. When a track is solo safed, its Solo switch flashes once.

## Channel Select Switch

The Channel Select switch selects the channel in Pro Tools, and lights when the channel is selected. The Channel Select switch can be set to follow latching or X-OR (non-latching) behavior. See “Console Preferences” on page 47.

## Input Monitor Switch

The function of the Input Monitor switch depends on the type of track displayed in the channel strip.

**Audio Tracks (Pro Tools HD Only)** The Input Monitor switch toggles the input monitoring mode (TrackInput) for the channel between Auto Input and Input Only mode. When the channel is in Input Only mode, the Input Monitor switch lights.

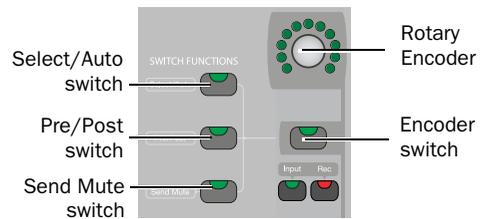
**Instrument Tracks** The Input Monitor switch transfers control of MIDI Volume to the fader, MIDI Pan to the rotary encoder, and MIDI Mute to the channel Mute switch. It also changes Input and Output assign modes to apply to MIDI Inputs and Outputs on the Instrument track. When MIDI controls are displayed on the channel fader and encoder, the Input Monitor switch flashes.

## Record Enable Switch

The Record Enable switch toggles record enable status for the channel. When a track is record-enabled and Pro Tools is idle or playing back, the Record Enable switch flashes. During recording, the Record Enable switch lights continuously.

**Record Safe Mode** To record safe a track, hold the Command/Ctrl Modifier switch and press the track’s Record Enable switch.

## Rotary Encoder Section



### Rotary Encoder section

## Rotary Encoder

Each Channel has a rotary encoder. The function of the rotary encoders depends on the current mode and view.

**Console Views** Rotary encoders control channel pan, send level and assignments, depending on which Console view is enabled (Pan view or Sends view). If your system includes a Digidesign PRE, mic pre level can be controlled from the rotary encoders in Console view.

**Channel View** Rotary encoders control plug-in, pan, send, or plug-in settings and assignments, depending on which Channel view is enabled (Pan/Send view or Insert Select view). If your system includes a Digidesign PRE, most mic pre controls can be accessed in Channel View.

**Flip Mode** Rotary encoders control track Volume or Send pan position when Flip mode is enabled.

## Rotary Encoder LEDs

Each rotary encoder has a ring of 11 LEDs for indicating data values controlled by the encoder. Discrete or stepped information such as pan position or frequency is shown by a single LED. Continuously variable values such as send level, gain, or filter bandwidth are shown by an expanding series of LEDs.

Encoder LED rings can show send level, pan position, and plug-in parameter values. In Flip mode, they can show track level or Send pan position.

## Encoder Switch

The switches under each encoder perform a variety of functions, depending on what is shown in the LCD displays. Functions of the encoder switch include:

- Sends Console view: Toggling Send mute or Send pre/post status
- Pan/Send Channel view: Toggling Send mute or Send pre/post status
- Parameter view: Cycling stepped plug-in parameters, setting up multi-mono plug-in operation
- Mic Pre view: If your system includes a Digidesign PRE, controlling mic pre settings
- Groups view: Selecting Group IDs for new groups, enabling or selecting current Groups
- Soft Keys view: Cycling preferences or performing actions
- Default switch: Setting parameters to their default values
- Window Configuration view: Creating, editing, and recalling Window configurations
- Memory Location view: Creating, editing, and recalling Memory Locations

## Switch Functions Section

The Switch Functions section has three switches that set the function of the encoder switches in certain views.

### Select/Auto Switch

The Select/Auto switch is available only when C|24 is in Parameter view.

**Select** When the Select/Auto switch is unlit, it is in Select mode. In this mode, encoder switches toggle plug-in parameters displayed above the corresponding encoder.

**Auto** When the Select/Auto switch is lit, it is in Auto mode. In this mode, encoder switches do either of the following:

- If Pro Tools is idle or playing back, the encoder switches enable the corresponding plug-in parameters for automation. The switch lights to indicate enabled status.
- If an automation pass is in progress, the encoder switches flash to indicate writing of plug-in automation. You can press a flashing encoder switch to punch the plug-in parameter out of writing.

### Pre/Post Switch

The Pre/Post switch is available only when C|24 is in Sends Console view.

When the Pre/Post switch is lit, the encoder switches toggle the corresponding Send between pre- and post-fader operation. When the encoder switch is unlit, the Send is set to post-fader operation. When the encoder switch is lit, the Send is set to pre-fader operation.

When you hold down the Pre/Post switch, the pre/post status of all Sends is displayed.

### Send Mute Switch

The Send Mute switch is available only when C|24 is in Sends Console view.

When the Send Mute switch is lit, the encoder switches toggle the mute status of the corresponding Send. When the encoder switch is unlit, the Send is not muted. When the encoder switch is lit, the Send is muted.

To view the mute status of all displayed Sends, hold down the Send Mute switch.

## LED Displays



### LED displays and Display Mode switch

The LED displays provide two rows of 6 characters for each channel strip.

## LED Display Mode Switch

### To cycle forward through LED display modes:

- Press the Display Mode switch.

### To cycle backward through the LED display modes:

- Hold the Shift (add) Modifier switch and press the Display Mode switch.

The available display modes depend on the current view.

## Home (Pan Console) View

In Pan Console view, the Display Mode switch cycles through the following channel display modes:

**Name Mode** Shows the track name only on the top row. Volume and Pan values are displayed on the bottom row when the fader is touched or the encoder is moved, according to the TchVal preference.

**Volume Mode** Shows the track name on the top row and track volume on the bottom row.

**Pan Mode** Shows the track name on the top row and track pan on the bottom row.

**Headroom Mode** Shows the track name on the top row and track headroom on the bottom row.

**Mem Loc/Win Cfg Mode** Shows the track name on the top row and available Memory Locations or Window Configurations on the bottom row.

## Sends Console View

In Sends Console view, the Display Mode switch cycles through the following Send display modes:

**Send Path** Shows the track name on the top row and the I/O or bus path for the Send on the bottom row.

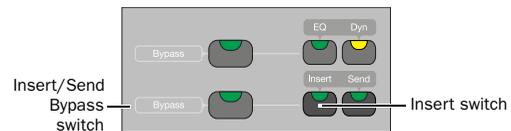
**Send Volume** Shows the track name on the top row and the Send volume on the bottom row.

**Blank** Shows track name only on the top row.

## Channel Information

In any view, you can also press and hold the Display Mode switch to show channel state information, including current view display, LED display data, rotary and fader controls, and plug-in information.

## Insert Switch



### Insert switch

Each channel has an Insert switch that lets you select and view inserts on that channel. The switch lights to indicate that there is at least one non-EQ, non-Dynamics plug-in on the channel.

When you press a lit Insert switch, C|24 enters Insert Select view, and displays the channel's inserts across the LCD displays. From Insert Select view, you can display all the controls of a single plug-in in Parameter view. See "Insert Select View" on page 78 and "Parameter View" on page 80.

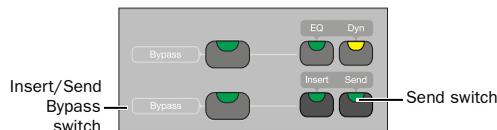
In Parameter view, when you press and hold a lit Insert switch, the LCD displays show information on the currently focused insert.

### Insert/Send Bypass Switch

The Insert and Send Bypass switch changes the function of the Insert switches on all channels, putting them in *Bypass mode*. When the Insert/Send Bypass switch is lit, the Insert switch toggles the Bypass state of all plug-ins on the channel. In Bypass mode, when the plug-ins on a track are bypassed, the track's Insert switch is lit.

See "Bypassing Plug-ins" on page 79.

### Send Switch



#### Send switch

Each channel has a Send switch that lets you select and view Sends on that channel. The switch lights to indicate that there is at least one Send on the channel.

When you press a lit Send switch, C|24 enters Pan/Send Channel view, and displays the channel's Sends across the LCD displays. See "Pan/Send Channel View" on page 73.

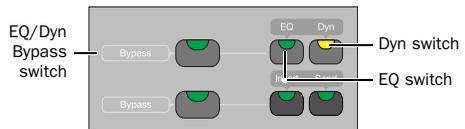
When you double-press a Send switch, C|24 enters Expanded Pan view, and displays the pan controls for a track. See "Expanded Pan View" on page 75.

### Insert/Send Bypass Switch

The Insert and Send Bypass switch changes the function of the Send switches on all channels, putting them in *Bypass mode*. When the Insert/Send Bypass switch is lit, the Send switch toggles the mute status of all Sends on the channel. In Bypass mode, when the sends on a track are muted, the track's Send switch is lit.

See "Muting Sends in Pan/Send Channel View" on page 74.

### EQ and Dynamics Switches



#### EQ and Dynamics switches

Each channel has EQ and Dynamics switches that let you focus any plug-ins of the corresponding type assigned to that channel. The EQ or Dyn switch lights to indicate that there is at least one plug-in of the corresponding type on the channel. When you press a lit EQ or Dyn switch, C|24 enters Parameter view, and displays the plug-in's controls across the LCD displays. See "Viewing EQ and Dynamics Plug-ins" on page 81.

In Parameter view, when you press and hold a lit EQ or Dyn switch, the LCD displays show information on the currently focused plug-in.

## EQ and Dynamics Bypass Switch

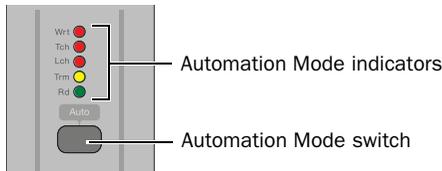
The EQ and Dynamics Bypass switch changes the function of the EQ and Dynamics switches on all channels, putting them in *Bypass mode*.

**EQ Switch** When the EQ and Dyn Bypass switch is lit, the EQ switch toggles the Bypass state of all EQ plug-ins on the channel. In Bypass mode, when the EQ plug-ins on a track are bypassed, the track's EQ switch is lit.

**Dynamics Switch** When the EQ and Dyn Bypass switch is lit, the Dyn switch toggles the Bypass state of all Dynamics plug-ins on the channel. In Bypass mode, when the Dynamics plug-ins on a track are bypassed, the track's Dyn switch is lit.

See “Bypassing EQ and Dynamics Plug-ins” on page 81.

## Channel Automation Mode Switch and Indicators



### Automation Mode switch and indicators

Each channel has an Automation Mode switch and series of Automation Mode indicators (Write, Touch, Latch, Trim and Read).

The Automation Mode switch cycles the channel through the following Pro Tools automation modes:

- Write
- Touch
- Latch
- Touch/Latch (Pro Tools HD only)
- Read
- Off

See “Working with Automation” on page 103.

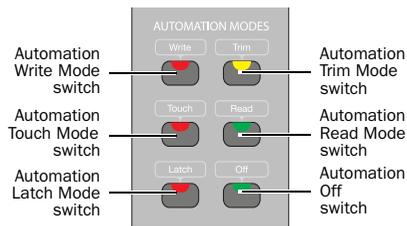
The Automation Mode switch lets you cycle the channel through Touch, Latch, Touch/Latch, Read and Off modes during playback, but it prevents you from entering Write mode during playback. To directly enter Write mode during playback, use the Global Automation Mode switch (See “Automation Mode Switches” on page 42.)

When in Write mode, the corresponding indicator flashes at all times. When in Touch, Latch, or Touch/Latch modes, the corresponding indicator lights until automation writing begins. When automation writing begins on the channel, the indicator flashes. If automation is turned off for the channel (Off), none of the indicators is lit.

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## Global Automation Switches

### Automation Mode Switches



### Automation Mode switches

The Automation Mode switches are used to display and set automation modes. These switches light to indicate that at least one channel is in that automation mode. If multiple channels are selected and set to different automation modes, all applicable mode switches are lit.

The Automation Mode switches mirror the function of the on-screen Automation Mode selector for each track, and let you change automation modes of channels during playback.

See “Working with Automation” on page 103.

**Write Switch** Indicates or sets the automation mode of a track to Write mode.

**Touch Switch** Indicates or sets the automation mode of a track to Touch mode.

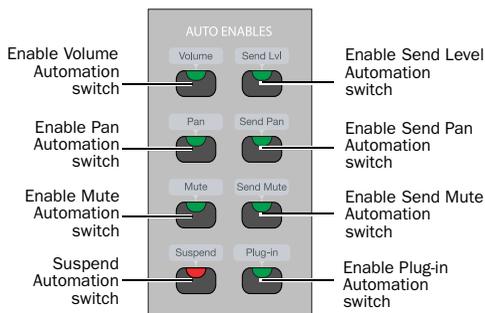
**Latch Switch** Indicates or sets the automation mode of a track to Latch mode.

**Trim Switch (Pro Tools HD Only)** Indicates or sets the automation mode of a track to Trim mode.

**Read Switch** Indicates or sets the automation mode of a track to Read mode.

**Off Switch** Sets the automation mode of a track to Off.

## Automation Enable Switches



### Automation Enable switches

The Automation Enable switches are used to enable or suspend writing of each type of automation on all channels. The Automation Enable switches mirror the function of the corresponding buttons in the Automation window.

When writing is enabled for an automation type but it is not currently writing on any track in the session, the corresponding switch lights solid. When writing is enabled for an automation type and it is currently writing on any track in the session, the corresponding switch flashes.

**Volume Switch** Enables and suspends writing of channel volume automation on all tracks in the session.

**Pan Switch** Enables and suspends writing of channel pan automation on all tracks in the session.

**Mute Switch** Enables and suspends writing of channel mute automation on all tracks in the session.

**Send Level Switch** Enables and suspends writing of send level automation on all tracks in the session.

**Send Pan Switch** Enables and suspends writing of send pan automation on all tracks in the session.

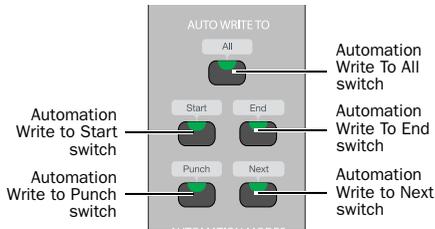
**Send Mute Switch** Enables and suspends writing of send mute automation on all channels.

**Plug-in Switch** Enables and suspends writing of automation for any automation-enabled plug-in parameters on all tracks in the session.

**Suspend Switch** Suspends writing and playback of all automation in the session.

## Automation Write To Switches

(Pro Tools HD Only)



### Automation Write To switches

The Automation Write To switches invoke the manual “Write to Start/End/All/Punch” commands and the automatic “Write to Start/End/All/Punch on Stop” automation commands in Pro Tools. These switches mirror the function of the corresponding buttons in the Automation window.

See “Working with Automation” on page 103.

**All Switch** Writes the current automation value of all write-enabled parameters to an entire selection or track when performing an automation pass.

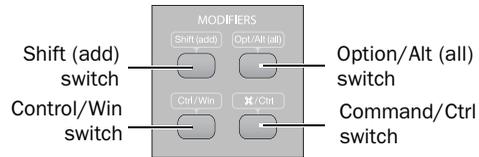
**Start Switch** Writes the current automation value of all write-enabled parameters to the start of a selection or track when performing an automation pass.

**End Switch** Writes the current automation value of all write-enabled parameters to the end of a selection or track when performing an automation pass.

**Punch Switch** Writes the current automation value of all write-enabled parameters back to the punch point (the location in the track where the current automation pass started).

**Next Switch** Writes the current automation value of all write-enabled parameters forward to the next automation breakpoint.

## Modifier Switches



### Modifier switches

The Modifier keys duplicate the function of the Pro Tools computer keyboard modifiers.

#### Shift (add) Switch (Mac and Windows)

The Shift (add) Modifier switch duplicates the function of the Shift key on the computer keyboard.

#### Control (Mac) or Win (Windows) Switch

The Ctrl/Win Modifier switch duplicates the function of the Control key (Mac) or the Windows key, also called the Start key, (Windows) on the computer keyboard.

#### Option (Mac) or Alt (Windows) Switch

The Opt/Alt (all) Modifier switch duplicates the function of the Option key (Mac) or the Alt key (Windows) on the computer keyboard.

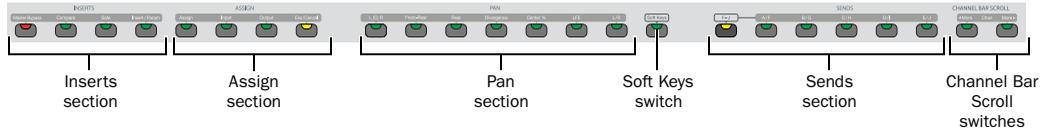
#### Command (Mac) or Control (Windows) Switch

The Command/Ctrl Modifier switch duplicates the function of the Command key (Mac) or the Control (Windows) key on the computer keyboard.

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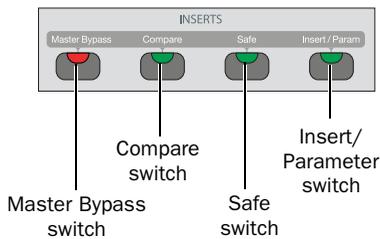
## Channel Bar

The Channel Bar spans the center of the Fader section of C|24, and includes controls for inserts, channel assignments, pan display, send display, and Soft Key functions.



*Channel Bar*

### Inserts Section



*Inserts section of the Channel Bar*

#### Master Bypass Switch

The Master Bypass switch bypasses plug-ins in one of two ways, depending on the current view.

**Insert Select View** The Master Bypass switch bypasses all plug-ins on the focused channel.

**Parameter View** The Master Bypass switch bypasses only the plug-in currently shown in the LCD displays.

The Master Bypass switch lights to indicate that the currently displayed plug-in is bypassed. The Master Bypass switch flashes to indicate that at least one channel of a currently displayed multi-mono plug-in is bypassed.

#### Compare Switch

The Compare switch lets you compare any plug-in changes to the currently loaded plug-in settings. This mirrors the function of the Compare button in Pro Tools plug-in windows. The Compare switch lights to indicate that controls on a plug-in have been changed but not saved as a preset.

#### Safe Switch

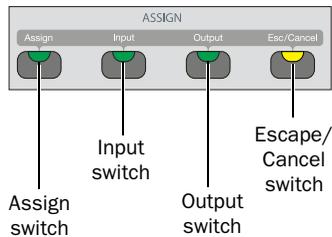
The Safe switch enables plug-in automation safe mode for the currently displayed plug-in. The Safe switch lights when an automation safed plug-in is focused.

#### Insert/Parameter Switch

The Insert/Parameter switch toggles the C|24 view between Insert Select view and Parameter view, and accesses multi-mono plug-in setup page. When an insert's parameters are shown in the LCD displays, the Insert/Param switch lights.

See “Parameter View” on page 80 and “Setting Up Multi-mono Plug-ins” on page 81.

## Assign Section



*Assign section of the Channel Bar*

### Assign Switch

The Assign switch puts C|24 into Assign mode, which lets you assign inputs, outputs, inserts, and sends from the rotary encoders.

See “Assign Mode” on page 87.

### Input and Output Switches

The Input and Output switches display channel input and output pathnames in the bottom row of the LCD displays.

In Assign mode, the Input and Output switches bring the inputs and outputs to the rotary encoders for assignment.

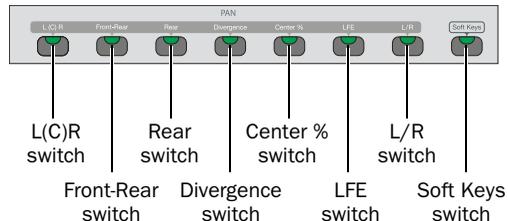
### Escape/Cancel Switch

The Escape/Cancel switch is used to exit modes and to cancel operations or on-screen dialogs.

When an action has occurred that can be exited or canceled with the Escape/Cancel switch, the switch flashes.

## Pan Section

When in Pan Console view or Pan/Send Channel view, the switches in the Pan section determine which pan controls are assigned to the channel encoders. The corresponding pan, divergence, or percentage values are shown in the LCD displays.



*Pan section of the Channel Bar*

### L(C)R Switch

The L(C)R switch assigns Left-Right pan (stereo tracks) or Front pan (multichannel tracks) to the encoder. When the Divergence switch is lit, this switch assigns Front divergence control to the encoder.

### Front-Rear Switch

The Front-Rear switch assigns Front-Rear pan to the encoder. When the Divergence switch is lit, this switch assigns Front-Rear divergence control to the encoder.

### Rear Switch

The Rear switch assigns Rear pan to the encoder. When the Divergence switch is lit, this switch assigns Rear divergence control to the encoder.

### Divergence Switch

The Divergence switch puts the L(C)R, Front-Rear, and Rear switches into Divergence mode, which lets you adjust divergence for the corresponding parameters.

## Center Percentage Switch

The Center Percentage (%) switch assigns the Center Percentage parameter to the encoder.

## LFE Switch

The LFE switch assigns LFE volume control to the encoder.

## L/R Switch

The L/R switch toggles display of the Left and Right pan control on the track's encoder. When L/R switch is unlit, the track pan controls the Left pan control (stereo tracks). When L/R switch is lit, the track pan controls the Right pan control (stereo tracks).

## Soft Keys Switch

The Soft Keys switch provides access to C|24 preferences, Pro Tools actions and Automation preferences directly from the LCD displays.

### To set a preference or action from the Soft Keys:

- 1 Press the Soft Keys switch.
- 2 Press the encoder switch that corresponds to the displayed item to cycle the preference setting or perform the command.
- 3 Press the Soft Keys switch to exit.



*You can exit Soft Keys directly by entering any other view or mode on C|24, except for Master Faders mode. The Masters switch does not exit Soft Keys.*

The following console preferences, actions and automation preferences are available:

## Console Preferences

**Faders (Faders On/Off)** Temporarily turns off C|24 faders to prevent fader movement when monitoring a mix.

**TchVal (Touch Display of Parameter Values)** Determines the temporary display of control parameter values on a track when its fader is touched or its encoder is moved. TchVal can be set to the following:

- On: All parameter values display when a control is touched
- Off: Touch has no effect
- NoVol: All parameter values except volume values display when a control is touched

**Select (Select Switch Latch Mode)** Determines whether channel Select switches follow latching or X-OR (non-latching) behavior.

- ◆ When this preference is set to “Latch,” channel Select buttons will latch on when pressed.
- ◆ When this preference is set to “X-OR,” pressing a channel Select switches disables other channel Select switches. To select multiple channels in X-OR mode, press and hold multiple Select switches.

**TkDsp (Track Display)** Cycles the display of track names in the Console views to include Name (name only), Number (track position number and an abbreviated name), or Grp ID (Group ID letter and an abbreviated track name).

**ChanWn (Channel Window Display)** Determines whether displaying plug-in or send parameters opens the corresponding plug-in or send window on-screen in Pro Tools.

◆ When this preference is set to “Yes,” the on-screen display of plug-in and send windows changes to reflect the state of the control surface.

◆ When this preference is set to “No,” the on-screen display of plug-in and send windows does not change to reflect the state of the control surface.

**2KbPan (Two-Knob Panning) (Pro Tools HD Only)**

Toggles linking of front and rear pan controls in surround panner windows to facilitate left-right motion in the surround field.

## Actions

**(Pro Tools HD Only)**

**Prview (Preview)** Puts Pro Tools in Preview mode.

**PchPrv (Punch Preview)** Executes the Punch Preview command.

**SusPrv (Preview Suspend)** Suspends Preview mode.

**Captre (Capture)** Executes the Capture command.

**PchCap (Punch Capture)** Executes the Punch Capture command.

**Join** Executes the Join command.

## Automation Preferences

**(Pro Tools HD Only)**

**AutoJn (Auto Join)** Sets tracks in Latch mode to automatically resume writing of automation after the transport is stopped and started again during an automation pass.

**LchStp (Allow Latch Prime in Stop)** Toggles the Allow Latch Prime in Stop preference, which allows tracks in Latch mode to be primed for writing automation while the transport is stopped.

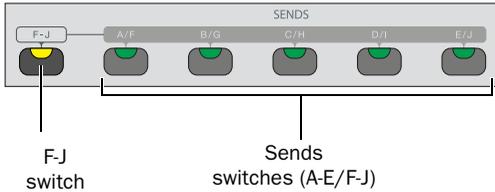
**ColVCA (Coalesce when Removing Slaves from VCA Group)** Toggles the preference that automatically coalesces automation to slave track when they are removed from a VCA-controlled group.

**ColTrm (Coalesce Trim Automation)** Sets the preference that determines when Trim automation is coalesced. The preference settings are as follows:

- EveryP: After Every Pass
- OnExit: On Exiting Trim Mode
- Manual: Manually

## Sends Section

The Sends section switches are used in Console view to focus sends in the LCD displays. Send volume is controlled by the encoders.



*Sends section of the Channel Bar*

### F-J switch

The F-J switch selects the bank of Sends accessible from the Sends switches.

When the F-J switch is off, the Sends switches control Sends A through E. When the F-J switch is on, the Sends switches control Sends F through J.

### Sends Switches

The Sends switches (A-E, F-J) are used to focus a single Send position in the LCD displays, across all tracks. The switches light to indicate the currently focused Send.

## Channel Bar Scroll Switches

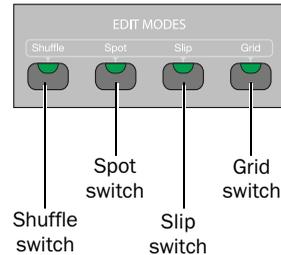
The Channel Bar Scroll switches are used to bank the display of parameters, sends, memory locations, window configurations, or groups in the LCD displays.

The Channel Bar Scroll switches light when additional parameters are available in the corresponding direction.

---

## Miscellaneous Controls

### Edit Mode Switches



*Edit Mode switches*

The Edit Mode switches place Pro Tools directly in the corresponding Edit mode. The switch lights to indicate the current mode.

**Shuffle Switch** Places Pro Tools in Shuffle mode.

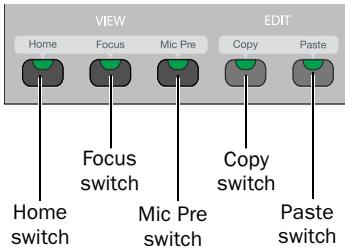
**Spot Switch** Places Pro Tools in Spot mode.

**Slip Switch** Places Pro Tools in Slip mode.

**Grid Switch** Toggles Pro Tools between Absolute and Relative Grid mode.

See “Selecting Edit Tools” on page 101.

## View and Edit Switches



*View and Edit switches*

### View Switches

#### Home Switch

The Home switch puts C|24 into Pan/Console view, which is the default view. In this view, faders control channel volume, rotary encoders control channel pan.

See “Pan Console View” on page 71.

#### Focus Switch

The Focus switch returns C|24 to the previously focused view (Parameter view, Expanded Send view, Expanded Pan view, or Mic Pre view) after you change to a Console view. The Focus switch lights to indicate that it is possible to return to a focused view.

#### Mic Pre Switch

The Mic Pre switch toggles C|24 into Mic Pre view, which shows the controls of any connected Digidesign PRE.

See “Mic Pre View” on page 82.

### Edit Switches

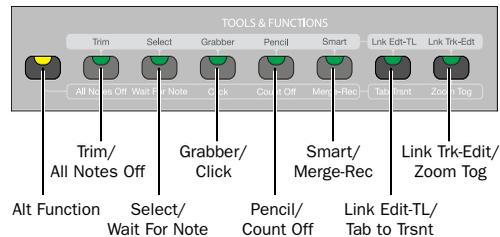
The Edit switches directly execute the corresponding command in Pro Tools. The switches light to indicate which functions are available.

#### Copy and Paste Switches

The Copy and Paste switches carry out the Copy and Paste commands in the Pro Tools Edit menu.

See “Cutting and Pasting” on page 101.

### Tools & Functions Switches



*Tools and Functions switches*

#### Alternate Function Switch

The Alternate Function switch selects the top or bottom command for the dual-function switches in this section.

◆ When the Alternate Function switch is off, the top function is active for all switches in this section.

◆ When the Alternate Function switch is on, the bottom function is active for all switches in this section.

#### Edit Tools

**Trim** Selects the Trim tool and cycles through the versions of the tool.

**Select** Selects the Selector tool.

**Grabber** Selects the Grabber tool and cycles through the versions of the tool.

**Pencil** Selects the Pencil tool and cycles through the versions of the tool.

**Smart** Selects the Smart Tool.

The Smart Tool can also be selected by simultaneously pressing any combination of the Trim, Select, and Grabber switches.

## Link Edit and Timeline

The Link Edit and Timeline switch toggles the Link Timeline and Edit Selection option. The switch lights when the option is selected.

## Link Track and Edit Selection

The Link Track and Edit Selection switch toggles the Link Track and Edit Selection option. The switch lights when the option is selected.

## MIDI Commands and Controls

**All Notes Off** Executes the All MIDI Notes Off command.

**Wait For Note** Enables Wait for Note in the Transport window. The switch lights when Wait for Note is enabled.

**Click** Enables the Metronome Click in the Transport window. The switch lights when Metronome Click is enabled.

**Count Off** Enables the Countoff in the Transport window. The switch lights when Countoff is enabled.

**Merge-Record** Enables MIDI Merge recording in the Transport window. The switch lights when MIDI Merge is enabled.

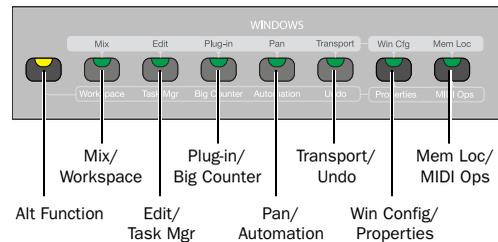
## Tab to Transients

The Tab to Transients switch toggles the Tab to Transients option. The switch lights when the option is selected.

## Zoom Toggle

The Zoom Toggle switch controls the Zoom Toggle state. The switch lights when Zoom Toggle is enabled.

## Window Switches



### Window switches

## Alternate Function Switch

The Alternate Function switch selects the top or bottom command for the dual-function switches in this section.

- ◆ When the Alternate Function switch is off, the top function is active for all switches in this section.
- ◆ When the Alternate Function switch is on, the bottom function is active for all switches in this section.

## Pro Tools Windows

**Mix** Opens the Mix Window or brings it to the front.

**Edit** Opens the Edit Window or brings it to the front.

**Plug-in** Opens and closes the window for the currently focused plug-in.

**Pan** Opens and closes the window for the currently focused pan controls.

**Transport** The Transport switch opens and closes the Transport window, and lets you show/hide sections of the Transport window. See “Displaying the Transport Window” on page 94.

**Window Configuration** The Window Configuration (Win Cfg) switch opens and closes the Window Configuration list and lets you display and select Window Configurations in the LCD displays. See “Window Configuration View” on page 84.

**Memory Locations** The Memory Locations (Mem Loc) switch opens and closes the Memory Locations window and lets you display and select Memory Locations in the LCD displays. See “Memory Location View” on page 85.

**Workspace** The Workspace switch opens and closes the DigiBase Workspace Browser.

**Task Manager** The Task Manager (Task Mgr) switch opens and closes the DigiBase Task Manager window.

**Big Counter** The Big Counter switch opens and closes the Big Counter window.

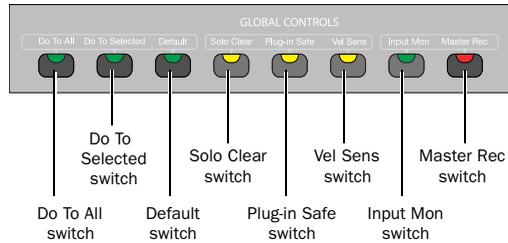
**Automation** The Automation switch opens and closes the Automation window.

**Undo** The Undo switch opens and closes the Undo History window.

**Properties** The Properties switch opens and closes the MIDI Real-Time Properties window.

**MIDI Operations** The MIDI Operations switch opens and closes the MIDI Operations window.

## Global Controls



### Global controls

#### Do To All and Do To Selected Switches

The Do To All and the Do To Selected switches are used to apply actions to multiple tracks in a Pro Tools session.

The Do To All and Do To Selected switches can follow momentary or latching behavior.

- ◆ When single-pressed, their effect applies only to the next operation.
- ◆ When held, they apply to all operations carried out while being held.
- ◆ When double-pressed, they latch on and flash until pressed a second time.

#### Default Switch

The Default switch is used to reset displayed parameters to their default values.

The Default switch can follow momentary or latching behavior. When single-pressed, its effect applies only to the next operation. When double-pressed, it latches on and flashes until pressed a second time.

## Solo Clear Switch

The Solo Clear switch clears all latched Solo switches in the session. This switch flashes when any channel is soloed.

## Plug-in Safe Switch

The Plug-In Safe switch enables plug-in automation safe mode for the currently focused plug-in. This switch is lit when an automation safe plug-in is focused.

## Velocity Sensitive Switch

The Velocity Sensitive (Vel Sens) switch toggles all Rotary Encoders between fixed-velocity mode and velocity sensitive mode, where the responsiveness of the encoder is proportional to the speed of rotation.

## Input Monitor Switch

### Pro Tools HD

In Pro Tools HD, the Input Monitor switch toggles the Input Monitor option between “Set Record Tracks to Auto Input” and “Set Record Tracks to To Input Only” on all record-enabled tracks.

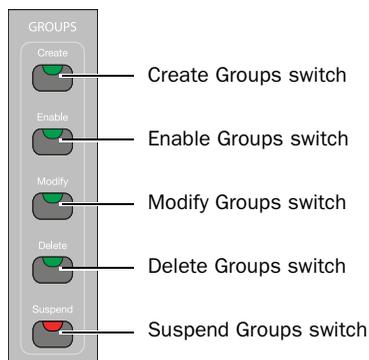
### Pro Tools LE

In Pro Tools LE, the Input Monitor switch toggles Pro Tools between Input Only Monitoring and Auto Input Monitoring.

## Master Record Enable Switch

The Master Record Enable switch toggles record enable status for all applicable audio tracks in a session. This switch flashes when channels are record-enabled and the Pro Tools transport is stopped, and lights continuously during recording.

## Groups



### Groups switches

## Create Switch

The Create switch lets you use C|24 to select a Group ID and select tracks to create new Mix/Edit Groups. See “Creating Groups” on page 83.

## Enable Switch

The Enable switch lets you toggle the enabled status of current groups. See “Enabling and Suspending Groups” on page 83.

## Modify Switch

The Modify switch lets you use C|24 to modify Mix/Edit groups. See “Modifying Groups” on page 84.

## Delete Switch

The Delete switch executes the Delete Groups command. See “Deleting Groups” on page 84.

 *Deleting groups cannot be undone.*

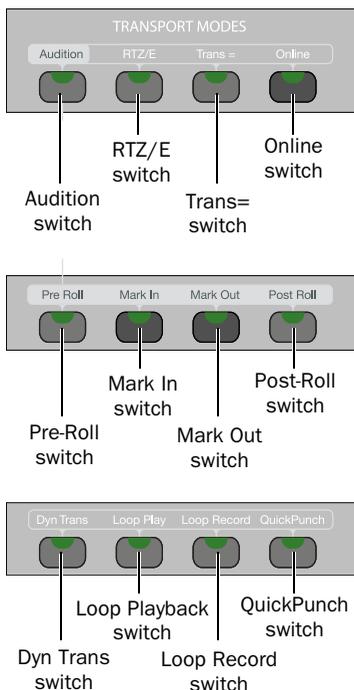
## Suspend Switch

The Suspend switch suspends all groups in the session.

---

# Transport and Navigation Controls

## Transport Mode Switches



### Transport Mode switches

#### Audition Switch

The Audition switch toggles Audition mode on and off. When Audition mode is on, this switch lights.

In Audition mode, you can listen to either the start or end of a selection, with or without pre-roll or post-roll, by pressing the following switches:

**Pre-Roll Switch** Plays audio starting at the pre-roll point up to the beginning of the selection.

**Mark In Switch** Plays audio starting at the selection start through the length of the post-roll amount.

**Mark Out Switch** Plays audio back-timed from the selection end by the pre-roll amount.

**Post-Roll Switch** Plays audio starting at the end of a selection through the post-roll amount.

#### Return to Zero/Go To End Switch

The Return to Zero/Go To End switch locates the cursor to the beginning or the end of the session. See “Navigating with the Transport” on page 99.

#### Transport Master Switch

The Transport Master (Transport =) switch cycles the Transport Master through the available options, which can include Pro Tools, Machine, MMC, or Remote. The Transport Equals switch lights when the Transport Master is set to Machine, MMC, or Remote.

#### Online Switch

The Online switch toggles the Pro Tools transport online status when triggering playback from an external source. The Online switch flashes when the transport is waiting for sync, and lights to indicate that the transport is online.

#### Pre-Roll and Post-Roll Switches

The Pre-Roll and Post-Roll switches toggle the enable status of pre-roll and post-roll in the Pro Tools transport. The Pre-Roll and Post-Roll switches light to indicate they are enabled.

In Audition mode, the Pre-Roll and Post-Roll switches activate playback of various parts of an edit selection. See “Audition Switch” on page 54.

### Mark In and Mark Out Switches

In Audition mode, the Mark In and Mark Out switches activate playback of various parts of an edit selection, and in conjunction with the Scrub/Shuttle wheel, let you create selections. See “Selecting Audio” on page 99.

### Dynamic Transport Switch

The Dynamic Transport switch toggles Dynamic Transport mode on and off.

### Loop Playback Switch

The Loop Playback switch toggles Loop Playback mode on and off. The Loop Playback state is mirrored in the Play button in the Pro Tools Transport window. When Loop Playback mode is active, this switch lights.

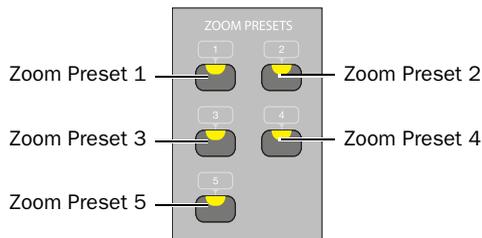
### Loop Record Switch

The Loop Record switch toggles Loop Record mode on and off. The Loop Record state is mirrored in the Record button in the Pro Tools Transport window. When Loop Record mode is active, this switch lights.

### QuickPunch Switch

The QuickPunch switch toggles QuickPunch record mode on and off. When QuickPunch mode is active, this switch lights. The QuickPunch state is mirrored in the Record button in the Pro Tools Transport window.

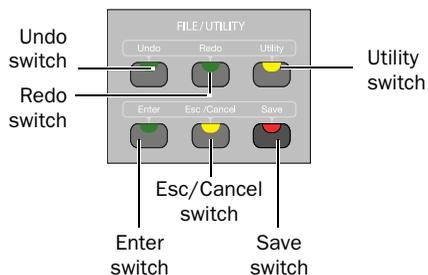
## Zoom Preset Switches



*Zoom Preset switches*

The Zoom Preset switches let you set and recall the five horizontal Zoom presets in Pro Tools.

## File/Utility Switches



*File/Utility switches*

### Undo Switch

The Undo switch executes the Undo command in Pro Tools.

### Redo Switch

The Redo switch executes the Redo command in Pro Tools.

### Utility Switch

The Utility switch places C|24 in Utility mode. When C|24 is in Utility mode, this switch flashes.

Utility mode lets you view C|24 system information, run diagnostic tests, and set certain C|24 preferences. For complete information, see Appendix B, “Utility Mode.”

## Enter Switch

The Enter switch is used to confirm operations, and is equivalent to clicking OK in Pro Tools dialogs.

The Enter switch is also used to create new Memory Locations, and is equivalent to the Enter key on the computer numeric keypad.

## Esc/Cancel Switch

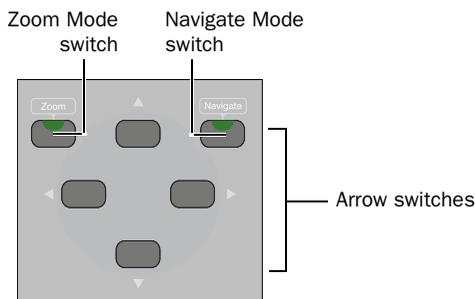
The Escape/Cancel switch is used to exit modes and to cancel operations or on-screen dialogs.

When an action has occurred that can be exited or canceled with the Escape/Cancel switch, the switch flashes.

## Save Switch

The Save switch executes the Save Session command in Pro Tools. Whenever a change is made in a session and the Save command is available, this switch lights.

## Zoom/Navigate Switches



*Zoom/Navigate switches*

## Zoom Switch

The Zoom switch puts the Arrow switches in Zoom mode.

## Navigate Switch

The Navigate switch puts the Arrow switches in Navigate mode.

## Arrow Switches

The function of the Arrow switches depends on the current mode.

**Zoom Mode** In Zoom Mode, the Up and Down Arrow switches change the vertical zoom and the Previous (Left) and Next (Right) Arrow switches change the horizontal zoom in the Pro Tools Edit window.

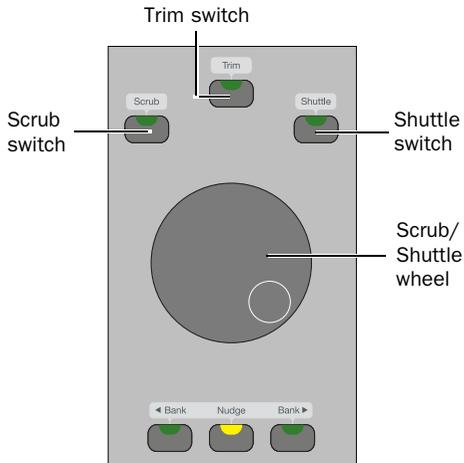
**Navigate Mode** In Navigate mode, the Up and Down Arrow switches move the edit cursor or selection up and down among tracks, and the Previous (Left) and Next (Right) Arrow switches move the edit cursor left and right among region boundaries or transients (according to the Tab to Transients setting).

**Pro Tools Window Text Entry** In both Zoom or Navigate modes, the Arrow switches can be used to navigate on-screen text fields.

**Dialog Box Navigation** In Pro Tools, the Arrow switches can be used to navigate through folders in dialog boxes such as the Open Session dialog.

**Edit Window Navigation** In the Edit window, the Arrow switches let you page the Edit window forward and backward.

## Scrub/Shuttle Controls



*Scrub/Shuttle controls*

### Scrub/Shuttle Wheel

The Scrub/Shuttle wheel is used for cursor location, scrubbing, zooming, window navigation, and banking faders.

### Scrub Switch

The Scrub switch places the transport in Scrub mode, which lets you scrub from the cursor position or across a selection.

### Trim Switch

#### (Pro Tools HD Only)

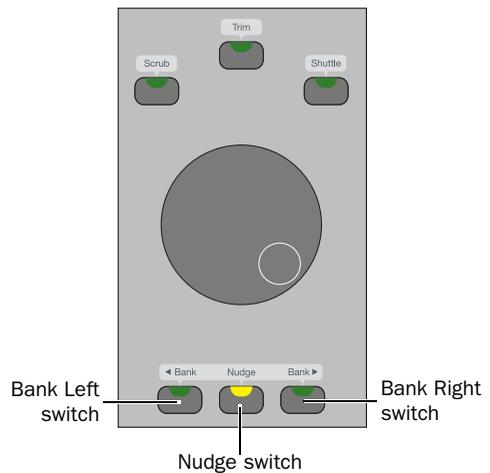
The Trim switch places the transport in Trim/Scrub mode, which lets you scrub to locate an edit point, then trim to that point.

### Shuttle Switch

#### (Pro Tools HD Only)

The Shuttle switch places the transport in Shuttle mode, which lets you scrub at several times normal speed.

## Bank/Nudge Switches



*Bank/Nudge switches*

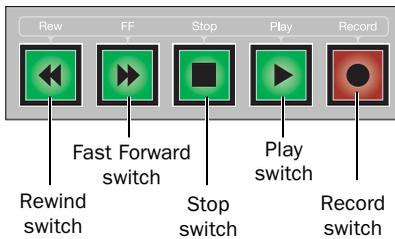
### Bank Switches

The Bank switches move the display of tracks on C|24 to the left or to the right 24 channels at a time. If the “Mix/Edit Window Follows Bank Selection” option is selected, the Pro Tools on-screen display moves to mirror the track display on C|24.

### Nudge Switch

The Nudge switch, used with the Bank switches, moves the display of tracks on C|24 to the left or to the right one channel at a time. If the “Mix/Edit Window Follows Bank Selection” option is selected, the Pro Tools on-screen display moves to mirror the track display on C|24.

## Transport Switches



### Transport switches

The C|24 Transport switches correspond to the buttons in the Pro Tools Transport window.

**Rewind Switch** Moves backward through the Pro Tools session beginning from the current cursor position, as long as the switch is held.

**Fast Forward Switch** Moves forward through the Pro Tools session beginning from the current cursor position, as long as the switch is held.

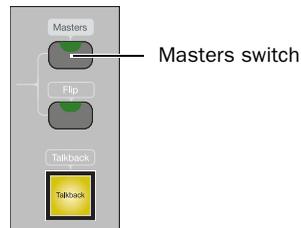
**Stop Switch** Stops playback of the Pro Tools session.

**Play Switch** Begins playback of the Pro Tools session from the current cursor position.

**Record Switch** Arms Pro Tools for recording. The exact function depends on the current Pro Tools record mode (QuickPunch, TrackPunch, Wait for Note, Pause).

See “Navigating with the Transport” on page 99.

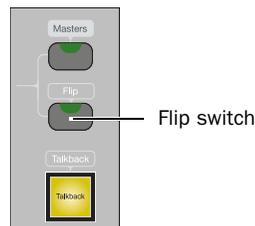
## Masters Switch



### Masters switch

The Masters switch cycles temporary display of Master Fader tracks and VCA Master tracks (Pro Tools HD only) to the right side of the C|24 faders. The Masters switch flashes to indicate display of Master Faders or VCA Master tracks.

## Flip Switch



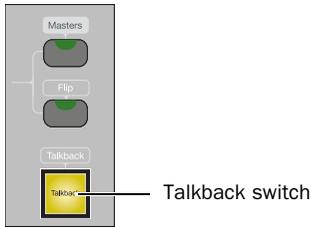
### Flip switch

The Flip switch invokes Flip mode. Flip mode transfers control assignments from rotary encoders to the channel faders, which lets you use the touch-sensitive faders to edit and automate pan, send, PRE, and plug-in parameter values. The Flip switch flashes to indicate Flip mode.

You can enter Assign mode while in Flip mode, and use the faders (instead of the encoders) to scroll through lists when assigning inputs, outputs, inserts and sends.

See “Flip Modes” on page 86.

## Talkback Switch



### Talkback switch

The Talkback switch activates the Talkback microphone. The Talkback switch lights to indicate that Talkback is active. Talkback signal is summed with the Cue inputs and also sent to the Slate output. For more information on Talkback signal routing, see “Monitor Section” on page 23.

Talkback level is set with the Talkback controls in the Monitor section. See “Talkback Level Knob and Switch” on page 63.

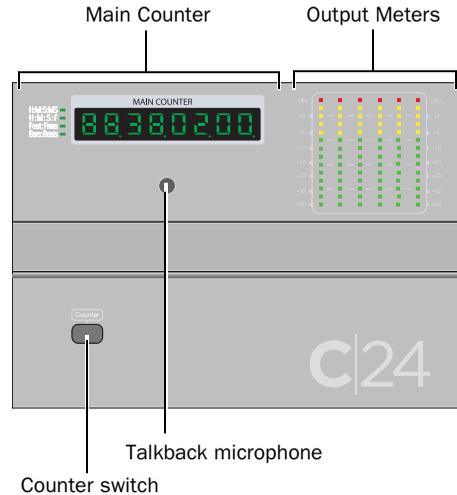
You can set Talkback to stay on only when held, or to latch on if rapidly double-pressed. See “Talkback Latching” on page 116.

You can set the Talkback and Listen microphones to turn on automatically when the Pro Tools Transport is stopped, and turn off when the Pro Tools Transport is running. See “Auto Talkback” on page 120.

In addition to the Talkback switch, you can control Talkback with a footswitch connected to C|24. See “Footswitch Connectors” on page 11 and “Footswitch Function and Polarity” on page 117.

## Meter Bridge

### Meters and Counter Display



### Main Counter and Output Meters

#### Output Meters

The right side of the C|24 meter bridge has a group of six 14-segment LED bar graph meters for displaying output levels.

#### Stereo Output

In a standard configuration, the Output meters show stereo output on channels 1 and 3.

#### Multichannel Output (Pro Tools HD Only)

The Output meters show multichannel output up to 5.1 Surround. The meters always display output in this order: L, C, R, Ls, Rs, LFE.

#### Main Counter

The Main Counter mirrors the display of the Main Time Scale in Pro Tools.

## Time Display Format Indicators

The indicator to the left of the Main Counter shows the currently displayed time scale format. Formats include:

- Hours:Minutes:Seconds:Milliseconds
- Hours:Minutes:Seconds:Frames
- Feet+Frames
- Bars|Beats
- Samples (all indicators off)

## Counter Switch

The Counter switch cycles the Main Counter on C|24 (and on-screen in Pro Tools) through the time scale formats currently displayed in the Pro Tools Edit window.

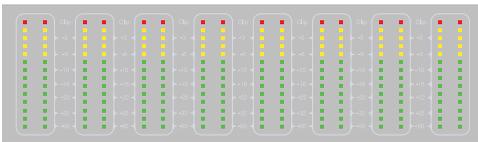
**To cycle the Main Counter through all time formats:**

- Hold Option/Alt (all) while pressing the Counter switch.

## Talkback Microphone

The C|24 built-in Talkback microphone is activated by the Talkback switch. The output for the built-in Talkback microphone appears in the Cue Outputs connectors.

## Channel Meters

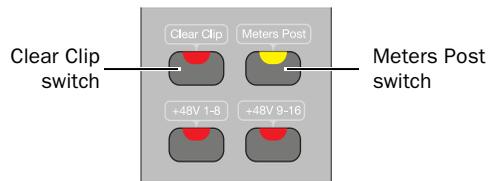


*Channel Meters*

The left side of the C|24 meter bridge has 24 pairs of 14-segment LED bar graphs for displaying track levels. These meters can display pre- or post-fader levels, depending on the state of the Meters Post switch.

Mono tracks use only the left side of the LED pair on a channel. Stereo and multichannel (Pro Tools HD only) tracks use both sides of the LED pair on a channel.

## Meter Controls



*Clear Clip switch and Meters Post switch*

## Clear Clip Switch

The Clear Clip switch on the left-hand side of C|24 clears clip indications on all channel and output meters on C|24 and all meters in Pro Tools, and in Pro Tools HD, any plug-in clip indications. The Clear Clip switch lights to indicate clipping anywhere in the Pro Tools session.

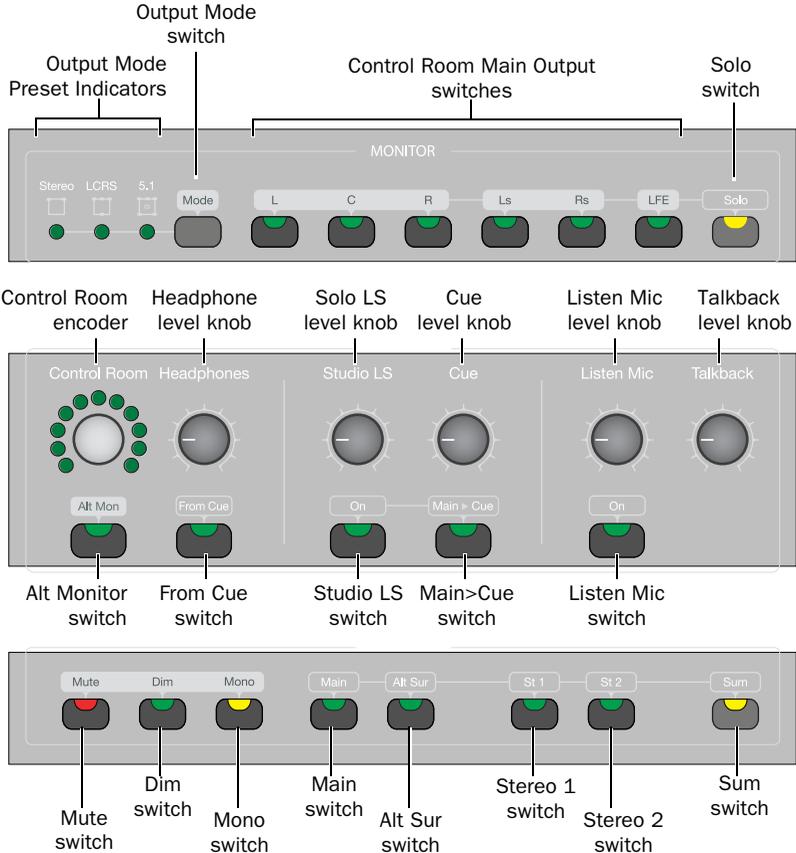
## Meters Post Switch

The Meters Post switch toggles the Channel Meters between pre-fader and post-fader operation. This switch mirrors the state of the Pre- and Post-Fader Metering options in Pro Tools. The Meters Post switch lights when channel meters are set to post-fader operation.

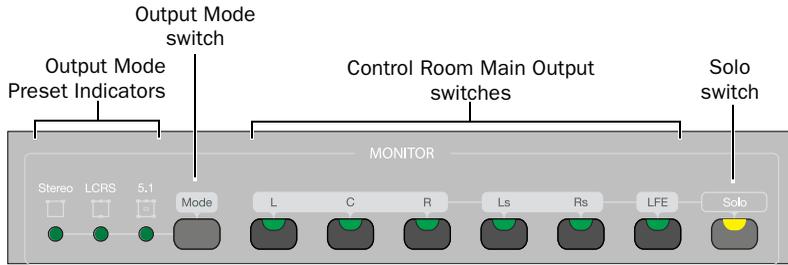
# Chapter 7: C|24 Analog Audio Controls

## Monitor Section

The Monitor section includes controls for 6-channel control room monitoring, 2-channel studio loudspeaker and cue system routing, headphone output, and listenback and talkback input.



C|24 Monitor section



C|24 Monitor section (top)

## Output Mode Switch and Indicators

C|24 has three preset monitor modes available for the Control Room Main Outputs:

- Stereo (L,R)
- LCRS
- 5.1 (L, C, R, Ls, Rs, LFE)

The Output Mode switch cycles through these three preset modes.

- ◆ When any of these preset modes is selected, its indicator lights, and the corresponding Main Output switches light.
- ◆ When any of these preset modes is selected and any of its outputs are disabled, or any additional outputs are enabled, the indicator flashes.

**Stereo Mode** In Stereo mode, only the Left (L) and Right (R) output channels of the Control Room Main Outputs are active, even when monitoring a surround input source. No summing of the surround channels occurs.

**LCRS Mode** In LCRS mode, the Left (L), Center (C), Right (R), and Left Surround (Ls) channels are active. In this mode, the Left Surround (Ls) input is routed to both the Left Surround (Ls) and Right Surround (Rs) outputs.

**5.1 Mode** In 5.1 mode, all output channels are active.

## Control Room Main Output Switches

The Control Room Main Output switches enable the corresponding output channels. You can enable any combination of channels at a time.

An output switch lights to indicate that the channel is enabled.

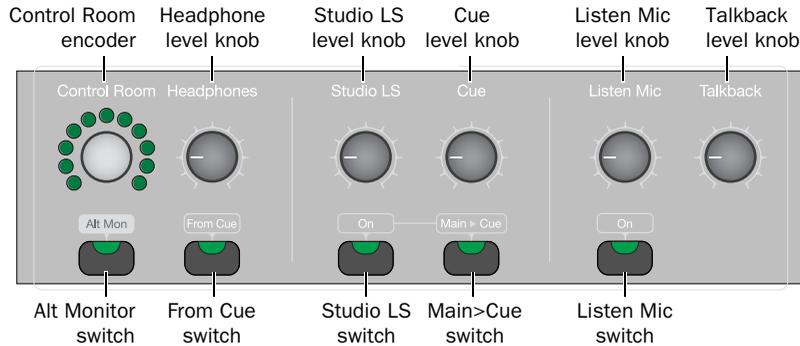
The switches are as follows:

- L (Left)
- C (Center)
- R (Right)
- Ls (Left Surround)
- Rs (Right Surround)
- LFE (Low Frequency Effect)

## Solo Switch

The Solo switch puts the Main Output switches in Solo mode, which lets you solo output channels by pressing the corresponding switch. The Solo switch lights to indicate Solo mode is active.

When you first enter Solo mode, all currently enabled Main Output switches remain active, until you press a switch to solo a channel.



C|24 Monitor section (middle)

### Control Room Encoder and LEDs

The Control Room encoder controls the output volume for the Main and Alt outputs. The encoder LEDs show Gain graphically, and the LCD displays show Gain values (in dB).

### Alt Monitor Switch

The Alt Monitor switch routes the Left and Right channels to the Alt Outputs, and deactivates the C, Ls, Rs, and LFE channels. When the Alt Monitor outputs are active, this switch is lit. When the Main Monitor outputs are active, this switch is unlit.

### Headphone Level Knob

The Headphone level knob controls volume to the built-in headphone output. The headphone output is fed by the Left and Right Control Room Main outputs (channels 1 and 3).

### From Cue Switch

The From Cue switch routes the Cue output to the headphones (post Cue level control) and disables the feed from the Main output. The From Cue switch lights to indicate that the Cue routing is active.

### Studio LS Level Knob and Switch

The Studio LS level knob controls volume to the Studio LS outputs. The Studio LS switch activates the Studio LS output, and lights to indicate that the Studio LS is on.

### Cue Level Knob and Main to Cue Switch

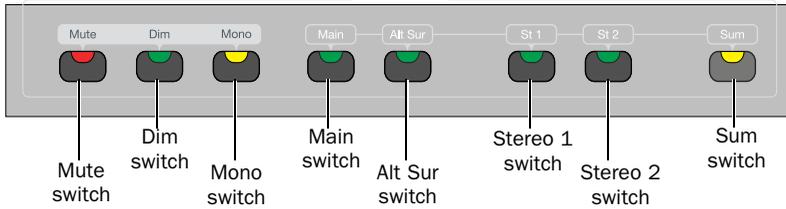
The Cue level knob controls volume to the Cue outputs. The Main to Cue switch routes the Left and Right Control Room outputs to the Cue outputs and disables the feed from the Cue input. The Main to Cue switch lights to indicate that the routing is active.

### Listen Mic Level Knob and Switch

The Listen Mic level knob controls gain for the Listen microphone, which feeds the Main output. The Listen Mic switch activates Listenback, and lights when Listenback is on.

### Talkback Level Knob and Switch

The Talkback level knob controls gain for the Talkback microphone. Talkback signal is summed with the Cue inputs and also sent to the Slate output. Talkback is activated by the Talkback switch in the Transport section.



C|24 Monitor section (bottom)

## Master Control Room Output Controls

### Mute Switch

The Mute switch mutes all Control Room monitor outputs (Main and Alt), but does not mute Headphone, Cue, and Studio LS outputs. The Mute switch lights to indicate that Control Room outputs are muted.

### Dim Switch

The Dim switch applies an adjustable gain reduction to all Control Room monitor outputs (Main, Alt, and Stereo 1 and 2), but does not affect Headphone, Cue, and LS outputs. The default gain reduction amount is 20 dB. Dim is automatically engaged when Talkback is engaged. The Dim switch lights to indicate that Control Room outputs are dimmed.

### Mono Switch

The Mono switch sums the Left and Right Control Room outputs (Main, Alt and Stereo 1 and 2), deactivates the C, Ls, Rs, and LFE channels, and lowers monitor output by an adjustable amount. The default gain reduction is 6 dB. Headphone, Cue, and LS outputs are not affected. The Mono switch lights to indicate that it is active.

## Control Room Input Selectors

Control Room Input selections are mutually exclusive (X-OR) unless the Sum switch is engaged, when they are additive.

### Main Switch

The Main switch routes the Main Surround input (Pro Tools In 1-6) to the Control Room outputs. The Main switch lights to indicate that it is active.

### Alt Sur Switch

The Alt Sur switch routes the Alternate Surround input (Surround In 1-6) to the Control Room outputs. The Alt Sur switch lights to indicate that it is active.

### Stereo 1 and Stereo 2 Switches

The Stereo 1 and Stereo 2 switches route the External Stereo inputs (Ext St 1 and Ext St 2) to the Control Room outputs.

These stereo inputs appear in the Left and Right Control Room output channels only and are excluded from the C, Ls, Rs, and LFE channels.

The Stereo 1 and Stereo 2 switches light to indicate that they are active.

## Sum Switch

The Sum switch causes Control Room Inputs to be additive instead of mutually exclusive (X-OR). When active, the Sum switch temporarily bypasses any Trim values currently applied to any of the inputs.

The Sum switch latches on, allowing you to select the inputs to be summed. The Sum switch lights to indicate that it is active.

## Monitoring AFL/PFL Signals

### (Pro Tools HD Only)

If you are working on a stereo session, you can monitor soloed tracks in AFL or PFL Solo mode by routing the AFL/PFL path to one of the C|24 External Stereo inputs and summing that Stereo input with the C|24 Main input.

#### To monitor AFL/PFL signals:

- 1 Connect an unused pair of outputs on your audio interface to one of the External Stereo inputs on C|24.
- 2 In the Pro Tools I/O Setup window, select the pair of audio interface outputs as the AFL/PFL output path.
- 3 Select the Main output path to be muted when you solo a track in AFL or PFL mode.
- 4 In the Monitor section of C|24, press the Sum switch so that it is active.
- 5 Activate the Main input and the External stereo input.

When AFL or PFL Solo mode is selected and a track is soloed, the Main input is muted and the AFL/PFL signal is heard on the External Stereo input.

## Submixer Output

When the To Monitor switch in the Line Submixer controls is engaged, the stereo output from the Submixer is routed internally and automatically summed with the Left and Right channels of the current Control Room Input selection, and are excluded from the C, Ls, Rs, and LFE channels. Any Trim values applied to the current input are also applied to the summed Submixer output.

## Trimming Monitor Section Gain Controls

The gain controls in the Monitor section can be adjusted to establish channel balance and level matching between inputs.

## Control Room Main Outputs

Each of the Control Room Output channels can be trimmed individually. Available trim values range from -30 dB to +10 dB, in 0.5 dB steps.

#### To trim the level for an individual output channel:

- 1 Hold the Output Channel switch until the switch flashes. The channel name and Trim amount appear in the right side of the LCD displays.
- 2 Turn the Control Room encoder to adjust the Trim amount.
- 3 Press the flashing Output Channel switch to confirm the change, or press any other switch in the Monitor section to cancel the change.
- 4 Repeat the above steps for each output channel you want to trim.

## Control Room Alt Outputs

The Control Room Alt Outputs can be trimmed relative to the Main Output to compensate for differences between speaker systems. The Left and Right channels of the Alt Output can also be trimmed relative to each other.

### To trim the overall level of the Alt Outputs:

- 1 Hold the Alt Mon switch until the switch flashes. The Trim amount appears in the right side of the LCD displays. Available trim values range from  $-30$  dB to  $+6$  dB, in 0.5 dB steps.
- 2 Turn the Control Room encoder to adjust the Trim amount.
- 3 Press the flashing Alt Mon switch to confirm the change, or press any other switch in the Monitor section to cancel the change.

### To trim the level for the Left or Right Alt Output:

- 1 Press the Alt Mon switch so that the Alt Mon Output is selected (the switch is lit).
- 2 Hold the Left or Right Output Channel switch until the switch flashes. The channel name and Trim amount appear in the right side of the LCD displays.
- 3 Turn the Control Room encoder to adjust the Trim amount.
- 4 Press the flashing Output Channel switch to confirm the change, or press any other switch in the Monitor section to cancel the change.

## Control Room Output Dim Function

The Dim switch applies an adjustable gain reduction to all Control Room monitor outputs. The amount of Dim gain reduction can be set while in any monitoring mode.

### To set the amount of Dim gain reduction:

- 1 Hold the Dim switch until the switch flashes. The Dim amount appears in the right side of the LCD displays.
- 2 Turn the Control Room encoder to adjust the Dim amount.
- 3 Press the flashing Dim switch to confirm the change, or press any other switch in the Monitor section to cancel the change.

## Control Room Output Mono Function

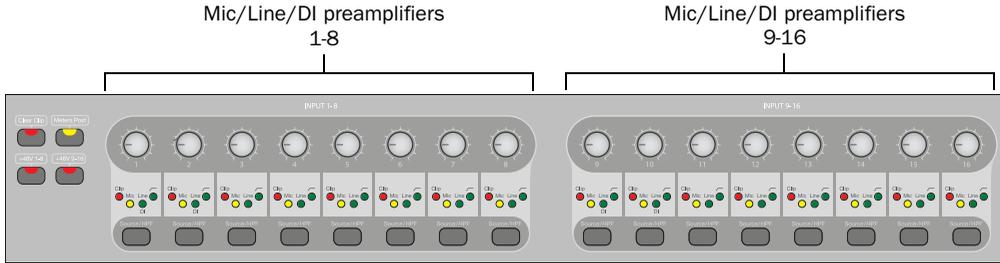
The Mono switch sums the Left and Right Control Room outputs and lowers monitor output by an adjustable amount. The amount of Mono level reduction can be set while in any monitoring mode.

### To set the amount of Mono level reduction:

- 1 Hold the Mute switch until the switch flashes. The Dim amount appears in the right side of the LCD displays.
- 2 Turn the Control Room encoder to adjust the Mono level reduction amount.
- 3 Press the flashing Mono switch to confirm the change, or press any other switch in the Monitor section to cancel the change.

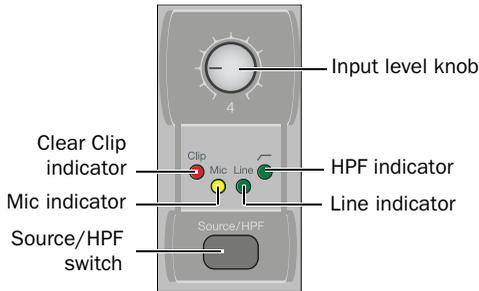
# Mic/Line/DI Preamplifier Controls

The Mic/Line/DI Preamplifier section includes 16 sets of controls for the built-in microphone preamplifiers, and switches to apply phantom power (in two groups of 8 channels).



Mic/Line/DI preamplifiers

## Mic Pre Controls



Mic Pre controls

## Input Level Knobs (1-8, 9-16)

The Input Level knob adjusts the gain of the corresponding preamplifier.

## Clip Indicators

The Clip Indicator is a Red LED that lights when the corresponding preamplifier receives an input signal that exceeds its capacity.

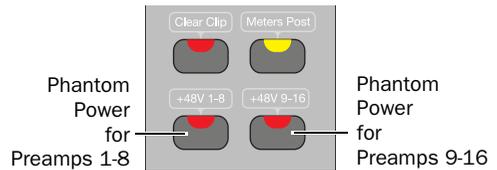
## Source/HPF Switch

The Source/HPF switch cycles through input sources and toggles high-pass filter in/out status for the corresponding preamplifier, in this order: Mic, Mic+HPF in, Line, Line+HPF in.

## Source and HPF Indicators

The Source Indicators show the active input source, Mic (yellow) or Line (green), and the HPF Indicator shows the high-pass filter status for the corresponding preamplifier.

## Phantom Power Switches



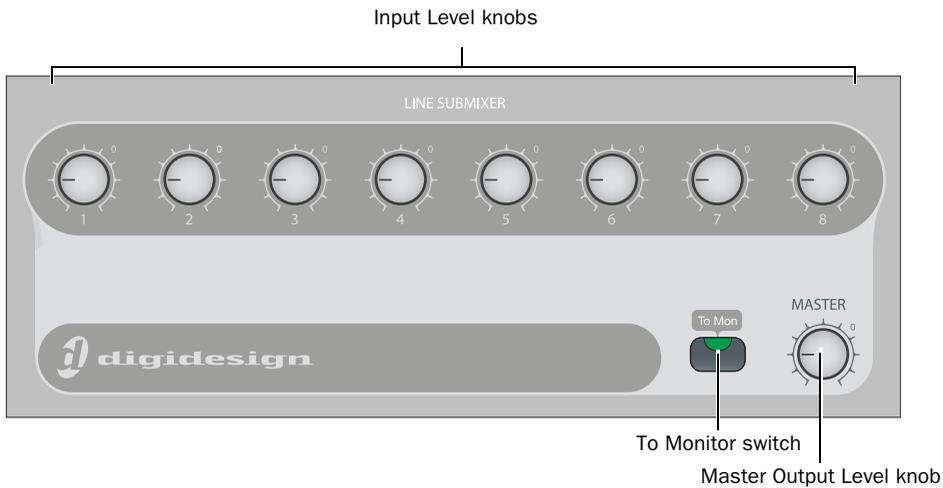
Phantom Power switches

The +48V (Phantom Power) switches toggle phantom power on and off for Mic/Line/DI preamplifiers 1-8 and 9-16 respectively. The switches light to indicate that power is applied.

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## Line Submixer Controls

The Line Submixer section includes an input level control for each of its 8 inputs and a master output level control that sets the output levels to the external stereo output or the internal feed to the Monitor section.



### *Line Submixer*

#### **Mixer Input Level Knobs (1-8)**

The Input Level knob adjusts the gain of the corresponding Line Submixer input.

#### **To Monitor Switch**

The To Monitor switch routes the stereo output of the Line Submixer to the Monitor section and automatically sums the signal with the Left and Right channels of the current Control Room Input selection. Any Trim values applied to the current input in the Monitor section are also applied to the summed Submixer output.

#### **Master Output Level Knob**

The Master Output Level knob controls the volume to the Line Submixer stereo outputs.

# **Part IV: Applications**



# Chapter 8: Operating Views and Modes

C|24 offers two main types of views on its rotary encoders and LCD displays: *Console views* and *Channel views*.

**Console Views** Console views display a single control type across the entire console (for example, Send A on all tracks).

The available Console views are:

- Pan Console view (or “Home” view)
- Sends Console view

**Channel Views** Channel views display all of the controls on a single channel (for example, all of the sends or inserts on a track).

The available Channel views are:

- Pan/Send Channel view
  - Expanded Pan view
  - Expanded Send view
- Insert Select view
  - Parameter view

C|24 offers additional views for working with Digidesign PRE settings, Pro Tools Mix/Edit Groups, Window Configurations and Memory Locations.

C|24 also features powerful Flip mode capability for transferring different controls to the touch-sensitive faders.

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## Console Views

C|24 Console views let you show pan position or send assignments and controls across all channels on the control surface.

### Pan Console View

#### “Home” View

Pan Console view is the default or “Home” view on C|24. In this view, each rotary encoder controls channel pan on its track.

The Pan parameters controlled by the encoder are selected in the Pan section of the Channel Bar. Available parameters depend on the track format and the width of track’s output path.

**Mono Track Format** Pan on mono tracks is controlled by the track’s encoder.

**Stereo Track Format** The Left or Right pan controls are focused on the track’s encoder.

**Stereo Output Path** The track’s encoder controls panning in the stereo field with the L(C)R pan parameter.

#### Multichannel Output Path (Pro Tools HD Only)

The track’s encoder controls panning in the surround field with the L(C)R (or “Front”), Front-Rear, Rear, and Center % parameters, as well as LFE level, depending on the output format.

### **To display pan controls across the console:**

- 1 Press the Home switch to put C|24 in Pan Console view.
- 2 Press a Pan parameter switch in the Pan section of the Channel Bar.
- 3 Press the LCD Display Mode switch repeatedly until Pan values are shown for each channel on the LCD displays.

### **To open/close the Output window for a track:**

- Hold the Ctrl/Win Modifier key and press the channel's encoder switch.

### **To adjust a track's pan controls:**

- 1 Press the Home switch to put C|24 in Pan Console view.
- 2 Press a Pan parameter switch in the Pan section of the Channel Bar.
- 3 Do one of the following:
  - If the track is a mono track, toggle the L/R switch in the Channel Bar so that it is unlit.
  - or –
  - If the track is a stereo track, toggle the L/R switch in the Channel Bar to show the Left (unlit) or Right (lit) side of the stereo track.
- 4 Turn the channel's rotary encoder.

## **Sends Console View**

In Sends Console view, each rotary encoder controls Send volume for a given Send position on the track.

Send position is selected in the Sends section of the Channel Bar.

### **To display a Send position across the console:**

- 1 In the Channel Bar, do one of the following:
  - To display a Send A-E, toggle the F-J switch so that it is unlit, and press a Sends switch (A/F, B/G, C/H, D/I, or E/J).
  - or –
  - To display a Send F-J, toggle the F-J switch so that it is lit, and press a Sends switch (A/F, B/G, C/H, D/I, or E/J).

- 2 Press the LCD Display Mode switch repeatedly until the Send Volume values are shown for each channel on the LCD displays.

### **To open/close the Send window for the displayed Send:**

- Hold the Ctrl/Win Modifier key and press the channel's encoder switch.

### **To adjust a track's send levels:**

- 1 In the Channel Bar, press the Sends switch that corresponds to the name of the Send position you want to adjust.
- 2 Turn the channel's rotary encoder.

## Muting Sends in Sends Console View

### To toggle the mute status of a track's send:

- 1 In the Channel Bar, press the Sends switch that corresponds to the name of Send position you want to mute.
  - 2 In the Switch Functions section, press the Send Mute switch to assign control of Send Mute to the encoder switches.
  - 3 Press the channel's encoder switch.
- ◆ When the send is muted, the switch is lit and the LCD display temporarily shows "Mute."
  - ◆ When the send is not muted, the switch is unlit and the LCD display temporarily shows "No-Mute."

### To toggle the mute status of all sends on a track:

- 1 Press the Insert/Send Bypass switch so that it is lit.
- 2 Press the Send switch in the track's channel strip.

## Setting the Pre-/Post-Fader Status of Sends in Sends Console View

### To toggle the pre-/post-fader status of a track's send:

- 1 In the Channel Bar, press the Sends switch that corresponds to the name of the Send position you want to change.
  - 2 In the Switch Functions section, press the Pre/Post switch to assign control of pre-/post-fader status to the encoder switches.
  - 3 Press the channel's encoder switch.
- ◆ When the send is pre-fader, the switch is lit and the LCD display temporarily shows "Pre."

- ◆ When the send is post-fader, the switch is unlit and the LCD display temporarily shows "Post."

### To exit Send Console view:

- Press the lit Sends switch in the Channel Bar.
  - or –
- Enter another view.

---

## Channel Views

C|24 Channel views let you focus all of a track's pan controls, send controls, or inserts in the C|24 LCD displays.

### Pan/Send Channel View

In Pan/Send Channel view, Pan and Send controls on the focused channel are displayed horizontally across the LCD displays.

A track is focused in this view by pressing the Send switch in its channel strip.

### To display the Sends on a track:

- 1 Press the Send switch in the track's channel strip. The switch flashes to indicate track focus.
  - 2 If necessary, do one of the following:
    - To display Sends A-E, press the F-J switch so that it is unlit.
    - or –
    - To display Sends F-J, press the F-J switch so that it is lit.
- ◆ The left side of the LCD display shows the track name in the top row and "Pan/Send" in the bottom row, followed by "Main Pan" in the top row and the channel pan value in the bottom row.

◆ For each assigned Send on the track, the LCD display shows Send position, Send path, “Snd-Pan” on the top row, and Send mute state, “more” and Send pre/post state on the bottom row.

◆ For each Send position without an assignment, the LCD display shows “No Send” on the top row, and “assign” on the bottom row.

#### **To open the Send window a Send on a track:**

- 1 Press the Send switch in the track’s channel strip.
- 2 If necessary, scroll the LCD display to show the Send position whose window you want to open.
- 3 Hold the Ctrl/Win Modifier switch and press the encoder switch that corresponds to “more.”

#### **To adjust levels for a Send on a track:**

- 1 Press the Send switch in the track’s channel strip.
- 2 If necessary, scroll the LCD display to show the Send position you want to adjust.
- 3 Turn the encoder that corresponds to the name of the Send position.

#### **To adjust pan position of a Send on a track:**

- 1 Press the Send switch in the track’s channel strip.
- 2 If necessary, scroll the LCD display to show the Send position you want to adjust.
- 3 Turn the encoder that corresponds to “Snd-Pan.”

## **Muting Sends in Pan/Send Channel View**

#### **To toggle the mute state of a send on a track:**

- 1 Press the Send switch in the track’s channel strip.
- 2 If necessary, scroll the LCD display to show the Send position you want to mute.
- 3 Press the encoder switch that corresponds to “mute.”
  - ◆ When a Send is muted, the LCD display shows “MUTE” (all uppercase).
  - ◆ When a Send is not muted, the LCD display shows “mute” (lowercase).

#### **To mute all sends at the same Send positions on all tracks:**

- 1 Press the Insert/Send Bypass switch so that it is lit.
- 2 Do one of the following:
  - Press the Do To All switch.
  - Hold the Option/Alt (all) switch.
- 3 Press the Send switch in a track with a send at the appropriate Send position.

## Setting the Pre-/Post-Fader Status of Sends in Pan/Send Channel View

**To toggle the pre-/post-fader state of any of the sends on a track:**

- 1 Press the Send switch in the track's channel strip.
- 2 If necessary, scroll the LCD display to show the Send position you want to change.
- 3 Press the encoder switch that corresponds to "SndPan" to toggle the pre-/post-fader state.

**To display the Output window for a track:**

- 1 Press the Send switch in the track's channel strip.
- 2 Hold the Ctrl/Win Modifier switch and press the encoder switch that corresponds to "Main Pan."

**To exit Pan/Send Channel view, do any of the following:**

- Press the flashing Sends switch in the channel strip.
- Press the encoder switch that corresponds to "Pan/Send."
- Enter another view.

## Expanded Pan View

You can display all the Pan controls for a track in Expanded Pan view.

**To display the Pan controls for a track in Expanded Pan view:**

- Double-press the Send switch in the track's channel strip.
  - or –
- 1 Press the Send switch in the track's channel strip.
- 2 Press the encoder switch that corresponds to "Main Pan."
  - ◆ The left side of the LCD displays the track name in the top row and "Main Output" in the bottom row, followed by track Mute, Solo, Automation Safe, and Volume displays.
  - ◆ The LCD display also shows pan parameters as follows:

**Stereo Output Path** Tracks assigned to a stereo output path show Left-Right pan. Stereo tracks assigned to a stereo output path also show Left/Right Pan Link and Front Inverse Link controls.

### Multichannel Output Path (Pro Tools HD Only)

Tracks assigned to a multichannel output path can show Front Pan, Rear Pan, Front/Rear Pan, Front Divergence, Rear Divergence, Front/Rear Divergence, Center %, and LFE level, depending on the output format. Stereo tracks assigned to a multichannel output path also show Pan Link controls (Left/Right Link, Front Inverse Link, Rear Inverse Link, and Front/Rear Inverse Link).

**To adjust a track's volume in Expanded Pan view:**

- 1 Press the Send switch in the track's channel strip.
- 2 Press the encoder switch that corresponds to "Main Pan."
- 3 Turn the encoder that corresponds to "Volume."

**To adjust a track's pan controls in Expanded Pan view:**

- 1 Press the Send switch in the track's channel strip.
- 2 Press the encoder switch that corresponds to "Main Pan."
- 3 Do one of the following:
  - If the track is a mono track, toggle the L/R switch in the Channel Bar so that it is unlit.  
– or –
  - If the track is a stereo track, toggle the L/R switch in the Channel Bar to show the Left (unlit) or Right (lit) side of the stereo track.
- 4 Turn the rotary encoders for the available pan or divergence parameters in the LCD displays.

**To toggle the mute, solo, or automation safe status of a track in Expanded Pan view:**

- 1 Press the Send switch in the track's channel strip.
- 2 Press the encoder switch that corresponds to "Main Pan."
- 3 Press the encoder switch that corresponds to "Mute," "Solo," or "Safe" to toggle the function On or Off.

When track Mute, Solo, or Automation Safe is On, the corresponding encoder switch is lit.

**To toggle track panner linking in Expanded Pan view:**

- 1 Press the Send switch in the track's channel strip.
- 2 Press the encoder switch that corresponds to "Main Pan."
- 3 Press the encoder switch that corresponds to any of the following:
  - Link (Left/Right panner link)
  - Front (Front Inverse link)
  - Rear (Rear Inverse link)
  - FrRear (Front/Rear Inverse link)

When a panner linking option is On or Inverted, the corresponding encoder switch is lit.

**To exit Expanded Pan view, do any of the following:**

- Press the encoder switch that corresponds to "Main Output."
- Press the flashing Send switch in the track's channel strip.
- Enter another view.

**Expanded Send View**

You can display all the controls for an individual Send in Expanded Send view.

**To display the controls for a Send in Expanded Send view:**

- 1 Press the Send switch in the track's channel strip.
- 2 If necessary, do one of the following:
  - To display Sends A-E, press the F-J switch so that it is unlit.  
– or –
  - To display Sends F-J, press the F-J switch so that it is lit.

**3** For the Send you want to display, press the encoder switch that corresponds to “more.”

The LCD displays show the track name in the top row and the Send position and Send path in the bottom row, followed by Send Mute, track Solo, Send Automation Safe, Send Pre/Post, Follows Main Pan, and Send Volume displays.

The LCD displays also show pan parameters as follows:

**Stereo Output Path** Sends assigned to a stereo Send path show Left-Right pan. Stereo Sends assigned to a stereo Send path also Left/Right Pan Link and Front Inverse Link controls.

#### **Multichannel Output Path (Pro Tools HD Only)**

Sends assigned to a multichannel output path can show Front Pan, Rear Pan, Front/Rear Pan, Front Divergence, Rear Divergence, Front/Rear Divergence, Center %, and LFE level, depending on the output format. Stereo tracks assigned to a multichannel output path also show Pan Link controls (Left/Right Link, Front Inverse Link, Rear Inverse Link, and Front/Rear Inverse Link).

#### **To adjust a Send's volume in Expanded Send view:**

- 1** Press the Send switch in the track's channel strip.
- 2** For the Send you want to display, press the encoder switch that corresponds to “more.”
- 3** Turn the encoder that corresponds to “Volume.”

#### **To adjust a Send's pan controls in Expanded Send view:**

- 1** Press the Send switch in the track's channel strip.
- 2** For the Send you want to display, press the encoder switch that corresponds to “more.”
- 3** Do one of the following:
  - If the Send is a mono Send, toggle the L/R switch in the Channel Bar so that it is unlit.
  - or –
  - If the Send is a stereo Send, toggle the L/R switch in the Channel Bar to show the Left (unlit) or Right (lit) side of the stereo track.
- 4** Turn the rotary encoders for the available pan or divergence parameters in the LCD displays.

#### **To toggle the Send mute, track solo, or Send automation safe state in Expanded Send view:**

- 1** Press the Send switch in the track's channel strip.
- 2** For the Send you want to display, press the encoder switch that corresponds to “more.”
- 3** Press the encoder switch that corresponds to “Mute,” “Solo,” or “Safe” to toggle the function On or Off.

When Send Mute, track Solo or Send Automation Safe is On, the corresponding encoder switch is lit.

#### **To toggle the pre-/post-fader state of a Send in Expanded Send view:**

- 1** Press the Send switch in the track's channel strip.
- 2** For the Send you want to display, press the encoder switch that corresponds to “more.”
- 3** Press the encoder switch that corresponds to “Pre/Pst” to toggle the pre-/post-fader state.

### **To link a Send's Pan controls to the Main Pan controls of a track ("Follows Main Pan"):**

- 1 Press the Send switch in the track's channel strip.
- 2 For the Send you want to display, press the encoder switch that corresponds to "more."
- 3 Press the encoder switch that corresponds to "FMP" to toggle Follows Main Pan On and Off.
  - ◆ When Follows Main Pan is On, the corresponding encoder switch is lit.

### **To toggle Send panner linking in Expanded Send view:**

- 1 Press the Send switch in the track's channel strip.
- 2 For the Send you want to display, press the encoder switch that corresponds to "more."
- 3 Press the encoder switch that corresponds to any of the following:
  - Link (Left/Right panner link)
  - Front (Front Inverse link)
  - Rear (Rear Inverse link)
  - FrRear (Front/Rear Inverse link)

When a panner linking option is On or Inverted, the corresponding encoder switch is lit.

### **To exit Expanded Send view, do any of the following:**

- Press the encoder switch that corresponds to the name of Send position.
- Press the flashing Send switch in the track's channel strip.
- Enter another view.

## **Insert Select View**

In Insert Select view, insert controls on the focused channel are displayed horizontally across the LCD displays.

A track is focused in this view by pressing the Insert switch in its channel strip.

### **To display the Inserts on a track:**

- Press the Insert switch in the track's channel strip. The switch flashes to indicate track focus.

The left side of the LCD display shows the track name in the top row and "Inserts" in the bottom row.

For each assigned Insert on the track, the LCD displays show Insert position and Insert name on the top row, "more" and Insert bypass state on the bottom row.

For each Insert position without an assignment, the LCD displays show "No Insert" on the top row, and "assign" on the bottom row.

### **To cycle through the Inserts on a track:**

- Double-press the Insert switch on the track's channel strip.

## **Focusing Plug-Ins on C|24**

A focused plug-in is indicated on-screen by a colored outline around the plug-in button and around the plug-in window header.

In Insert Select view, a focused plug-in is indicated on C|24 by an asterisk ("\*") below the Insert position in the LCD displays, a flashing plug-in name and a flashing encoder switch.

You can display the parameters of a focused plug-in in Parameter view. See "Parameter View" on page 80.

### **To focus a plug-in:**

- 1 Press the Insert switch in the track's channel strip.
- 2 Press the encoder switch to the left of the "more" encoder switch for the plug-in. An asterisk ("\*") appears below the Insert position to indicate that the plug-in is focused.

### **Opening Plug-in Windows**

You can focus a plug-in on C|24 with or without displaying its window on-screen.

#### **To set C|24 to automatically open windows of focused plug-ins:**

- 1 Press the Soft Keys switch.
- 2 Press the encoder switch that corresponds to "ChanWn" so that its value is "Yes."
- 3 Press the lit Soft Keys switch.

With this preference set to "Yes," when you assign or focus a plug-in, the plug-in window will open automatically on-screen.

#### **To focus a plug-in on C|24 and open its window:**

- 1 Press the Insert switch of the track whose plug-in you want to focus.
- 2 Press the encoder switch that corresponds to the Insert position for the plug-in.

The focused plug-in is indicated on C|24 by an asterisk below the Insert position.

#### **To open or close a plug-in window on-screen for an Insert without focusing it on C|24:**

- 1 Press the Insert switch in the track's channel strip.
- 2 Hold the Ctrl/Win Modifier switch and press the encoder switch that corresponds to "more" for the plug-in.

### **To open multiple plug-in windows:**

- Hold the Shift (add) Modifier switch while opening each new plug-in window.

### **To close all open plug-in windows:**

- Hold the Opt/Alt (all) Modifier switch and press the Plug-in switch in the Windows section.

### **Bypassing Plug-ins**

When a plug-in is bypassed, the LCD display shows "BYPASS" (all uppercase) and the plug-in name changes to all uppercase.

When an plug-in is not bypassed, the LCD display shows "bypass" (lowercase) and the plug-in name changes to all lowercase.

#### **To toggle the bypass state of a plug-in:**

- 1 Press the Insert switch in the track's channel strip.
- 2 Press the encoder switch that corresponds to "bypass."

#### **To toggle the bypass state of all plug-ins on a track:**

- 1 Press the Insert switch in the track's channel strip.
- 2 Press the Mstr Bypass switch in the Inserts section of the Channel Bar.

– or –

- 1 Press the Insert/Send Bypass switch so that it is lit.
- 2 Press the Insert switch in the track's channel strip.

**To toggle the bypass state of all plug-ins at the same insert positions on all tracks:**

- 1 Press the Insert/Send Bypass switch so that it is lit.
- 2 Do one of the following:
  - Press the Do To All switch.
  - Hold the Option/Alt (all) switch.
- 3 Press the Insert switch in a track with an insert at the appropriate insert position.

All plug-ins at the same insert positions will be bypassed on all tracks.

## **Deactivating Inserts on C|24**

**To deactivate an Insert on a track:**

- 1 Press the Insert switch in the track's channel strip.
- 2 Hold the Command/Ctrl+Ctrl/Win Modifier switches and press the encoder switch that corresponds to "more" (for plug-ins) or the insert name (for I/O inserts).

When an Insert is inactive, the LCD display shows "inactv" (all lowercase) and an "@" sign appears in front of the plug-in name.

**To activate an inactive Insert:**

- Hold the Command/Ctrl+Ctrl/Win Modifier switches and press the encoder switch that corresponds to "inactv."

## **Parameter View**

You can display all the controls for an individual plug-in in Parameter view. (Hardware inserts do not have a Parameter view.)

In Parameter view, the LCD displays show the parameter names in the top row and the parameter values in the bottom row. The encoders and the encoder switches control the corresponding parameters.

If there are more parameters than can be displayed at once on the LCD displays, the Channel Bar Scroll switch flashes.

When you change a plug-in parameter, the Compare switch in the Inserts section of the Channel Bar lights.

**To display the controls for a plug-in:**

- 1 Press the Insert switch in the track's channel strip.
- 2 For the plug-in you want to display, press the encoder switch that corresponds to "more."

**To cycle display of all the plug-ins on a track:**

- Double-press the Insert switch in the track's channel strip.

**To display the currently focused plug-in:**

- 1 Press the Insert switch in the track's channel strip.
- 2 Press the Insert/Param switch in the Inserts section of the Channel Bar.

**To temporarily show the track name, Insert position and name of the currently focused plug-in:**

- Hold the LCD Display switch.
  - or –
- Hold the Insert switch on a channel.

**To toggle the bypass state of the currently displayed plug-in:**

- In Parameter view, press the Mastr Bypass switch in the Inserts section of the Channel Bar.

**To toggle the automation safe status of the currently focused plug-in:**

- Press the Safe switch in the Inserts Section of the Channel Bar.

**To compare plug-in parameter changes with the currently loaded plug-in setting:**

- Press the lit Compare switch.

**To return to Insert Select view:**

- Press the flashing Insert/Param switch.
  - or –
- Press the Insert switch in a track's channel strip.

**Viewing EQ and Dynamics Plug-ins**

**To display the controls for the first (or most recently focused) EQ or Dynamics plug-in on a track:**

- Press the EQ or Dynamics switch on the track.

**To cycle display of the EQ or Dynamics plug-ins on a track:**

- 1 Press the EQ or Dynamics switch in the track's channel strip to display the first (or most recently focused) plug-in of the corresponding type.
- 2 Double-press the EQ or Dynamics switch to display the next plug-in of the corresponding type.

**Bypassing EQ and Dynamics Plug-ins**

**To toggle the bypass state of all Dyn or EQ plug-ins on a track:**

- 1 Press the Dyn/EQ Bypass switch so that it is lit.
- 2 Press the Dyn or EQ switch on the track.

**To toggle the bypass state of all Dyn or EQ plug-ins at the same insert positions on all tracks:**

- 1 Press the Dyn/EQ Bypass switch so that it is lit.
- 2 Do one of the following:
  - Press the Do To All switch.
  - Hold the Option/Alt (all) switch.
- 3 Press the Dyn or EQ switch on a track that has plug-ins of the corresponding type.

All plug-ins of the same type and at the same insert positions will be bypassed on all tracks.

**Setting Up Multi-mono Plug-ins**

When using a multi-mono plug-in on a multi-channel track, you can link channels of the plug-in from Parameter view.

**To display the multi-mono plug-in Setup page:**

- 1 Press the Insert switch in the track's channel strip.
- 2 For the plug-in you want to display, press the encoder switch that corresponds to "more."
- 3 Hold the Insert/Param switch in the Inserts section of the Channel Bar until the Setup page appears in the LCD displays.

The LCD displays show the track name in the top row and "Link," "Target," "Group," and "Bypass" in the bottom row.

**To unlink or relink channels on a multi-mono plug-in:**

- From the multi-mono plug-in setup page, press the encoder switch that corresponds to "Link."

**To target controls for a specific channel on a multi-mono plug-in:**

- 1 From the multi-mono plug-in setup page, press the encoder switch that corresponds to “Target.”
- 2 Press the encoder switch that corresponds to the channel you want to target, which can include Left, Center, Right, Left Surround, Right Surround, or LFE.

**To link the controls of specific channels on a multi-mono plug-in:**

- 1 From the multi-mono plug-in setup page, press the encoder switch that corresponds to “Group.”
- 2 Press the encoder switches that correspond to the channels of the plug-in you want to group, which can include Left, Center, Right, Left Surround, Right Surround, and LFE.

**To bypass channels on a multi-mono plug-in:**

- 1 From the multi-mono plug-in setup page, press the encoder switch that corresponds to “Bypass.”
- 2 Press the encoder switches that correspond to the channels of the plug-in you want to bypass, which can include Left, Center, Right, Left Surround, Right Surround, and LFE.

**To exit the multi-mono plug-in Setup page:**

- Press the flashing Insert/Param switch.

**To exit Parameter view, do any of the following:**

- Press the flashing Insert switch in the track’s channel strip.
- Press the Insert/Param switch in the Inserts section of the Channel Bar.
- Enter another view.

---

## Mic Pre View

If you have a Digidesign PRE in your system, Mic Pre views let you control the PRE from C|24.

### Mic Pre Console View

**To display PRE gain values across all channels:**

- Press the Mic Pre switch.

The track name is displayed in the top row, and the Gain value (in dB) is displayed in the bottom row, prefaced by one of the following:

- MGn: Microphone gain
  - LGn: Line In gain
  - IGn: Direct Input gain
- ◆ Gain is controlled by the encoder.

**To open the Mic Pre window for a track:**

- Hold the Ctrl/Win Modifier switch and press the encoder switch for the track.

**To exit Mic Pre view, do any of the following:**

- Press the lit Mic Pre switch.
- Enter another view.

### Expanded Mic Pre View

You can display all of the PRE controls for a channel in Expanded Mic Pre view.

**To display the PRE controls for a channel in Expanded Mic Pre view:**

- 1 Press the Mic Pre switch.
- 2 Press the encoder switch that corresponds to the channel you want to display.

In Expanded Mic Pre view, the following controls are shown in the LCD displays:

- Gain: controlled by the encoder
- Source: chosen with the encoder
- Impedance: chosen with the encoder (for Mic/Line source only)
- Pad: toggled with the encoder switch
- Polarity: toggled with the encoder switch
- Phantom Power: toggled with the encoder switch
- High-Pass Filter: toggled with the encoder switch
- Insert: toggled with the encoder switch

**To open the Mic Pre window for the track:**

- Hold the Ctrl/Win Modifier switch and press the encoder switch that corresponds to “Mic Pre.”

**To exit Expanded Mic Pre view, do any of the following:**

- Press the lit Mic Pre switch in the view section.
- Press the encoder switch that corresponds to “Mic Pre.”
- Enter another view.

---

## Groups View

C|24 lets you show Pro Tools Mix/Edit groups in the LCD displays, and create, enable, modify and delete groups from the control surface.

### Displaying Group Membership of Tracks

You can set C|24 to show the Group ID of tracks along with their track names in the LCD displays. See the description of the Track Display option in “Console Preferences” on page 47.

## Creating Groups

**To create a group:**

- 1 Select the tracks you want to include in the group.
- 2 Press the Create switch in the Groups section. Current groups are shown in the LCD displays, with the group ID in the top row, and the group name in the bottom row.
- 3 Select the Group ID for the new group by pressing the corresponding encoder switch.
- 4 Enter a name, select a type, and set attributes for the group.
- 5 Press Enter to confirm the new group.
- 6 When you are finished creating groups, press the flashing Create switch.

## Enabling and Suspending Groups

**To enable or suspend a group:**

- 1 Press the Enable switch in the Groups section. Current groups are shown in the LCD displays, with the group ID in the top row, and the group name in the bottom row.
  - ◆ Enabled groups are indicated by lit encoder switches.
  - ◆ Suspended groups are indicated by flashing encoder switches.
- 2 Press encoder switches to enable or suspend the corresponding groups.
- 3 When you are finished enabling groups, press the flashing Enable switch.

## Modifying Groups

### To modify a group:

- 1 Press the Modify switch in the Groups section. Current groups are shown in the LCD displays, with the group ID in the top row, and the group name in the bottom row.
- 2 Select the group you want to modify by pressing the corresponding encoder switch. Group members are indicated by lit Channel Select switches. Track names are shown in the top row of LCD displays.
- 3 Press Channel Select switches to add or remove tracks from the group.
- 4 Press the Modify switch to confirm the changes.

## Deleting Groups

 *Deleting groups cannot be undone.*

### To delete a group:

- 1 Press the Delete switch in the Groups section. Current groups are shown in the LCD displays, with the group ID in the top row, and the group name in the bottom row.
- 2 Press lit encoder switches to delete the corresponding groups.
- 3 Do one of the following:
  - Press the Enter switch to confirm the deletion.
  - or –
  - Press the Esc/Cancel switch to cancel and leave groups unchanged.
- 4 When you are finished deleting groups, press the flashing Delete switch.

### To suspend all groups:

- Press the Suspend switch in the Groups section. The Suspend Groups switch follows latching behavior, and flashes to indicate groups are suspended.

### To exit Suspend Groups mode:

- Press the flashing Suspend Groups switch.

---

## Window Configuration View

C|24 lets you open and close the Window Configuration list and lets you display and select Window Configurations from the control surface. Window Configuration names are shown in the bottom row of the LCD displays.

If there are more Window Configurations than can be shown at once on the LCD displays, the Channel Bar Scroll switch flashes.

### To toggle display of the Window Configurations list on-screen:

- Press the Window Configuration (Win Cfg) switch.

### To toggle display of Window Configurations in the LCD displays:

- In Home view, hold the Command/Ctrl Modifier switch and press the Window Configuration (Win Cfg) switch.

### To recall a Window Configuration:

- In Window Configuration view, press the encoder switch that corresponds to the Window Configuration name in the LCD display.

**To edit a Window Configuration:**

- In Window Configuration view, hold the Ctrl/Win modifier switch and press the encoder switch that corresponds to the Window Configuration name in the LCD display.

**To create a new Window Configuration:**

- In Window Configuration view, hold the Ctrl/Win modifier switch and press an encoder switch that corresponds to a blank area of the LCD display.

**To exit Window Configuration view:**

- Hold the Command/Ctrl Modifier switch and press the flashing Window Configuration switch.

---

## Memory Location View

C|24 lets you open and close the Memory Locations window and display and select Memory Locations from the control surface.

In Memory Location view, Memory Location names are shown in the bottom row of the LCD displays.

If there are more Memory Locations than can be shown at once on the LCD displays, the Channel Bar Scroll switch flashes.

**To toggle display of the Memory Locations window on-screen:**

- Press the Memory Location (Mem Loc) switch.

**To toggle display of Memory Locations in the LCD displays:**

- In Home view, hold the Command/Ctrl Modifier switch and press the Memory Location switch.

**To recall a Memory Location:**

- In Memory Location view, press the encoder switch that corresponds to the location name in the LCD display.

**To edit a Memory Location:**

- In Memory Location view, hold the Ctrl/Win modifier switch and press the encoder switch that corresponds to the location name in the LCD display.

**To create a new Memory Location, do one of the following:**

- In Memory Location view, hold the Ctrl/Win modifier switch and press an encoder switch that corresponds to a blank area of the LCD display.

– or –

- In any view, press the Enter switch in the File/Utility section.

**To exit Memory Location view:**

- Hold the Command/Ctrl Modifier switch and press the flashing Memory Location switch.

---

## Fader Display Modes

### Normal Mode

In Normal mode, Pro Tools tracks are displayed on C|24 in a standard console format. In this mode, each channel strip corresponds to a track in the session, and most of the channel strip controls correspond directly to on-screen controls or views in Pro Tools:

- Faders control channel volume.
- LCD displays show track name, and track volume when fader is touched.
- Rotary encoders control channel pan.
- In Insert views, rotary encoders and encoder switches control inserts and plug-in parameters.
- In Send views, rotary encoders and encoder switches control Send pan, mute, and pre-post fader operation.

### Master Faders Mode

The Masters switch cycles temporary display of Master Fader tracks and VCA Master tracks (Pro Tools HD only) on the right side of the C|24 faders. The Masters switch flashes to indicate display of Master Faders or VCA Master tracks.

### Flip Modes

Flip mode temporarily exchanges control assignments between the rotary encoders and the corresponding channel faders, so you can use the touch-sensitive faders to edit and automate pan, send and plug-in parameter values.

The effect of Flip mode depends on the current view.

### Home/Pan Flip Mode

When C|24 is in Pan Console or “Home” view, Flip mode transfers control assignments as follows:

- Faders control channel pan.
- Rotary encoders control channel volume.

When an Instrument track is in MIDI mode, Flip mode transfers control assignments as follows:

- Faders control MIDI pan.
- Rotary encoders control MIDI volume.

### Send Flip Mode

Flip mode transfers Send control assignments as follows:

#### Sends Console View

- Faders control Send level.
- Rotary encoders control Send pan.
- For stereo Sends, control of Left and Right channel pan is selected with the L/R switch in the Pan section.
- For Sends to multichannel output paths, control of Send Pan parameters is selected in the Pan section of the Channel Bar
- Encoder switches control Send Mute or Send Pre/Post status, depending on the Switch Functions setting

#### Pan/Sends Channel View

- Fader under “Main Pan” controls channel pan.
- Fader under Send position name controls Send level.
- Fader under “SndPan” controls Send pan.
- Encoder switch under “Mute” controls Send mute.
- Encoder switch under “SndPan” controls Send pre/post operation.

### Expanded Pan/Expanded Send View

- Faders control Send parameters.
- Rotary encoders are disabled.
- Encoder switches toggle/cycle through stepped parameters.

### Plug-in Flip Mode

When C|24 is in Parameter view, Flip mode transfers the control assignments as follows:

- Faders control plug-in parameters.
- Rotary encoders are disabled.
- Encoder switches toggle/cycle through stepped parameters.

### Mic Pre Flip Mode

Flip mode transfers PRE control assignments to the faders and disables the encoders, as follows:

#### Mic Pre Console View

- Faders control PRE gain.

#### Mic Pre Expanded View

- Fader under “Gain” controls PRE gain.
- Fader under “Source” toggles the PRE input source.
- Fader under “Impedance” controls the Impedance setting.

---

## Assign Mode

You can assign Inputs, Outputs, Inserts, or Sends from C|24 using Assign mode.

When in Assign mode, an arrow (“>”) appears to the left of pathnames or plug-in names in the LCD displays to indicate the current assignment. The arrow disappears to when an unconfirmed change is displayed.

When navigating in Assign mode, you can move up a level by holding the Command/Ctrl switch and pressing the encoder switch for the control that you are assigning.

See “Assigning Pro Tools Paths” on page 91.



*You can enter Assign mode while in Flip mode. In Flip mode, move the faders (instead of the encoders) to scroll through lists in Assign mode.*



# Chapter 9: Working with C|24

This chapter covers representative Pro Tools tasks that can be accomplished with C|24. For complete information on C|24 controls for Pro Tools, see Chapter 6, “C|24 Pro Tools Controls.” For complete information on the views and modes available on C|24, see Chapter 8, “Operating Views and Modes.”

---

## Working with Sessions and Tracks

### Saving a Session

#### To save the current session:

- 1 Press the Save switch. The switch flashes, prompting confirmation of the Save command.
- 2 Do one of the following:
  - To confirm the Save command, press the Save switch again.
  - or –
  - To cancel the Save command, press the Esc/Cancel switch.

### Creating New Tracks

When you are creating new tracks in Pro Tools, you can navigate the New Tracks dialog using the Arrow switches on C|24.

#### To increase or decrease the number of tracks:

- Press the Up or Down Arrow switch.

#### To scroll through the track types:

- Hold the Command/Ctrl Modifier switch and press the Up or Down Arrow switch.

#### To scroll through the track formats:

- Hold the Command/Ctrl Modifier switch and press the Previous (Left) or Next (Right) Arrow switch.

#### To toggle the timebases:

- Hold the Command/Ctrl+Opt/Alt (all) Modifier switches and press the Up or Down Arrow switches.

## Naming Tracks or Adding Track Comments

When you are naming tracks or adding track comments, you can open and navigate the Name Track dialog from C|24.

### To open the Track Name/Comments dialog for a track:

- Double-press the channel's Select switch.

### To move the cursor while naming a track, do any of the following:

- Press the Previous (Left) or Next (Right) Arrow switch to move the cursor backward or forward through the field.
- Press the Up or Down Arrow switch to move the cursor to the beginning or end of the field.
- Hold the Command/Ctrl Modifier switch and press the Up (or Left) or Down (or Right) Arrow switch to move to the previous or next track name field.

## Resetting Controls to Their Default Values

### To reset a channel's track volume to 0 dB:

- Press Default + the channel Select switch.  
– or –
- Hold Option/Alt (all) and touch the channel fader.

### To reset a channel's pan control to 0 (center)

- Press Default + the encoder switch.

### To reset a send's level to 0 dB:

- Press Default + the encoder switch under "more." This sets the send level to 0 dB, regardless of the Send default setting in Pro Tools Operation preferences.

### To reset a channel's mic pre gain to 0 dB:

- Press Default + the encoder switch under the gain display.

### To set a plug-in's parameters to their default values:

- Press Default + the Compare switch.



You can also hold Option/Alt (all) and press the corresponding switch to reset parameters to their default values.

## Applying Actions to Multiple Tracks

### To apply actions to multiple tracks:

- 1 Do one of the following:
  - Press the Do To All or the Do To Selected switch to apply the action to one control.

– or –

  - Double-press the Do To All or the Do To Selected switch to latch the corresponding action and apply it to multiple controls.
- 2 Press any of the following switches to apply the corresponding action to all tracks or all selected tracks in the current session:
  - Channel Mute switch
  - Channel Solo switch
  - Channel Solo Safe: Command/Ctrl Modifier switch + Solo switch
  - Global Automation Mode switches
  - Channel Automation Mode switches
  - Channel Select switch
  - Record Enable switch
  - Record Safe: Command/Ctrl Modifier switch + Record Enable switch
  - Input Monitor Mode switch (Pro Tools HD Only)
- 3 You can also carry out any of the following tasks across all tracks or all selected tracks in the session:
  - Assigning Inputs, Outputs, Inserts and Sends
  - Deactivating Inserts
  - Resetting controls with the Default switch
  - Changing panner linkage
- 4 When you are finished, if Do To all or Do To Selected are latched on, press the flashing Do To All or Do To Selected switch to exit the corresponding mode.

---

## Assigning Pro Tools Paths

You can assign track inputs, outputs, sends, and inserts from C|24.

## Assigning Inputs and Outputs

### To assign inputs or Outputs:

- 1 From Pan Console (or “Home” view), press the Assign switch in the Assign section of the Channel Bar.
- 2 Press the Input switch or Output switch in the Assign section of the Channel Bar.
- 3 On each channel where you want to make an assignment, turn the rotary encoder (or in Flip mode, move the fader) to scroll through the list of Inputs or Outputs.
- 4 Do one of the following:
  - To confirm each assignment separately, press the flashing encoder switch on each channel.
  - To confirm all assignments at once, press the flashing Assign switch in the Assign section of the Channel Bar.
  - To cancel any unconfirmed assignments and leave Assign mode, press the flashing Escape/Cancel switch.

## Assigning Sends

### To assign a Send from Console view:

- 1 Press a Send switch in the Sends section of the Channel Bar.
- 2 Press the Assign switch in the Assign section of the Channel Bar.
- 3 Unassigned Send positions show the top level menu for assigning Send paths: “bus” or “interfc” (Interface).
- 4 Navigate the Send paths menu by doing the following:
  - Turn the encoder to scroll through menu items.
  - To go down a menu level, press the encoder switch that corresponds to the Send path.
  - To go up a level, hold the Command/Ctrl Modifier switch and press the encoder switch that corresponds to the Send path.
- 5 On each channel where you want to make an assignment, turn the rotary encoder to scroll through the list of Send paths.
- 6 Do one of the following:
  - To confirm each assignment separately, press the flashing encoder switch on each channel.
  - To confirm all assignments at once, press the flashing Assign switch in the Assign section of the Channel Bar.
  - To cancel any unconfirmed assignments and leave Assign mode, press the flashing Escape/Cancel switch.

### To assign a Send from Channel view:

- 1 Press the Send switch in the track’s channel strip. The Send positions for the track are shown in the LCD displays.
- 2 Press the Assign switch in the Assign section of the Channel Bar.
- 3 Unassigned Send positions show the top level menu for assigning Send paths: “bus” or “interfc” (Interface).
- 4 Navigate the Sends menu by doing the following:
  - Turn the encoder (or in Flip mode, move the fader) to scroll through menu items.
  - To go down a menu level, press the encoder switch that corresponds to “select.”
  - To go up a level, press the encoder switch that corresponds to “back.”
- 5 On each channel where you want to make an assignment, turn the rotary encoder to scroll through the list of Send paths.
- 6 Do one of the following:
  - To confirm each assignment separately, press the flashing encoder switch on each channel.
  - To confirm all assignments at once, press the flashing Assign switch in the Assign section of the Channel Bar.
  - To cancel any unconfirmed assignments and leave Assign mode, press the flashing Escape/Cancel switch.

## Assigning Inserts

### To assign an Insert:

- 1 Press the Insert switch in the track's channel strip. The Insert positions for the track are shown in the LCD displays.
- 2 Press the Assign switch in the Assign section of the Channel Bar.
- 3 Unassigned Insert positions show the top level menus for assigning inserts.
  - On Pro Tools HD: TDM, RTAS, MMTDM (multi-mono TDM), MMRTAS (multi-mono RTAS), HW Ins, No Insert
  - On Pro Tools LE: Plug-In, MM Plug (multi-mono plug-in) or Insert
- 4 Navigate the plug-ins menu by doing the following:
  - Turn the encoder (or in Flip mode, move the fader) to scroll through menu items.
  - To go down a menu level, press the encoder switch that corresponds to "select."
  - To go up a level, press the encoder switch that corresponds to "back."

If plug-ins are arranged by category or manufacturer, these appear in subsequent levels. The final level shows plug-in names.

- 5 Do one of the following:
  - To confirm each assignment separately, press the flashing encoder switch on each channel.
  - To confirm all assignments at once, press the flashing Assign switch in the Assign section of the Channel Bar.
  - To cancel any unconfirmed assignments and leave Assign mode, press the flashing Escape/Cancel switch.

### To remove an insert:

- While in Insert Select view, hold Default and press the encoder switch under the Insert.

## Making Single Assignments

Instead of putting C|24 in Assign mode, you can make single assignments from normal mode.

 *If making an assignment in Send Console mode, make sure the Send Pre/Post and Send/Mute switches are not active.*

### To assign single Inputs or Outputs:

- 1 Press the Input switch or Output switch in the Assign section of the Channel Bar.
- 2 Press and hold the encoder switch on the track where you want to make the assignment. The Assign switch flashes.
- 3 Turn the encoder to make the assignment.
- 4 Press the flashing encoder switch to confirm the assignment.

### To assign single Inserts or Sends:

- 1 Press the Insert or Send switch in the track's channel strip. The Insert or Send positions are shown in the LCD displays.
- 2 Do one of the following:
  - For an Insert or Send position with no assignment, press the encoder switch that corresponds to "assign,"
  - or –
  - For an Insert or Send position with a current assignment, press and hold the encoder switch that corresponds to "more."
- 3 Turn the encoder and press the "select" and "back" switches to make the assignment.
- 4 Press the flashing encoder switch to confirm the assignment.

---

## Working with Pro Tools Windows

### Entering Numerical Values in Pro Tools Windows

You can enter numerical values in the on-screen Main and Sub Counters, Start/End/Length fields, and Pre/Post Roll fields in the Edit and Transport windows.

#### To move the cursor between fields:

- Press the Previous (Left) or Next (Right) Arrow switch to move the numerical selection backward or forward through the field.

#### To increase or decrease the selected numerical value:

- Press the Up or Down Arrow switch.

### Displaying the Transport Window

You can show or hide portions of the Transport window and navigate fields in the window from C|24.

#### To show/hide the Transport window:

- Press the Transport switch in the Windows section.

#### To show/hide the MIDI section of the Transport window:

- Hold the Command/Ctrl Modifier switch and press the Transport switch.

#### To show/hide the Counter section of the Transport window:

- Hold the Ctrl/Win Modifier switch and press the Transport switch.

#### To show/hide the MIDI and Counter sections of the Transport window:

- Hold the Opt/Alt (all) Modifier switch and press the Transport switch.

#### To show/hide the Pre/Post-Roll section of the Transport window:

- Hold the Command/Ctrl+Ctrl/Win Modifier switches and press the Transport switch.

### Moving Windows On-Screen

#### To move a Pro Tools window horizontally on-screen:

1 In the Windows section, hold the switch for the window, and begin turning the Scrub/Shuttle wheel.

2 Release the switch for the window and continue turning the Scrub/Shuttle wheel to move the window on-screen.

#### To move a Pro Tools window vertically on-screen:

1 In the Windows section, hold the switch for the window, and begin turning the Scrub/Shuttle wheel.

2 Release the switch for the window and hold Shift while turning the Scrub/Shuttle wheel to move the window on-screen.

### Displaying Track Output Windows

#### To open/close the Output window for a track:

1 Press the Home switch to put C|24 in Pan Console view.

2 Hold the Ctrl/Win Modifier key and press the channel's encoder switch.

**To open/close Output windows for multiple tracks:**

- 1 Press the Home switch to put C|24 in Pan Console view.
- 2 Hold the Ctrl/Win+Shift (add) Modifier switches and press the encoder switch on each channel whose window you want to open or close.

**To close all open Output windows:**

- Hold the Opt/Alt (all) Modifier switch and press the Pan switch in the Windows section.

## Displaying Send Windows

**To open/close a Send window:**

- 1 Display a Send position (A-J) across all tracks by pressing the corresponding Send switch in the Sends section of the Channel Bar.
- 2 Hold the Ctrl/Win Modifier key and press the encoder switch on the channel whose Send window you want to open/close.

**To open/close Send windows for multiple tracks:**

- 1 Display a Send position (A-J) across all tracks by pressing the corresponding Send switch in the Sends section of the Channel Bar.
- 2 Hold the Ctrl/Win+Shift (add) Modifier switches and press the encoder switch on each channel whose window you want to open/close.

**To close all open Send windows:**

- Hold the Opt/Alt (all) Modifier switch and press the Pan switch in the Windows section.

## Displaying Plug-In Windows

**To focus a plug-in on C|24 and open its window:**

- 1 Press the Insert switch of the track whose plug-in you want to focus.
- 2 Press the encoder switch that corresponds to the Insert position for the plug-in.
  - ◆ The focused plug-in is indicated on C|24 by an asterisk below the Insert position.

**To open or close a plug-in window on-screen for an Insert without focusing it on C|24:**

- 1 Press the Insert switch in the track's channel strip.
- 2 Hold the Ctrl/Win Modifier switch and press the encoder switch that corresponds to "more" for the plug-in.

## Closing Floating Windows

**To close or reopen all floating windows:**

- Hold the Command/Ctrl+Opt/Alt (all) Modifier switches and press the Plug-in switch or the Pan switch in the Windows section.

---

## Recording

You can select certain record modes, record enable or record safe tracks for recording, arm the Pro Tools Transport, and initiate recording from C|24.

### Enabling Pro Tools for Recording

#### To enable tracks for recording:

- Press the Record Enable switch on each track you want to enable so that the switch flashes.

#### To toggle record-enabled status for all audio tracks in a session:

- Press the Master Record Enable switch in the Global Controls section.

#### To toggle record-enabled status for all MIDI tracks in a session:

- Hold the Opt/Alt (all) Modifier switch and press a Record Enable switch on a MIDI track.

#### To toggle the Input Monitor status on all tracks in a session (Pro Tools HD Only):

- Hold Option/Alt (all) switch and press the Input Monitor switch on a track.

#### To record safe a track:

- Hold the Command/Ctrl Modifier switch and press the track's Record Enable switch.

#### To arm the Pro Tools Transport for recording:

- Press the Record switch in the Transport section so that it flashes.

## Recording Audio

#### To record audio:

- 1 Record-enable the tracks where you want to record by pressing their Record Enable switches.
- 2 Arm Pro Tools for recording by pressing the Record switch in the Transport section.
- 3 Press the Play switch in the Transport section.
- 4 When you are finished, press the Stop switch in the Transport section.

### Loop Recording Audio

#### To loop record audio:

- 1 Press the Link Edit and Timeline switch in the Tools & Functions section so that it is lit.
- 2 Press the Loop Record switch in the Transport Modes section so that it is lit.
- 3 To hear track material up to the start of the loop, enable pre-roll by pressing the Pre-Roll switch in the Transport Modes section.
- 4 Select the range in the Edit window that you want to loop.
- 5 Record-enable the tracks where you want to record by pressing their Record Enable switches.
- 6 Arm Pro Tools for recording by pressing the Record switch in the Transport section.
- 7 Press the Play switch in the Transport section.
- 8 When you are finished, press the Stop switch in the Transport section.

## QuickPunch Recording

### To punch in/out while audio recording with QuickPunch:

- 1 Press the QuickPunch switch in the Transport Modes section so that it is lit.
- 2 To hear track material up to the start of the punch, enable pre-roll by pressing the Pre-Roll switch in the Transport Modes section.
- 3 Place the playback cursor at a location before the punch-in point.
- 4 Record-enable the tracks where you want to record by pressing their Record Enable switches.
- 5 Arm Pro Tools for recording by pressing the Record switch in the Transport section.
- 6 Press the Play switch in the Transport section.
- 7 When you reach a punch-in point, press the Record switch in the Pro Tools Transport.
- 8 When you reach a punch-out point, press the Record switch in the Pro Tools Transport again.

## Recording MIDI

### To record MIDI:

- 1 Enable the click by pressing the Click switch in the Tools & Functions section so that it is lit.
- 2 Enable either Wait For Note or Countoff by pressing the corresponding switch in the Tools & Functions section so that it is lit.
- 3 Record enable the MIDI or Instrument tracks where you want to record by pressing their Record Enable switches.
- 4 Arm Pro Tools for recording by pressing the Record switch in the Transport section.
- 5 Press the Play switch in the Transport section.

- 6 When you are finished, press the Stop switch in the Transport section.

## Loop Recording MIDI

### To loop record MIDI:

- 1 Press the Link Edit and Timeline switch in the Tools & Functions section so that it is lit.
- 2 Press the Merge-Record switch in the Tools & Functions section so that it is lit.
- 3 Press the Loop Playback switch in the Transport Modes section so that it is lit.
- 4 Enable the click by pressing the Click switch in the Tools & Functions section so that it is lit.
- 5 Disable Wait For Note and Countoff by pressing the corresponding switches in the Tools & Functions section so that they are unlit.
- 6 To hear track material up to the start of the loop, enable pre-roll by pressing the Pre-Roll switch in the Transport Modes section.
- 7 Select the range in the Edit window that you want to loop.
- 8 Record enable the MIDI or Instrument tracks where you want to record by pressing their Record Enable switches.
- 9 Arm Pro Tools for recording by pressing the Record switch in the Transport section.
- 10 Press the Play switch in the Transport section.
- 11 When you are finished, press the Stop switch in the Transport section.

---

## Navigating and Selecting in the Edit Window

### Zooming in the Edit Window

#### To zoom in horizontally on all tracks:

- 1 Press the Zoom switch.
- 2 Press the Right Arrow switch.

#### To zoom out horizontally on all tracks:

- 1 Press the Zoom switch.
- 2 Press the Left Arrow switch.

#### To zoom in vertically on all tracks:

- 1 Press the Zoom switch.
- 2 Press the Up Arrow switch.

#### To zoom out vertically on all tracks:

- 1 Press the Zoom switch.
- 2 Press the Down Arrow switch.

#### To horizontally zoom continuously in the Edit window:

- Hold hold the Command/Ctrl Modifier switch and turn the Scrub/Shuttle wheel.

#### To vertically zoom continuously in the Edit window:

- Hold the Command/Ctrl+Opt/Alt (all) Modifier switches and turn the Scrub/Shuttle wheel.

#### To zoom the current selection to fit the Edit window:

- Hold the Opt/Alt (all) Modifier switch and press the Zoom switch.

#### To zoom out so that all regions are visible in the Edit window:

- Double-press the Zoom switch.

### Using Zoom Presets

#### To store a Zoom Preset:

- 1 Using either the Horizontal Zoom buttons or the Zoomer tool, set the zoom level that you want to store.
- 2 Hold the Command/Ctrl Modifier switch and press a Zoom Preset switch.

#### To recall a Zoom Preset:

- Press the corresponding Zoom preset switch (1-5).

### Paging and Scrolling in the Edit Window

#### To page horizontally in the Edit window:

- 1 Press the Navigate switch.
- 2 Hold the Command/Ctrl Modifier switch and press the Previous (Left) or Next (Right) Arrow switch.

#### To page vertically in the Edit window:

- 1 Press the Navigate switch.
- 2 Hold the Command/Ctrl Modifier switch and press the Up or Down Arrow switch.

#### To horizontally scroll the contents of the Edit window or Mix window:

- 1 Focus the window you want to scroll by clicking in it or by pressing the corresponding window key.
- 2 Hold the Opt/Alt (all) Modifier switch while turning the Scrub/Shuttle Wheel.

**To vertically scroll the contents of the Edit window or Mix window:**

- 1 Focus the window you want to scroll by clicking in it or by pressing the corresponding window key.
- 2 Hold the Shift (add) Modifier switch while turning the Scrub/Shuttle Wheel.

## Selecting Audio

**To move the cursor or Edit selection up or down one track:**

- 1 Press the Navigate switch.
- 2 Press the Up or Down Arrow switch.

**To extend an Edit selection up or down one track:**

- 1 Press the Navigate switch.
- 2 Hold Shift and press the Up or Down Arrow switch.

**To create selections with the Scrub/Shuttle wheel:**

- 1 Locate the cursor in a track.
- 2 Do one of the following:
  - Hold the Mark In switch and turn the Scrub/Shuttle wheel counter-clockwise to create or extend the selection to the left.
  - or –
  - Hold the Mark Out switch and turn the Scrub/Shuttle wheel clockwise to create or extend the selection to the right.

**To scrub while adding to the front of a selection:**

- Hold the Ctrl/Win+Shift (add) Modifier switches while scrubbing the front of the selection.

**To scrub while adding to the end of a selection:**

- Hold the Ctrl/Win+Shift (add)+Opt/Alt (all) Modifier switches while scrubbing the end of the selection.

**To scrub with fine resolution while adding to the front of a selection:**

- Hold the Ctrl/Win+Shift (add)+Command/Ctrl Modifier switches while scrubbing the front of the selection.

**To scrub with fine resolution while adding to the end of a selection:**

- Hold the Ctrl/Win+Shift (add)+Command/Ctrl+Alt/Opt (all) Modifier switches while scrubbing the end of the selection.

## Navigating with the Transport

The Transport switches correspond to the controls in the Pro Tools Transport window: Rewind, Fast Forward, Stop, Play, and Record. The following transport functions are also available:

**To latch the transport in Rewind:**

- Hold the Rewind switch and press Fast Forward.

**To latch the transport in Fast Forward:**

- Hold the Fast Forward switch and press Rewind.

**To return the playback cursor to the beginning of the session:**

- Press the RTZ/E switch.

**To move the playback cursor to the end of the session:**

- Hold the Option/Alt (all) switch and press the RTZ/E switch.

## Scrubbing Audio in the Edit Window

### To scrub audio in Scrub mode:

- 1 While Pro Tools is stopped, press the Scrub switch.
- 2 Rotate the Scrub/Shuttle wheel clockwise to scrub audio forward, or counter-clockwise to scrub audio backward.
- 3 To exit, press the Scrub switch again.

### To latch the Scrub/Shuttle wheel in scrub mode:

- Press the Ctrl/Win Modifier switch momentarily (less than 1/2 second) while turning the Scrub/Shuttle wheel.

### To scrub with fine resolution:

- Hold the Command/Ctrl+Ctrl/Win Modifier switches while turning the Scrub/Shuttle Wheel.

## Scrubbing Without Entering Scrub Mode

You can use the Scrub/Shuttle wheel to scrub while the transport is stopped or during playback, without entering Scrub mode.

### To scrub during playback:

- 1 Click in a track you want to scrub.
- 2 Hold the Ctrl/Win Modifier switch while turning the Scrub/Shuttle wheel.

## Scrubbing while Trimming a Region or Selection

### (Pro Tools HD Only)

### To use Trim/Scrub mode:

- 1 Navigate to a region or selection you want to trim.
- 2 Press the Trim switch.



*To trim to the end of a selection, hold the Opt/Alt (all) Modifier switch while pressing the Trim switch.*

- 3 Press the Scrub switch.
- 4 Rotate the Scrub/Shuttle wheel to move the cursor to the trim location.
- 5 To trim to the cursor location or to the beginning of the selection, press the Trim switch again.

## Shuttling Audio in the Edit Window

### (Pro Tools HD Only)

### To use Shuttle mode:

- 1 While Pro Tools is stopped, press the Shuttle switch.
- 2 Rotate the Scrub/Shuttle wheel clockwise to shuttle forward, or counter-clockwise to shuttle backward.
- 3 To exit, press the Shuttle switch again.

## Auditioning Start and End Points of Selections

In Audition mode, you can listen to either the start or end of a selection, with or without pre-roll or post-roll.

### To play audio starting at the pre-roll point up to the start of a selection:

- 1 Press the Audition switch so that it is lit.
- 2 Press the Pre-Roll switch.

### To play audio starting at the selection start through the length of the post-roll amount:

- 1 Press the Audition switch so that it is lit.
- 2 Press the Mark In switch.

### To play audio back-timed from the selection end by the pre-roll amount:

- 1 Press the Audition switch so that it is lit.
- 2 Press the Mark Out switch.

### To play audio starting at the end of a selection through the post-roll amount:

- 1 Press the Audition switch so that it is lit.
- 2 Press the Post-Roll switch.

---

## Editing

### Selecting Edit Tools

You can select Edit tools by pressing the corresponding switches in the Tools & Functions section of C|24: Trim, Select, Grabber, Pencil, Smart Tool. The following Edit tool functions are also available:

#### To cycle through available versions of an Edit tool:

- Press the corresponding Edit tool switch to cycle through the versions of the tool.

#### To select the Smart Tool:

- Press the Smart switch.

– or –

- Press any combination of the Trim, Select, and Grabber switches.

#### To lock and unlock Shuffle mode:

- While in any Edit mode other than Shuffle mode, hold the Command/Ctrl Modifier switch and press the Shuffle switch.

### Cutting and Pasting

#### To copy the current edit selection:

- Press the Copy switch.

#### To paste a copied edit selection:

- Press the Paste switch.

**To copy the current plug-in settings:**

- 1 Focus the plug-in whose settings you want to copy. (For information on focusing plug-ins, see “Focusing Plug-Ins on C|24” on page 78.)
- 2 Hold the Shift (add) Modifier switch and press the Copy switch.

**To paste copied plug-in settings:**

- 1 Focus the plug-in where you want to paste copied settings. (For information on focusing plug-ins, see “Focusing Plug-Ins on C|24” on page 78.)
- 2 Hold the Shift (add) Modifier switch and press the Paste switch.

## Undoing Pro Tools Operations

**To undo an action:**

- Press the Undo switch.

**To redo an action:**

- Press the Redo switch.

---

## Controlling Track Display on C|24

### Banking and Nudging Tracks

**To bank the position of tracks on C|24 forward or backward 24 channels at a time:**

- Press the lit Bank Left or Bank Right switch.

**To nudge the position of tracks on C|24 one channel at a time:**

- 1 Press the Nudge switch so that it is lit.
- 2 Press the Bank Left or the Bank Right switch.

**To cascade the position of tracks on C|24 one channel at a time:**

- Hold any of the Nudge/Bank switches and turn the Scrub/Shuttle wheel clockwise or counterclockwise.

### Transferring Controls to the Faders Using Flip Mode

**To transfer controls from the rotary encoders to the touch-sensitive faders:**

- Press the Flip switch.

In Flip mode, faders can control channel pan, Send level, Send pan, or plug-in parameters, depending on the current view. See “Flip Modes” on page 86.

**To return controls to Normal mode:**

- Press the flashing Flip switch.

### Muting C|24 Fader Movement

You can temporarily turn off C|24 faders to prevent fader movement noise when monitoring a mix.

**To toggle C|24 fader movement off and on:**

- 1 Press the Soft Keys switch.
- 2 Press the encoder switch that corresponds to “Faders.”
- 3 Press the flashing Soft Keys switch to exit.

---

## Mixing

### Displaying Master Faders and VCA Masters

You can temporarily focus the Master Faders or VCA Master tracks (VCA Master tracks are available in Pro Tools HD only) in your session in the right side of the C|24 faders.

#### To display Master Faders or VCA Masters:

- Press the Masters switch repeatedly to cycle display of the available track types.

## Working with Automation

### Displaying the Automation Playlist for a Control

#### To display the automation playlist on-screen for a fader:

- Hold the Command/Ctrl+Ctrl/Win Modifier switches and touch the fader.

#### To display the automation playlist on-screen for an encoder:

- Hold the Command/Ctrl+Ctrl/Win Modifier switches and press the corresponding encoder switch.

### Setting the Automation Mode of Channels

#### To cycle a channel forward through the automation modes:

- Press the Automation Mode switch on the channel.

#### To cycle a channel backward through the automation modes:

- Hold the Shift (add) Modifier switch and press the Automation Mode switch on the channel.

#### To toggle a channel in and out of Trim mode (Pro Tools HD Only):

- Hold the Trim switch in the Automation Modes section and press the channel's Select or Auto switch.

#### To set the automation mode of one or more channels:

- 1 Hold an Automation Mode switch or switches (Write, Touch, Latch, Touch+Latch, Trim, Read, or Off).
- 2 Press the Select switch or Auto switch on the channels whose automation mode you want to set.

#### To set the automation mode of one or more selected channels:

- 1 Press the Do To Selected switch.
- 2 Press the Select switches on the channels whose automation mode you want to set.
- 3 Press an Automation Mode switch or switches (Write, Touch, Latch, Touch+Latch, Trim, Read, or Off).

#### **To set the automation mode of all channels:**

- 1 Press the Do To All switch.
- 2 Press an Automation Mode switch or switches (Write, Touch, Latch, Touch+Latch, Trim, Read, or Off).

### **Suspending Automation**

#### **To suspend automation for all channels:**

- Press the Suspend switch in the Automation Enable section.

#### **To toggle the write enable status of an automation type across all channels:**

- Press the switch for the corresponding automation type (Volume, Pan, Mute, Send Level, Send Pan, Send Mute, or Plug-In) in the Automation Enable section.

### **Enabling Plug-in Automation**

#### **To toggle the automation enable status of plug-in parameters:**

- 1 Press the Insert switch in the track's channel strip.
- 2 For the plug-in you want to display, press the encoder switch that corresponds to "more."
- 3 Press the Select/Auto switch in the Switch Functions section so that it is lit.
- 4 Press the encoder switches for the parameters whose automation enable status you want to change. The encoder switch lights to indicate that a parameter is enabled.
- 5 When you are finished, press the Select/Auto switch in the Switch Functions section so that it is unlit.

#### **To toggle the automation bypass status of a plug-in:**

- 1 Press the Insert switch in the track's channel strip.
- 2 For the plug-in you want to display, press the encoder switch that corresponds to "more."
- 3 Press the Select/Auto switch in the Switch Functions section so that it is lit.
- 4 Press the Master Bypass switch in the Inserts section of the Channel Bar.
- 5 When you are finished, press the Select/Auto switch in the Switch Functions section so that it is unlit.

### **Punching Out of Plug-in Automation During an Automation Pass**

#### **To punch out of writing automation for a plug-in parameter during an automation pass:**

- 1 Press the Insert switch in the track's channel strip.
- 2 For the plug-in you want to display, press the encoder switch that corresponds to "more."
- 3 Press the Select/Auto switch in the Switch Functions section so that it is lit.
- 4 Press Play to begin the automation pass.
- 5 During the automation pass, press a flashing encoder switch to punch the corresponding parameter out of automation write mode.
- 6 When you are finished, press the Select/Auto switch in the Switch Functions section so that it is unlit.

## Previewing Automation

(Pro Tools HD Only)

**To preview a new automation value for a control:**

- 1 Enable the track for automation by cycling its Automation Mode switch to enable Touch, Latch, or Touch/Latch mode.
- 2 Enable the automation type by pressing its switch in the Automation Enable section.
- 3 Hold the Command/Ctrl Modifier switch and press the Off switch in the Global Automation Modes section. The Off switch flashes to indicate Preview mode.
- 4 Isolate a control by moving it.
- 5 Start playback and adjust the isolated control to audition the new automation value.

**To suspend Preview mode:**

- Hold the Command/Ctrl Modifier switch and press the Read switch in the Global Automation Modes section.

**To punch a preview value to the automation playlist:**

- Hold the Command/Ctrl Modifier switch and press the flashing Off switch in the Global Automation Modes section.

## Capturing Automation

(Pro Tools HD Only)

**To capture automation values:**

- 1 Enable the tracks whose automation values you want to capture by cycling their Automation Mode switches to a write-enabled state (Write, Touch, Touch/Latch, or Latch).
- 2 Enable all of the automation types you want to capture by pressing their switches in the Automation Enable section.
- 3 Start playback.
- 4 When you reach a location where you want to capture the current automation states, hold the Command/Ctrl Modifier switch and press the Touch switch in the Global Automation Modes section.

**To punch captured automation values:**

- 1 Move to a location where you want to apply the captured automation states.
- 2 Hold the Command/Ctrl+Ctrl/Win Modifier switches and press the Touch switch in the Global Automation Modes section.

## AutoMatching Controls

(Pro Tools HD Only)

**To AutoMatch all currently writing controls:**

- 1 Make sure the automation types you want to AutoMatch are write-enabled.
- 2 Start playback.
- 3 When you reach a point in the session where you want to return controls to their previously written values, hold the Command/Ctrl Modifier switch and press the Latch switch in the Global Automation section.

## Joining Automation Values

(Pro Tools HD Only)

### To Join automation values:

- 1 Make sure the controls you want to join are in a write-enabled state.
- 2 Stop playback during an automation pass.
- 3 Start playback.
- 4 When you want to resume automation writing at the previous values, hold the Command/Ctrl+Ctrl/Win Modifier switches and press the Latch switch in the Global Automation section.

## Writing Automation to the Start End, or All of a Track or Selection

(Pro Tools HD Only)

### To manually write the current automation values to the start, end, or all of a track or selection:

- Press the Start, End, or All switch in the Auto Write To section during playback.

### To manually write the current automation values back to the punch point or to the next breakpoint in a track:

- Press the Punch or Next switch in the Auto Write To section during playback.

## Writing Automation to the Start End, or All of a Track or Selection on Stop

(Pro Tools HD Only)

### To enable/disable automatic Write to All/Start/End/Punch/Next on Stop for a single automation pass:

- Hold the Ctrl/Win Modifier switch and press the All, Start, End, Punch, or Next switch in the Auto Write To section.

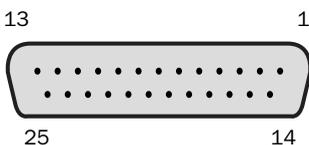
### To latch on/turn off automatic Write to All/Start/End/Punch/Next on Stop for all automation passes:

- Hold the Ctrl/Win+Opt/Alt (all) Modifier switches and press the All, Start, End, Punch, or Next switch in the Auto Write To section.

# Appendix A: C|24 Connector Pinouts

## Female DB-25 Connectors

All C|24 DB-25 connector pinouts conform to the pin numbering scheme shown below.



DB-25 Connector (user view)

## Preamps 1-8

### Mic In 1-8

Mic Preamp Inputs 1-8

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Preamp Mic In 1	24	12	25
2 Preamp Mic In 2	10	23	11
3 Preamp Mic In 3	21	9	22
4 Preamp Mic In 4	7	20	8

Mic Preamp Inputs 1-8

Channel	Hot (+)	Cold (-)	Ground (shield)
5 Preamp Mic In 5	18	6	19
6 Preamp Mic In 6	4	17	5
7 Preamp Mic In 7	15	3	16
8 Preamp Mic In 8	1	14	2

## Line/DI In 1-8

Mic Preamp Inputs 1-8

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Preamp Line In 1	24	12	25
2 Preamp Line In 2	10	23	11
3 Preamp Line In 3	21	9	22
4 Preamp Line In 4	7	20	8
5 Preamp Line In 5	18	6	19
6 Preamp Line In 6	4	17	5
7 Preamp Line In 7	15	3	16
8 Preamp Line In 8	1	14	2

## Line Out 1–8

### Preamp Line Outputs 1–8

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Preamp Line Out 1	24	12	25
2 Preamp Line Out 2	10	23	11
3 Preamp Line Out 3	21	9	22
4 Preamp Line Out 4	7	20	8
5 Preamp Line Out 5	18	6	19
6 Preamp Line Out 6	4	17	5
7 Preamp Line Out 7	15	3	16
8 Preamp Line Out 8	1	14	2

## Preamps 9–16

### Mic In 9–16

#### Mic Preamp Inputs 9–16

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Preamp Mic In 9	24	12	25
2 Preamp Mic In 10	10	23	11
3 Preamp Mic In 11	21	9	22
4 Preamp Mic In 12	7	20	8

### Mic Preamp Inputs 9–16

Channel	Hot (+)	Cold (-)	Ground (shield)
5 Preamp Mic In 13	18	6	19
6 Preamp Mic In 14	4	17	5
7 Preamp Mic In 15	15	3	16
8 Preamp Mic In 16	1	14	2

## Line/DI In 9–16

### Mic Preamp Inputs 9–16

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Preamp Line In 9	24	12	25
2 Preamp Line In 10	10	23	11
3 Preamp Line In 11	21	9	22
4 Preamp Line In 12	7	20	8
5 Preamp Line In 13	18	6	19
6 Preamp Line In 14	4	17	5
7 Preamp Line In 15	15	3	16
8 Preamp Line In 16	1	14	2

## Line Out 9–16

### Preamp Line Outputs 9–16

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Preamp Line Out 9	24	12	25
2 Preamp Line Out 10	10	23	11
3 Preamp Line Out 11	21	9	22
4 Preamp Line Out 12	7	20	8
5 Preamp Line Out 13	18	6	19
6 Preamp Line Out 14	4	17	5
7 Preamp Line Out 15	15	3	16
8 Preamp Line Out 16	1	14	2

## Submixer 1–8 ST

### Submix In 1–4 (ST)

#### Submixer Stereo Inputs 1–4

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Submixer In 1 Left	24	12	25
2 Submixer In 1 Right	10	23	11
3 Submixer In 2 Left	21	9	22
4 Submixer In 2 Right	7	20	8
5 Submixer In 3 Left	18	6	19
6 Submixer In 3 Right	4	17	5
7 Submixer In 4 Left	15	3	16
8 Submixer In 4 Right	1	14	2

## Submix In 5–8 (ST)

### Submixer Stereo Inputs 5–8

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Submixer In 5 Left	24	12	25
2 Submixer In 5 Right	10	23	11
3 Submixer In 6 Left	21	9	22
4 Submixer In 6 Right	7	20	8
5 Submixer In 7 Left	18	6	19
6 Submixer In 7 Right	4	17	5
7 Submixer In 8 Left	15	3	16
8 Submixer In 8 Right	1	14	2

## Monitor Section

### Pro Tools In

#### Pt 1–6 + Cue 1–2

#### Pro Tools and Cue Inputs

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Main In Left	24	12	25
2 Main In Center	10	23	11
3 Main In Right	21	9	22
4 Main In Left Surround	7	20	8
5 Main In Right Surround	18	6	19
6 Main In LFE	4	17	5
7 Cue In Left	15	3	16
8 Cue In Right	1	14	2

## Surround In

### Alt Sur 1–6

#### Alternate Surround Inputs (1–6)

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Alt Surround In Left	24	12	25
2 Alt Surround In Center	10	23	11
3 Alt Surround In Right	21	9	22
4 Alt Surround In Left Surround	7	20	8
5 Alt Surround In Right Surround	18	6	19
6 Alt Input LFE	4	17	5
7 (unused)	15	3	16
8 (unused)	1	14	2

## Ext Stereo In

### Ext St 1 + St 2

#### External Stereo Inputs 1 and 2

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Stereo In 1 Left	24	12	25
1 Stereo In 1 Right	10	23	11
3 Stereo In 2 Left	21	9	22
4 Stereo In 2 Right	7	20	8
5 (unused)	18	6	19
6 (unused)	4	17	5
7 (unused)	15	3	16
8 (unused)	1	14	2

## Control Room Out

### 5.1 Mon Out L:1 R:3

#### Main and Alternate Outputs

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Main Out Left	24	12	25
2 Main Out Center	10	23	11
3 Main Out Right	21	9	22
4 Main Out Left Surround	7	20	8
5 Main Out Right Surround	18	6	19
6 Main Out LFE	4	17	5
7 Alt Out Left	15	3	16
8 Alt Out Right	1	14	2

## Cue Outputs

### Cues + SLS + TB

#### Cue and Studio LS Monitor Outputs

Channel	Hot (+)	Cold (-)	Ground (shield)
1 Cue Out Left	24	12	25
2 Cue Out Right	10	23	11
3 Studio LS Out Left	21	9	22
4 Studio LS Out Right	7	20	8
5 Talkback Slate Out	18	6	19
6 (unused)	4	17	5
7 (unused)	15	3	16
8 (unused)	1	14	2

---

## XLR and TRS Connectors

### XLR Mic Inputs

Channel	Hot (+)	Cold (-)	Ground (shield)
all XLR Mic Inputs (female)	2	3	1

### TRS 1/4-Inch Inputs and Outputs

Channel	Hot (+)	Cold (-)	Ground (shield)
all TRS 1/4-inch I/O	Tip	Ring	Sleeve

# Appendix B: Utility Mode

C|24 Utility mode lets you run diagnostic tests, set hardware preferences, view system information, and reset system settings.

---

## Entering and Exiting Utility Mode

You can enter Utility mode at any time to change C|24 settings.

### To enter Utility mode:

- Press the Utility switch.

The top level Utility options are shown in the LCD displays. The Utility switch flashes to indicate Utility mode is active.

### To exit Utility mode:

- Press the encoder switch that corresponds to “Exit.”
  - or –
- Press the flashing Utility switch.

**⚠** *If you are displaying a Utility mode page and press the Utility switch to exit before saving, any changes will be lost.*

---

## Tests

The C|24 Test pages let you test the mechanical and electronic components of the unit.

### To display the Test pages:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “Tests.”

### To enter a Test page:

- Press the encoder switch that corresponds to the test name.

### To exit the Test pages:

- Press the encoder switch that corresponds to “Exit.”

## Ethernet Test Page

There are two test levels for Ethernet communication on C|24: Internal and External.

Each test sends data packets through the C|24 Ethernet system. The “Sent” and “Received” values for each test show the number of packets sent and received in the test, and the “Errors” and “Retries” fields show percentage error in the transmission and receiving process. An error rate of 1 percent or less generally indicates acceptable performance. (In normal operation, errors are retried and no data loss occurs.)

## Internal

The Internal test verifies the first stage of Ethernet communication by sending data packets through the unit's Ethernet link chip.

### To perform the Internal Ethernet test:

- From the Ethernet Test page, press the encoder switch that corresponds to "Internal."

### To restart the "Sent" and "Received" packet counts:

- Press the encoder switch that corresponds to "Restart Counts."

### To exit the Internal Ethernet test:

- Press the encoder switch that corresponds to "Exit."

## External

The External test verifies the second stage of Ethernet communication by sending data packets out of the C|24 Ethernet port and back into the unit using an Ethernet loopback connector (included with C|24).

### To perform the External Ethernet test:

- 1 If Pro Tools is running, quit Pro Tools.
- 2 Disconnect C|24 from the Ethernet network.
- 3 Plug the Ethernet Loopback connector into the C|24 Ethernet port.
- 4 From the Ethernet Test page, press the encoder switch that corresponds to "External."

### To restart the "Sent" and "Received" packet counts:

- Press the encoder switch that corresponds to "Restart Counts."

### To exit the External Ethernet test:

- Press the encoder switch that corresponds to "Exit."

## LED Test Page

The LED tests let you test all red, yellow, or green LEDs on C|24 individually.

### To test the LEDs:

- From the LED Test page, press the encoder switch that corresponds to any of the following to test all LEDs of the specified color:
  - Red LEDs
  - Yellow LEDs
  - Green LEDs

### To exit an LED test:

- Press the encoder switch that corresponds to "Exit."

## Vegas Mode

Vegas mode randomly lights every switch, meter, and display on the unit, and runs the faders in a sine wave pattern.

### To enter Vegas mode:

- Press the encoder switch that corresponds to "Vegas Mode."

### To vary the rate of LED blinking and fader motion:

- Turn the Scrub/Shuttle wheel or any rotary encoder.

### To exit Vegas mode:

- Press any switch on the unit.

## Display Test Page

The Display tests let you test the LCD displays and the Main Counter on C|24.

### To test the LCD displays:

- From the Display Test page, press the encoder switch that corresponds to one of the following:
  - ASCII Set: Shows the entire ASCII character set at once.
  - ASCII Step: Cycles through the ASCII character set on each LCD segment.

### To test the Main Counter:

- From the Display Test page, press the encoder switch that corresponds to “Timecode.”

The Main Counter cycles through 0-9 and the Time Display Format Indicators light.

### To exit a Display test:

- Press the encoder switch that corresponds to “Exit.”

## Fader Test Page

The Fader tests let you test and recalibrate the C|24 faders.

### To test the faders:

- From the Fader Test page, press the encoder switch that corresponds to any of the following:

**Step** Faders move together, in stepped fashion, to positions that are adjustable with the Scrub/Shuttle wheel. Fader position values are shown in the LCD displays (0-1023).

**Cycle** Faders move together, from the bottom to top, in a continuous cycle, at a speed that is adjustable with the Scrub/Shuttle wheel. Fader position values are shown in the LCD displays (0-1023).

**Group** Faders can be moved to test group response. Fader position values are shown in the LCD displays (0-1023). This test shows which faders are currently being touched by displaying the letter “T” in the LCD displays above the faders.

**Touch** Each fader can be touched to show touch sensitivity. The LCD displays show the frequency that the fader is currently recognizing. This test shows which faders are currently being touched by displaying the letter “T” in the LCD displays above the faders.

### To exit a Fader test:

- Press the encoder switch that corresponds to “Exit.”

## Recalibrating the Faders

The Recalibrate command recalibrates the touch sensitivity and position of all faders to factory specifications.

### To recalibrate the faders:

- From the Fader Test page, press the encoder switch that corresponds to “Recalibrate.”

## Rotary Test Page

The Rotary test lets you test the C|24 rotary encoders that have LED rings (the 24 channel rotary encoders and the Control Room encoder).

The Rotary test shows two values:

- Delta: Shows the direction and speed an individual encoder is being turned.
- Cumulative: Shows the number of steps that all of the encoders have been turned during the text.

### To test the rotary encoders:

- From the Rotary Test page, turn any encoder.

## Switch Test Page

The Switch test lets you test each switch on C|24 individually.

### To test any switch:

- From the Switch Test page, press the switch you want to test.

The switch LED lights as long as it is held, and the LCD displays show the location information for the switch.

### To exit the Switch test:

- Press the encoder switch that corresponds to “Exit.”

---

## Preferences

The C|24 Preferences pages let you set preferences for Talkback microphone operation, mic/line/DI preamplifier clip indication, and footswitch operation.

## Talkback

### External Talkback Microphone

You can choose to use an external Talkback microphone instead of the built-in Talkback microphone in the C|24 Meter Bridge.

When the external Talkback microphone is enabled, the built-in Talkback microphone is automatically disabled.

### To enable the external Talkback microphone:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “Preferences.”
- 3 Press the encoder switch that corresponds to “Talkback.”
- 4 Press the encoder switch that corresponds to “Ext TB Mic” to toggle the external talkback input On or Off.
- 5 When you are finished, press the encoder switch that corresponds to “Save.”
- 6 Press the Exit switch to exit Utility mode.

### Talkback Latching

You can set Talkback to latch on when the Talkback switch is double-pressed.

- ◆ When Talkback latching is Off, the Talkback switch follows momentary behavior only.

When Talkback latching is On, the Talkback switch follows momentary behavior when held, and latches on and off when double-pressed. When latched on, the Talkback switch flashes.

### To toggle Talkback latching:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “Preferences.”
- 3 Press the encoder switch that corresponds to “Talkback.”
- 4 Press the encoder switch that corresponds to “TB Latching” to toggle Talkback latching capability On or Off.
- 5 When you are finished, press the encoder switch that corresponds to “Save.”
- 6 Press the Exit switch to exit Utility mode.

## Mic Pre Clip Hold

You can set the Clip Hold time for the C|24 built-in mic/line/DI preamplifiers.

### To set the Clip Hold time:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to "Preferences."
- 3 Press the encoder switch that corresponds to "Analog."
- 4 Press the encoder switch that corresponds to one of the following:
  - No Hold
  - 3 Sec Hold
  - Infinite Hold
- 5 When you are finished, press the encoder switch that corresponds to "Save."
- 6 Press the Exit switch to exit Utility mode.

## Footswitch Function and Polarity

You can set the function and polarity for the two Footswitch connectors on C|24.

### To set Footswitch function:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to "Preferences."
- 3 Press the encoder switch that corresponds to "Footswitch."

4 For each Footswitch (A and B), press the encoder switch that corresponds to any of the following:

- Play: Starts and stops the Pro Tools Transport.
- Record: Arms the Transport for recording or punches in and out of Record.
- Talkback: Toggles Talkback On and Off.

5 When you are finished, press the encoder switch that corresponds to "Save."

6 Press the Exit switch to exit Utility mode.

### To set Footswitch polarity:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to "Preferences."
- 3 Press the encoder switch that corresponds to "Footswitch."
- 4 Press the encoder switch under "FS A Polarity" (Footswitch A) or "FS B Polarity" (Footswitch B) to toggle polarity between "Normal" and "Inverted."
- 5 When you are finished, press the encoder switch that corresponds to "Save."
- 6 Press the Exit switch to exit Utility mode.

---

## System

The C|24 System pages let you view component firmware versions and Ethernet information, name the C|24 unit, and reset the C|24 to its factory settings.

### Firmware Versions

This page shows the Comm board and Motor Control board firmware versions.

#### To view the current firmware versions for C|24 components:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “System.”
- 3 Hold the encoder switch that corresponds to “FW Versions.”
- 4 When you are finished, press the encoder switch that corresponds to “Exit.”

### Ethernet

This page shows the following information for the C|24:

- Unit Name (as named on the Unit Name page)
- Unit Number: Digidesign serial number for the unit
- Frame Type: Ethernet packet type used by Digidesign for control surface communication
- Ethernet ID: Ethernet address (Machine Address Code) for the unit

#### To view the Ethernet information for C|24:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “System.”
- 3 Hold the encoder switch that corresponds to “Ethernet.”
- 4 When you are finished, press the encoder switch that corresponds to “Exit.”

### Unit Name

This page lets you view, change, or reset the C|24 Unit Name.

#### To name C|24 from the unit:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “System.”
- 3 Press the encoder switch that corresponds to “Unit Name. “

The unit name appears in the LCD displays. The first character of the name flashes to indicate text entry.

- 4 To change the selected character, turn the encoder under “Character.”
- 5 To move forward and backward in the text field, turn the encoder under “Position.”
- 6 When you are finished, press the encoder switch that corresponds to “Save.”

### **To set the C|24 name to the default:**

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “System.”
- 3 Press the encoder switch that corresponds to “Unit Name. “
- 4 Press the encoder switch that corresponds to “Default.”
- 5 Press the encoder switch that corresponds to “Save.”

## **Resetting User Preferences**

This page lets you reset C|24 Footswitch preferences, Talkback preferences and Clip Hold time for the built-in mic/line/DI preamplifiers to their default values.

### **To reset the C|24 user preferences:**

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “System.”
- 3 Hold the encoder switch that corresponds to “Reset User Prefs.”
- 4 Do one of the following:
  - To confirm the reset, press the encoder switch that corresponds to “OK.”
  - or –
  - To cancel the reset, press the encoder switch that corresponds to “Cancel.”
- 5 When you are finished, press the encoder switch that corresponds to “Exit.”

## **Resetting Analog Signal Routing**

This page lets you reset C|24 monitor and cue source selections, and Monitor solo, phantom power, Mic/Line and HPF settings to their default values.

### **To reset monitor signal routing:**

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “System.”
- 3 Hold the encoder switch that corresponds to “Reset Analog Routes.”
- 4 Do one of the following:
  - To confirm the reset, press the encoder switch that corresponds to “OK.”
  - or –
  - To cancel the reset, press the encoder switch that corresponds to “Cancel.”
- 5 When you are finished, press the encoder switch that corresponds to “Exit.”

## Resetting Monitor Gain Settings

This page lets you reset gain and trim levels in the C|24 monitor section (set with the Control Room rotary encoder) to their default values.

### To reset monitor gain levels and trim offsets:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “System.”
- 3 Hold the encoder switch that corresponds to “Reset Monitor Gains.”
- 4 Do one of the following:
  - To confirm the reset, press the encoder switch that corresponds to “OK.”
  - or –
  - To cancel the reset, press the encoder switch that corresponds to “Cancel.”
- 5 When you are finished, press the encoder switch that corresponds to “Exit.”

---

## Auto Talkback

Auto Talkback is a setting that automatically turns on the Talkback and Listen microphones when the Pro Tools Transport is stopped, and turns the Talkback and Listen microphones off when the Pro Tools Transport is running.

### To activate Auto Talkback:

- 1 Press the Utility switch.
- 2 Press the encoder switch that corresponds to “Auto Talkback” to toggle the Auto Talk option On and Off.
- 3 When you are finished, press the encoder switch that corresponds to “Exit.”

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