



# MC Mix User Guide

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Product features, specifications, system requirements, and availability are subject to change without notice.

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# Chapter 1: Introduction: The Artist Series Media Controller

The MC Control, MC Mix, and MC Transport comprise the Artist Series family of media controllers. They use a 100 Mbps Ethernet EUCON™ connection to control audio and video applications running on a workstation computer. EUCON is a high-speed communication protocol and enables control of virtually every application feature.

Each Artist Series media controller can run as a standalone device. Up to four MC Mixes can be used with an optional MC Control and/or MC Transport to create a larger control surface. Artist Series media controllers borrow many features from the Euphonix MC Pro and System 5-MC.



*Artist Series Media Controllers*

The MC Mix supports two types of applications:

- EUCON-aware applications (such as Pro Tools™ 9.0 and higher, Cubase, Logic Pro, and Nuendo) directly support the EUCON protocol. They provide the highest level of integration, high-resolution controls, and high-speed connectivity.
- Non-EUCON-aware applications that support Mackie Control or HUI (such as Pro Tools 8.x and lower, Live, and Reason) can use many functions but are less integrated than EUCON-aware applications.

## EuControl Software

The EuControl software application is responsible for finding, linking, and communicating with all Artist Series controllers on the network. EuControl must be installed on the computer that runs the applications you want to control before using Artist Series controllers.

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## What's Included

- MC Mix, with riser brackets
- EuControl software installer disc
- 1 Ethernet Crossover cable
- Power supply
- MC Mix Quick Setup
- Registration Information Card

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## System Requirements and Compatibility

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

For downloads and other Artist Series resources, visit:

[www.avid.com/artistsupport](http://www.avid.com/artistsupport)

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## Registration

Review the enclosed Registration Information Card and follow the instructions on it to quickly register your purchase online.

By registering, you become eligible to receive the following:

- Technical support information
  - Software update and upgrade notices
  - Hardware warranty information
- 

## About This Guide


### Conventions Used in This Guide


All of our 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 N key
Control-click	Hold down the Control key and click the mouse button
Right-click	Click with the right mouse button


The names of Commands, Options, and Settings that appear on-screen are in a different font.

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 Avid guides.*

## Hardware Keys on Artist Series Units

The names of keys on Artist Series hardware are in bold (such as **SEL**).

The **SHIFT** key on Artist Series hardware is indicated by bold text, in all-caps (**SHIFT**) to distinguish it from references to the Shift key on your QWERTY keyboard.

### SHIFT and SHIFT Lock

The **SHIFT** key on Artist Series units is used in conjunction with other keys to access secondary functions that are labeled in blue above the primary function. MC Transport provides a single **SHIFT** key at the bottom-right. Two **SHIFT** keys are located at the bottom-left and -right on both MC Control and MC Mix.

The following terminology is used to describe **SHIFT** functions.

Example:

- “Press and hold the SHIFT key then press the AUX key”  
is written as
- “Press **SHIFT+AUX/GROUP**”

## How to Use this PDF Guide

The Acrobat PDF version of this manual can be a valuable online resource. These are some useful features of the PDF:

- The Bookmarks on the left serve as a continuously visible table of contents. Click on a subject heading to jump to that page. Click a + symbol to expand that heading to show subheadings. Click the – symbol to collapse a subheading.
- The manual’s table of contents provides active links to their pages. Select the hand cursor, allow it to hover over the heading until it turns into a finger. Then click to locate to that subject and page.
- All cross references are active links. Allow the hand cursor to hover over the reference until it turns into a finger and click to follow the reference.
- Use the left and right arrow keys on the bottom bar to go back and forth between views. This is a great way to follow a cross reference and return to the page from which you were reading.
- Select the Find item from the Edit menu to search for a subject. This can be used as an “index on the fly.”
- Use the magnifying glass tool or the zoom edit box on the top bar to zoom in/out. This is helpful when examining a complex graphic or setting the text size for easy reading online.

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## About [www.avid.com](http://www.avid.com)

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

**Product Registration** Register your purchase online.

**Support and Downloads** Contact Avid Customer Success (technical support); download software updates and the latest online manuals; browse the Compatibility documents for system requirements; search the online Knowledge Base or join the worldwide Pro Tools community on the User Conference.

**Training and Education** 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 Avid products; download demo software or learn about our Development Partners and their plug-ins, applications, and hardware.

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





# Chapter 2: Setup and Installation

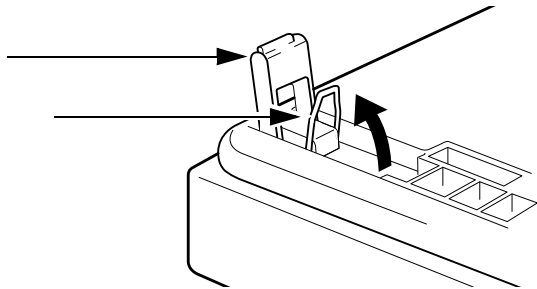
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## Unpacking and Elevating the MC Mix

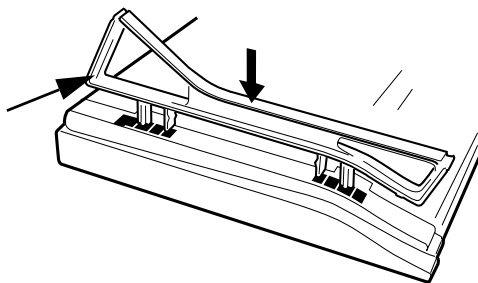
Unpack MC Mix, power supply, Installer disc, Ethernet crossover cable, and riser brackets.

MC Mix can be elevated or angled using small foldout legs on the bottom of the unit, or elevated and angled by attaching the larger riser brackets. Since both methods require turning the unit upside down, do this before attaching any cables. Turn the unit over and place it on a soft surface.

Pull out all four of the small foldout legs to moderately elevate the unit; pull out only the back two to angle the unit towards you. Pull out the metal clips from the same area as the legs and move them until they snap into the legs.




The two larger, detached riser brackets elevate and angle the unit more than the foldout legs. Use moderate force to snap them into the bottom panel.



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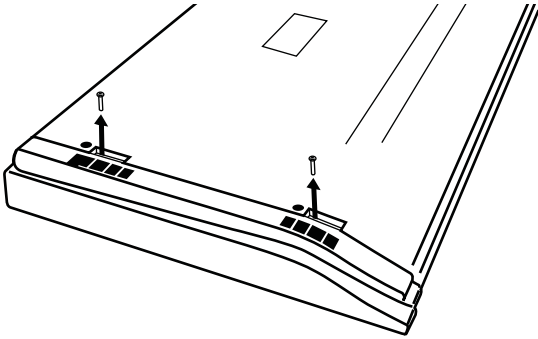
## Attaching an MC Mix to Additional Units

Up to four MC Mixes can be physically attached to each other to form a larger and more stable control surface. An MC Control and MC Transport can also be joined to MC Mix.

 *If you are using multiple units, see "Surfaces" on page 26 to use EuControl to link the units in the desired order.*

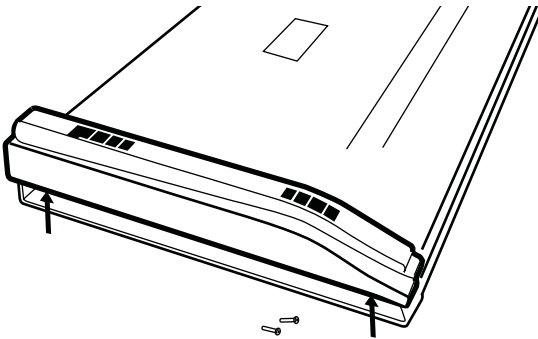
### To join two MC Mixes (or other Artist Series unit):

**1** On one of the MC Mixes, use a #2 Phillips screwdriver to remove the two silver screws. The screws may be tight, so you may have to use some force.



*Removing screws from the bottom panel*

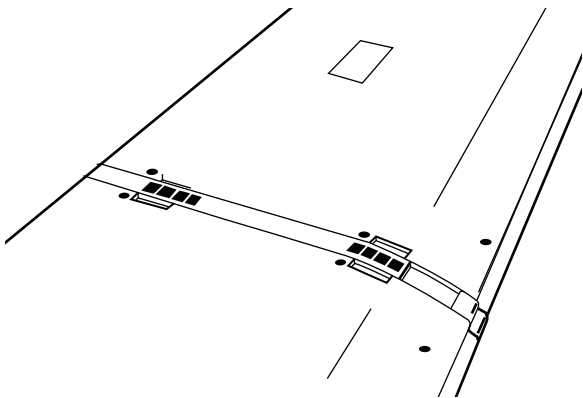
**2** Lift the black plastic connecting part and side panel up and out of the MC Mix.



*Removing connecting part and side panel*

**3** On the second MC Mix, remove the side panel on the end where it will attach to the first MC Mix.

**4** Slide the connecting part of the second MC Mix into the first MC Mix to attach them together.



*MC Mixes attached by connecting at side panel*

---

## Installing Software and Hardware

EuControl software must be installed before using any Artist Series media controller.

### To install EuControl software for Artist Series media controllers:

1 Do one of the following:

- Download the EuControl installer for your computer platform from [www.avid.com/artistsupport](http://www.avid.com/artistsupport). After downloading, make sure the installer is uncompressed (.dmg on Mac or .ZIP on Windows).

– or –

- Insert the Installer disc into your computer.

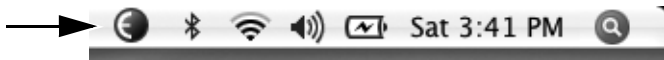
2 Double-click the EuControl installer application.

3 Follow the on-screen instructions to complete the installation.



*If prompted to download the most current version of EuControl, follow the onscreen instructions.*

4 When installation is complete, click Quit (Mac) or Finish (Windows). EuControl will launch automatically and is running when its icon appears as follows:

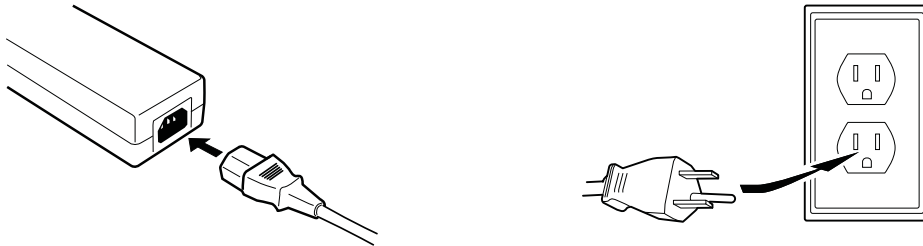


### EuControl icon in Menu bar (Mac)

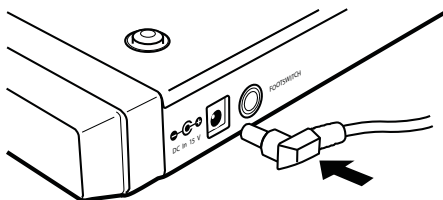
- On Mac, the icon is shown in your menu bar.
- On Windows, the icon appears in the System tray (or alongside other Hidden Icons in the lower tool bar if you do not have your system configured to always show icons in the System tray).

5 Shut down your computer.

6 Plug one end of the AC power cord into the power adapter and the other into a power outlet. Make sure the AC power cord is pushed all the way into the adapter.

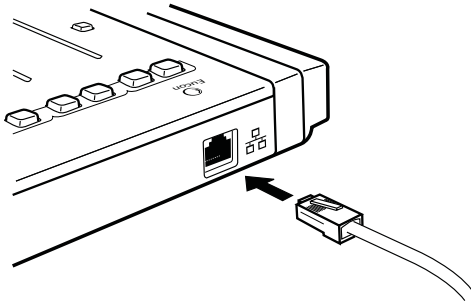


7 Connect the DC output cable from the power adapter to the DC In jack on the left side of the rear panel.



Connecting the DC power output cable to the DC In jack

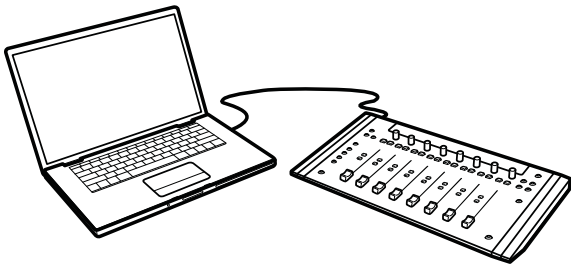
**8** Plug one end of the Ethernet crossover cable into the Ethernet jack on the back panel of the MC Mix.



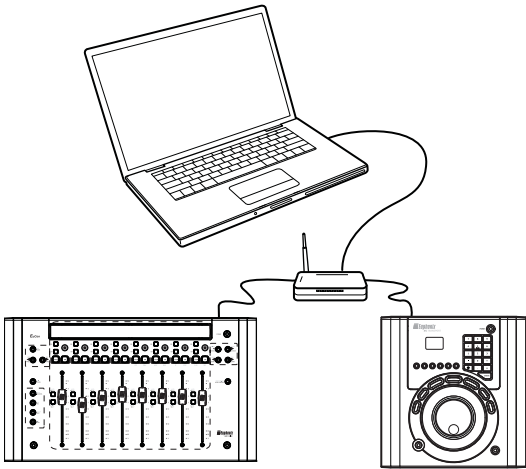
*Ethernet cable and rear panel jack*

**9** Plug the other end of the Ethernet crossover cable into an available Ethernet jack on your computer, router, or Ethernet switch.

- Note that connecting directly to the computer may require removing your Internet cable. If you have a Mac with two Ethernet ports, use Ethernet 1, rather than Ethernet 2.



- An Ethernet router or switch is required to connect additional MC Mix or other Artist Series unit such as an MC Transport, or to connect units to a local area network.



**10** Turn on your router (if applicable), then turn on your computer and wait until it finishes starting up.

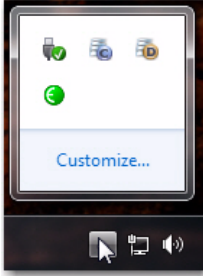
**11** Press and release the **POWER** switch on MC Mix. Do the following, as appropriate for your operating system:

**Mac** Wait up to 60 seconds. A green icon in the menu bar indicates correct installation.



**EUCON icon on Mac**

**Windows** Wait up to 60 seconds. A green icon appears in the System tray (or, in Hidden Icons if your system is not configured to show all icons in the System tray).



**EUCON icon on Windows**

**12** If you did not see the green icon, do the following:

- See “Surfaces” on page 26 and add MC Mix manually.
- Shut down MC Mix and your computer, then turn them on (computer first, then MC Mix).
- If your Mac is pre-2002 and you are using an Ethernet router or switch, you need to purchase a normal straight-through Ethernet cable (instead of the crossover Ethernet cable supplied) from a computer store.
- See [www.avid.com/artist/support](http://www.avid.com/artist/support) for the most current troubleshooting information.

**13** If you downloaded the latest software from the web, you may need to update the firmware on your Artist Series controllers. See “Update Firmware” on page 27 for instructions.

**14** Launch your application and open a session or project (such as Pro Tools, Logic Pro, Cubase, or Digital Performer).

**15** To set up your application to work with the MC Mix, see the *EuCon Application Setup Guide* that you downloaded at the beginning of this section.

## Controlling a Second Workstation

The MC Mix can control applications running on a second computer, referred to in this guide as a *workstation*. Most users will not need to do this because EuControl will only be needed on the same workstation as the their audio or video applications.

### To be able to control a second workstation:

**1** Do one of the following:

- Download the EuControl installer from [www.avid.com/artistsupport](http://www.avid.com/artistsupport) onto the second computer. After downloading, make sure the installer is uncompressed (.dmg on Mac or .ZIP on Windows).

– or –

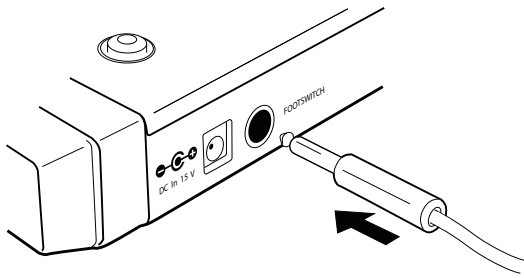
- Insert the Installer disc into the second computer.

**2** In the Extras folder, double-click the Install EuCon Workstation installer.

**3** Follow the instructions to install the EuCon software.

## Connecting a Footswitch

The MC Mix has a ¼-inch FOOTSWITCH input on the back panel. The footswitch can be used to punch in and out of recording. Plug the footswitch in before powering on the MC Mix. See “Footswitch” on page 30 for more information.



*FOOTSWITCH input on rear panel*

# Chapter 3: Common Tasks

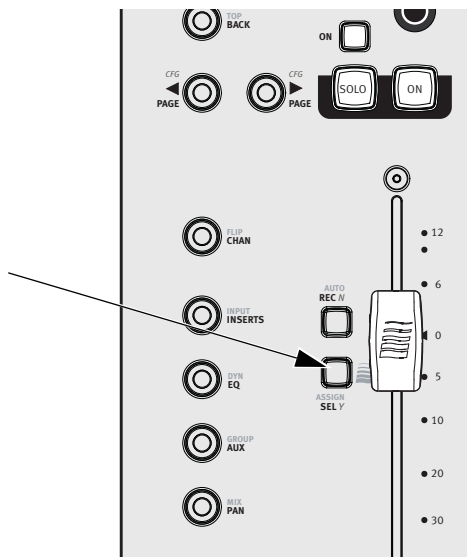
If you completed the installation steps in Chapter 2, “Setup and Installation”, you are ready to start learning more about MC Mix. The following examples demonstrate several common tasks.

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## Fader Strip

To select tracks, adjust volume and pan, and bank tracks to the faders:

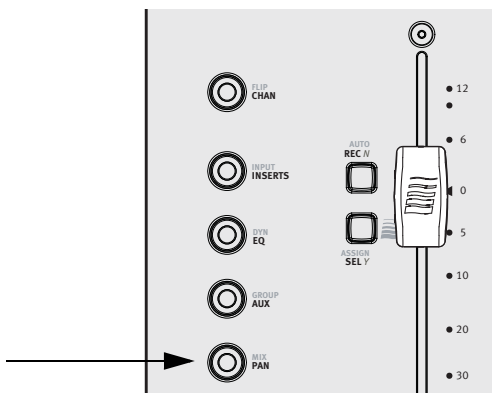
- 1 Press the MC Mix strip 1 fader **SEL** key. The corresponding track is selected in your application.



Strip 1 fader SEL key

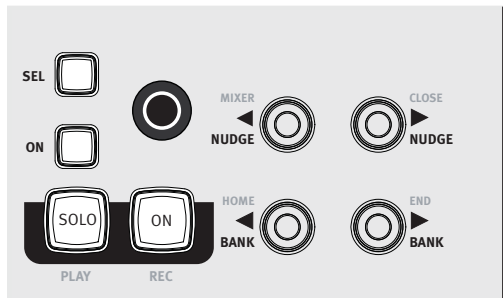
- 2 Move the MC Mix strip 1 fader up and down. You are now controlling the level of your application’s first track with MC Mix. The display at the top of strip 1 shows track information.

- 3 When the MC Mix is first powered up, the **PAN** key is lit by default. If it is not press the **PAN** key. Each strip’s Soft Knob now controls pan for its corresponding track.



PAN key

4 Press the **NUDGE >** key to move all eight tracks over one strip. If tracks 1–8 were assigned to strips 1–8, tracks 2–9 are now assigned to strips 1–8.

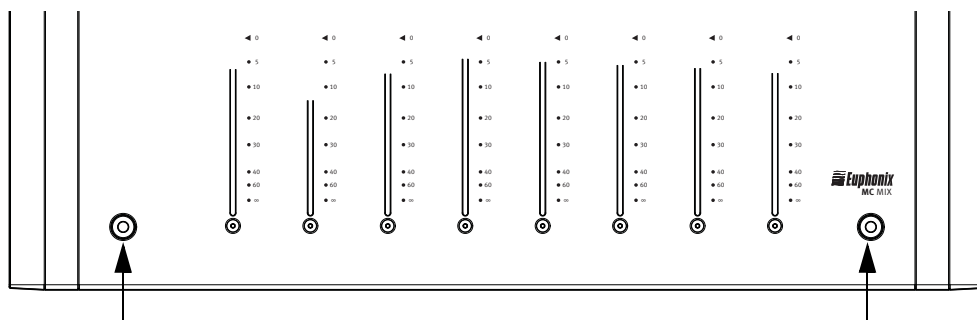


**NUDGE and BANK keys**

5 Press the **HOME** key to restore tracks 1–8 to strips 1–8.

The **SHIFT** key is used in conjunction with other keys to access secondary functions labeled in blue above the primary function. In this case, the **HOME** function is accessed by pressing **SHIFT + <BANK**.

Two **SHIFT** keys are located at bottom-left and -right of MC Mix.



**Shift keys**

6 Press the **BANK >** key to shift tracks over eight at a time. If tracks 1–8 were assigned to strips 1–8, tracks 9–16 are now assigned to strips 1–8.

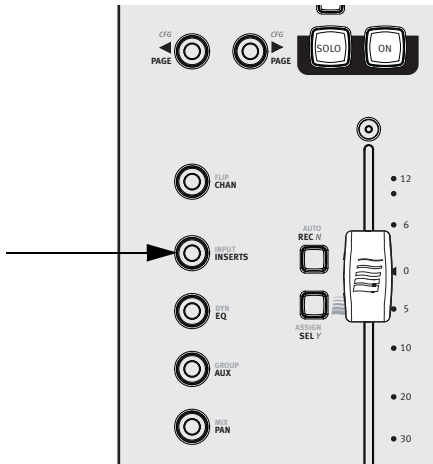
The **<NUDGE** and **<BANK** keys perform the same operations in the opposite direction.

## Inserts

**To access and edit plug-ins:**

- 1 Add a plug-in on track 1 of your application.
- 2 If tracks 1–8 are not assigned to strips 1–8, press the **HOME** key to restore tracks 1–8 to strips 1–8.
- 3 Press the MC Mix strip 1 fader **SEL** key.
- 4 Press the **CHAN** key to enter channel mode.
- 5 Press the **INSERTS** key.

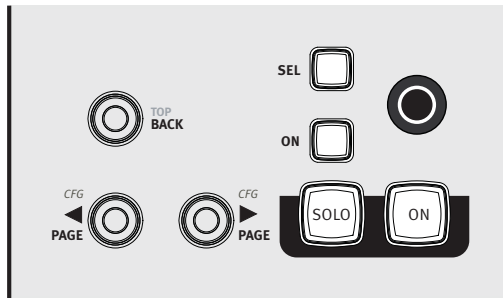




**INSERTS key**

The names of the plug-ins on that track spill across the display screens.

- 6** Press the Soft Knob below the desired plug-in name to select it. The parameters of that plug-in spill across the display screens.
- 7** Turn the Soft Knob below the desired parameter to adjust its value. The Soft Knobs can be turned like a conventional knob and pressed like a switch to access an additional function.
- 8** Press the **PAGE** keys to access more parameters.

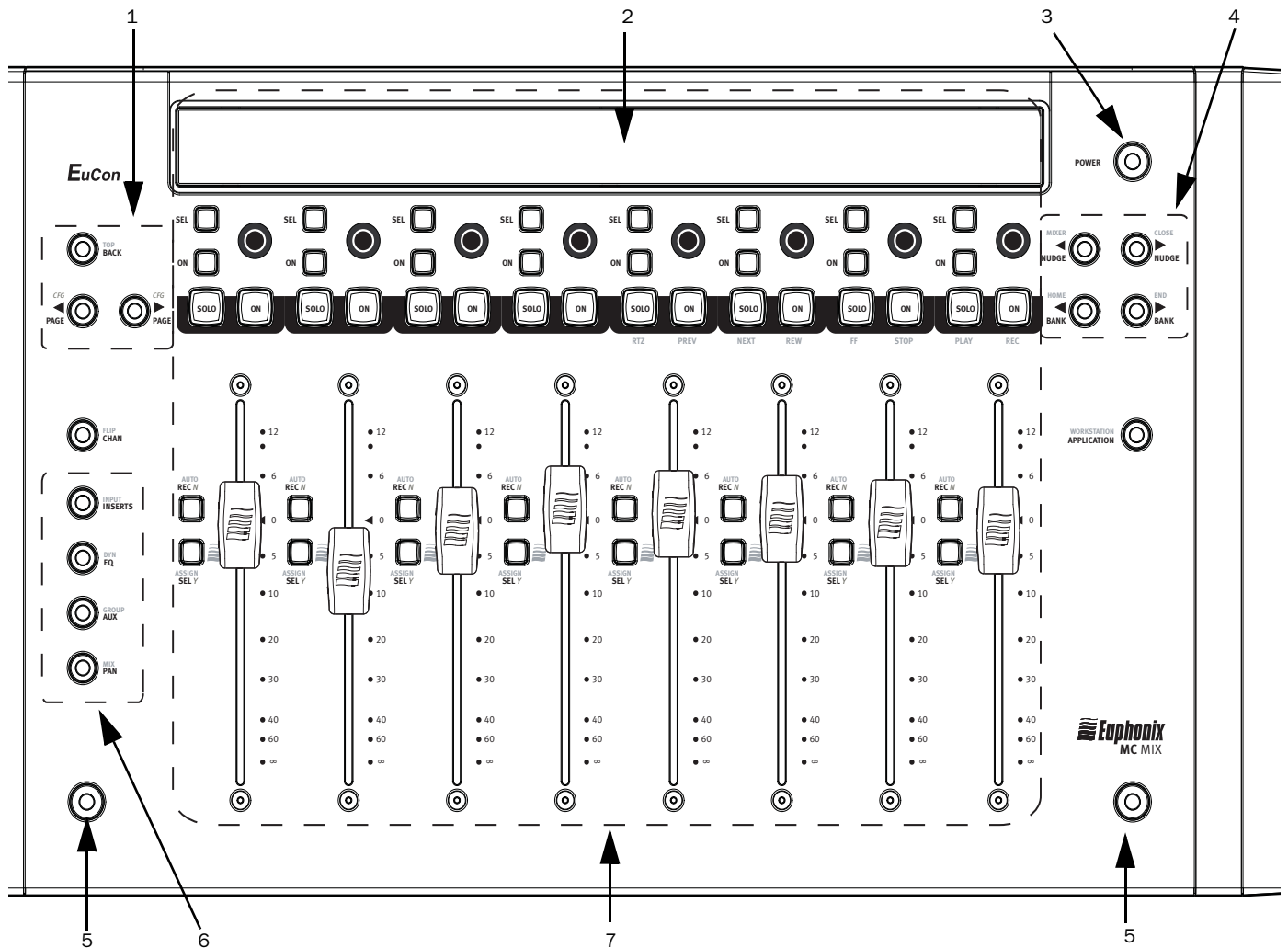


**BACK and PAGE keys**

- 9** Press the **BACK** key to exit that plug-in.
- 10** Press the **CHAN** key to exit channel mode.



# Chapter 4: Surface Controls



## MC Mix surface controls

- 1 Soft Key navigation
- 2 Display screens
- 3 Power
- 4 Fader Navigation
- 5 **SHIFT** key
- 6 Knob Set selectors
- 7 Fader strips

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## Power Switch

Press and release the **POWER** switch to turn the MC Mix on or off.

---

## SHIFT Key

The **SHIFT** key is used in conjunction with other keys to access secondary functions labeled in blue above the primary function. Two **SHIFT** keys are located at the lower-left and -right of MC Mix.

The **SHIFT** key can be locked on like caps lock on a computer keyboard by pressing both **SHIFT** keys simultaneously. This is useful if you plan to access several Shift functions consecutively. Press either **SHIFT** key to unlock.

---

## Fader Strips

MC Mix provides eight fader strips, each with a touch-sensitive fader and a touch-sensitive knob, that control tracks in audio and video application.

### Display Screens

At the top of each fader strip is a 128 x 64 pixel Organic Light Emitting Diode (OLED) display that shows the following:



#### Fader display indicators

**1 Meter** Shows clip, peak, and normal values. It can show mono, stereo, or surround sound tracks.

**2 Track Name** Shows the name of the track. When a fader is touched, it shows the value of the fader. After releasing the fader it reverts to showing the track name.

**3 Knob Name** Shows the name of the parameter currently on the knob. When a knob is touched, it shows the value of the parameter. After releasing the knob it reverts to showing the parameter name.

**4 Knob Position** Graphically shows the value of the knob.

**5 Auto Mode** Shows the track's automation mode (blank = neither read nor write, r = read, w = write, rw = read/write).

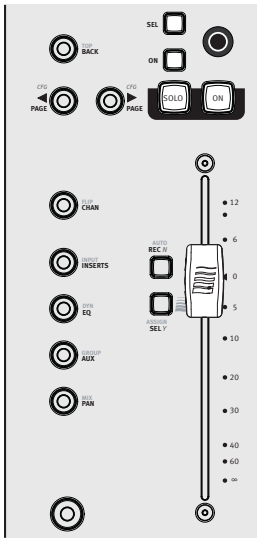
**6 Attention Indicator** Is a line under the track name that shows this strip contains the attentioned (or *focussed*) track (see "Channel Mode" on page 20).

#### OLED Dimming

To preserve OLED life, the channel displays dim when not in use. The time until dimming begins can be set in Preferences (see "MC Mix and MC Transport Display Screen Dim Time" on page 31).

## Fader

The fader controls the track assigned to this strip. It is motorized so it reflects changes made in the application, such as automation. It is also touch sensitive, which some applications use for automation.



### Fader strip

When the Select by Touch General preference is selected, touching a fader selects that track in the application and attentions it on that strip. This is the same as pressing the fader **SEL** key. Holding down the **SHIFT** key and touching a fader sets it to unity gain.

## ON

The track is on (unmuted) when the strip **On** key is lit and off (muted) it is not lit.

## SOLO

The SOLO key lights red when that track is soloed.

## Transport Controls

MC Mix provides Transport controls on strips 5–8, using the **SHIFT** layer for the track **SOLO** and **ON** switches:



### Transport Controls in fader strips 5–8

**RTZ (Return To Zero)** Press **RTZ** to move to the beginning of the session or project.

**PREV (Previous)** Press **PREV** to move to the previous marker. Not all applications support markers.

**NEXT** Press **NEXT** to move to the next marker. Not all applications support markers.

**REW (Rewind)** Press **REW** to rewind. This function varies with the application. Common functions include:

- Rewind until **STOP** or another key is pressed.
- Rewind a fixed amount.
- Rewind until the **REW** key is released.

**FF (Fast Forward)** Press **FF** to fast forward. This function varies with the application. Common functions include:

- Fast forward until **STOP** or another key is pressed.
- Fast forward a fixed amount.
- Fast forward until the **FF** key is released.


**STOP** Press **STOP** to stop all other functions.

**PLAY** Press **PLAY** to play the project from the current location.

**REC** Press **REC** begin recording at the current location. All tracks armed for recording are punched into record.

## SEL

Pressing a fader **SEL** key selects that track in the application and focusses it on MC Mix.

 *Some applications allow selecting multiple tracks if the Shift key on the QWERTY keyboard is held down while selecting tracks. In this case, the focussed (attended) track is the last one selected.*

## ASSIGN

Press the **ASSIGN** key to display the Assign tab in the EuControl Settings dialog (see “Assign” on page 31).

## REC

Press the **REC** key to enable recording on a track. The **REC** key lights red to indicate that track is enabled (armed) for recording. Press the **REC** key to cancel a track enabled for recording. Some applications blink the **REC** LED when armed but not recording and light solid when recording.

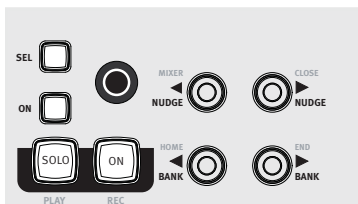
## AUTO

To change track automation mode, press the **AUTO** key until the desired automation mode appears in the channel display.

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## Fader Navigation Controls

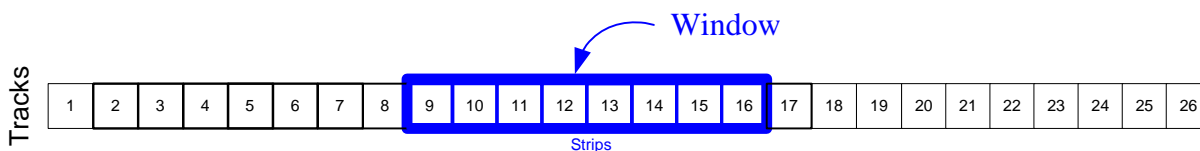
Scroll through tracks using the **BANK** and **NUDGE** keys. **HOME** and **END** are shortcuts to the first and last banks, respectively.



Fader navigation controls

## BANK and NUDGE

The **BANK** and **NUDGE** keys change which tracks are assigned to the strips. The eight strips can be thought of as a window that moves in the direction indicated by the arrow over the application’s tracks.



Strips window moves over application tracks

### **NUDGE <**

Moves the window one track to the left. If strips 1–8 are assigned to tracks 9–16, they are now assigned to tracks 8–15.

### **NUDGE >**

Moves the window one track to the right. If strips 1–8 are assigned to tracks 9–16, they are now assigned to tracks 10–17.

### **BANK <**

Moves the window one bank (eight tracks) to the left. If strips 1–8 were assigned to the bank starting at track 9, they are now assigned to the bank starting with track 1. Pressing **< BANK** again does nothing because the first bank is already shown.

### **BANK >**

Moves the window one bank (eight tracks) to the right. If strips 1–8 had the bank starting at track 9, they now have the bank starting with track 17.

## **MIXER and CLOSE**

Not all applications support these keys.

### **MIXER**

Opens and closes the application's mixer window.

### **CLOSE**

Closes any open window or dialog box on the application.

## **HOME and END**

### **HOME**

Moves to the first bank with tracks 1–8 assigned to strips 1–8.

### **END**

Moves to the last bank.

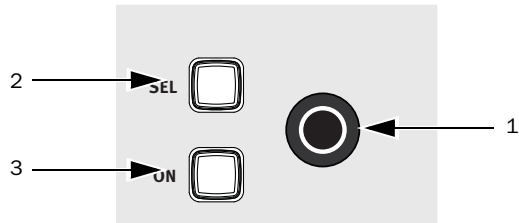
## **Navigating Among Multiple MC Mixes**

Multiple MC Mixes act as one big control surface with a bank size of eight tracks. For example, three linked MC Mixes can show 24 contiguous tracks. The **BANK** and **NUDGE** keys perform the identical actions on the combined set of tracks.

---

## Knobs

Each fader strip has one touch-sensitive knob along with two knob switches (**SEL** and **ON**), shown in the figure.



### Knob controls

1 Each fader strip has one touch-sensitive, continuously rotating knob that adjusts parameters such as pan and aux send levels. Each knob can also be pressed from the top. This is called the *Knob Top* key and is typically used to access sub-menus but also to turn parameters on and off.

2 The **SEL** key changes the knob function or toggles a secondary function's value, such as an aux send pre/post fader.

3 The **ON** key toggles two-state parameters, such as EQ Band 1 on/off.

## Basic Knob Use

When the MC Mix is first powered on, the knobs are in normal mode (see Knob Modes on page 34). Each knob controls the pan parameter for its track on the strip.

The knob selector keys can quickly access common parameters in normal mode:

- Press **AUX** to assign each track's first aux send to each knob. Press **PAGE>** to assign the next aux send to the knob. Pressing **<PAGE** returns to the previous aux send.
- Press **PAN** to assign the track's pan control to each knob.

It is also possible to edit plug-ins, EQ, dynamics, and other functions on the knobs.

## Knob Modes

The eight knobs can be in *normal* or *channel* modes.

### Normal Mode

Each knob controls the same parameter for every track on the strips.



Normal mode

### Channel Mode

Channel mode is useful for editing EQs and plug-ins that have many parameters. The eight knobs control up to eight different parameters on a single focussed track. Press a fader **SEL** key to focus that track. Channel mode is denoted in the display by a grid of small yellow dots around each parameter name and knob position indicator. The focussed track is further distinguished by these dots around its entire area including the track name.



Channel mode

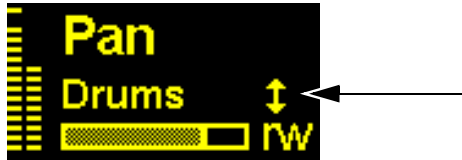


## CHAN Key

The **CHAN** key toggles between normal mode (**CHAN** key unlit) and channel mode (**CHAN** key lit). In normal mode, the focussed track name is underlined to show which track's parameters will be expanded in channel mode.

## FLIP Key

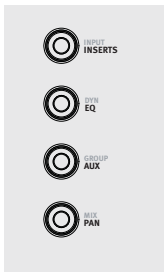
The **FLIP** key toggles what is currently assigned to the knobs (such as plug-in or send parameters) to the faders. A vertical double arrow appears in the OLED display when the faders and knobs are flipped. Press the **FLIP** key again to toggle the faders and knobs back to normal. Flip mode is a great way to be able to adjust plug-in parameters as an alternative to using the knobs.



Flip indicator in OLED display

## Knob Set Selector Keys

A knob set is an array of knobs used by EuControl-compatible applications to control plug-ins, EQs, dynamics, aux sends, and similar. One of the eight Knob Set Selector keys is always selected and lit and displays its knob set until another Knob Set Selector key is pressed. When the MC Mix first starts, the **PAN** knob set is selected by default.



Knob Selector keys

The Knob Set Selector keys enter the MC Mix menu system. Some of these knob sets can display another knob set called a sub-menu. For example, the Inserts knob set shows the names of every plug-in inserted on the track, one plug-in name per knob (in Channel mode). Pressing a plug-in's Knob Top key displays its parameters on the knobs for editing. This new knob set is a sub-menu of the Inserts knob set. Press the **BACK** key to return to the top of the Inserts knob set.

Sub-menus are not directly supported in normal mode. When a sub-menu is entered in normal mode, MC Mix automatically changes to channel mode and that track is focussed and selected. When the top of that knob set is displayed again, normal mode resumes. Since sub-menus can be more than one level deep, this can be accomplished by pressing the **TOP** key once or the **BACK** key repeatedly. However, you can simply press another Knob Selector key to navigate directly to another knob set.

## INSERTS

Pressing the **INSERTS** key displays the inserts knob set for editing plug-ins. In normal mode, the first plug-in is displayed on the knob. Pressing one of these Knob Tops in normal mode toggles MC Mix into channel mode and displays the first eight plug-in parameters for editing. Pressing a plug-in's Knob Top displays its parameters for editing.

## EQ

Press the **EQ** key to display the EQ knob set to configure equalization controls and filters. This automatically toggles MC Mix into channel mode and shows four EQ bands on eight knobs.

## AUX

Press the **AUX** key to display the Aux knob set to control auxiliary sends. In normal mode, the first aux send is displayed. In normal mode, press the **PAGE >** key to advance to the second aux send. In channel mode, up to eight aux sends can be shown at once.

## PAN

Press the **PAN** key to display the Pan knob set to configure stereo or surround panning. In normal mode, the stereo pan control is typically displayed. In channel mode, the first page of eight pan knobs is shown.

## INPUT

Press the **INPUT** key to display the Input knob set to configure input routing, mic gains, phantom power, and other application-specific parameters.

## DYN

Press the **DYN** key to display the Dynamics knob set to configure compressors, limiters, expanders, and gates.

## GROUP

Press the **GROUP** key (**SHIFT+AUX/GROUP**) to display the Group knob set to configure group bus routing or control group (VCA) membership.

## MIX

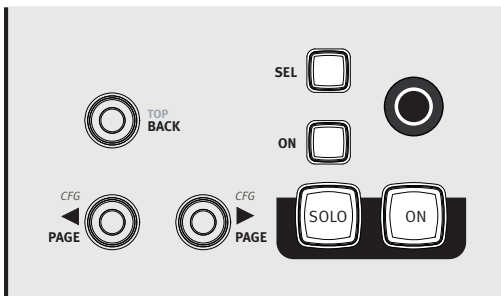
Press the **MIX** key to display the Mix knob set to configure output routing.

## Dual-Function Knobs

Some knobs have two functions that are toggled by pressing the knob **SEL** key (such as EQ Frequency and Q). The knob name changes in the display to show the current function. Dual-function knobs are supported in normal mode.

## Knob Set Navigation Keys

Since a knob set may have more parameters than knobs, use the two **< PAGE >** keys scroll among them.



*Knob Set navigation keys*

### <PAGE

Press the **<PAGE** key to scroll to the previous page. When on the first page, pressing **<PAGE** key does nothing. The **<PAGE** key lights yellow when there is a previous page to go to.


### PAGE>

Press the **PAGE>** key to scroll to the next page. When on the last page, pressing the **PAGE>** key does nothing. The **PAGE>** key lights yellow when there is a next page to go to.

## Configuration Pages (CFG)

Many knob sets have a configuration page to set up that knob set. The configuration page for the Inserts knob set, for example, is used to assign plug-ins to a track. The configuration page for the Aux knob set assigns aux sends to a track. Some applications can configure presets for plug-ins and EQs.

Press the **< PAGE >** keys simultaneously to display a knob set's configuration page, if it has one. When on the configuration page, both the **< PAGE >** keys light.

 *Configuration pages work only in Channel mode.*

## BACK

Press the **BACK** key once to return to the previous knob set. Press the **BACK** key repeatedly to back out of all sub-menus and display the top of the current knob set.

## TOP

Press the **TOP** key to immediately back out of all sub-menus and display the top of the current knob set. This is equivalent to pressing the **BACK** key repeatedly.

## Knob Sets and Multiple MC Mixes

Up to four MC Mixes can be linked to form one large surface. See “Surfaces” on page 26 to learn how to order the linked surfaces.

Press the **CHAN** key on any MC Mix to toggle all surfaces between normal and channel mode.

In channel mode, a knob set is displayed across all linked surfaces. For example, with two linked surfaces, a knob set is displayed on 16 knobs instead of eight. If the knob set has more knobs than the linked surfaces can display, navigate among them with the **PAGE** keys.

Press a Knob Set Selector key on any MC Mix to select that knob set on all MC Mixes.

---

## APPLICATION

Press the **APPLICATION** key to toggle between the two most recently used open applications. Hold down the **APPLICATION** key and press **BANK >** to toggle between all open applications in a circle. Hold down the **APPLICATION** key and press **<BANK** to cycle through applications in the opposite direction.

---

## WORKSTATION

MC Mix can control applications running on a second computer, referred to in this guide as a workstation. Press the **WORKSTATION** key (**SHIFT + Application/Workstation**) to attach the MC Mix to another workstation. You must first use EuControl to create a list of workstations that this key switches between (see “Workstations” on page 27).

While attached to a second workstation, your computer keyboard and mouse can be configured to control that workstation and not your primary computer (see “Redirect Keyboard and Mouse Control to Attached External Workstation” on page 28).



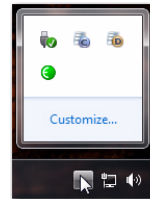
# Chapter 5: EuControl

EuControl is launched automatically upon starting your computer and runs in the background. EuControl is responsible for finding, linking, and communicating with all Artist media controllers on the network.

## Accessing EuControl Settings


To open the EuControl Settings window:

- Do one of the following:
  - On Mac, click the green icon on the taskbar and select EuControl Settings.
  - On Windows, click the green icon in the Task or System tray (Windows) and select EuControl Settings. Unused icons will be shown in the Hidden icons view.



Selecting EuControl Settings on Mac (left) and Windows (right)

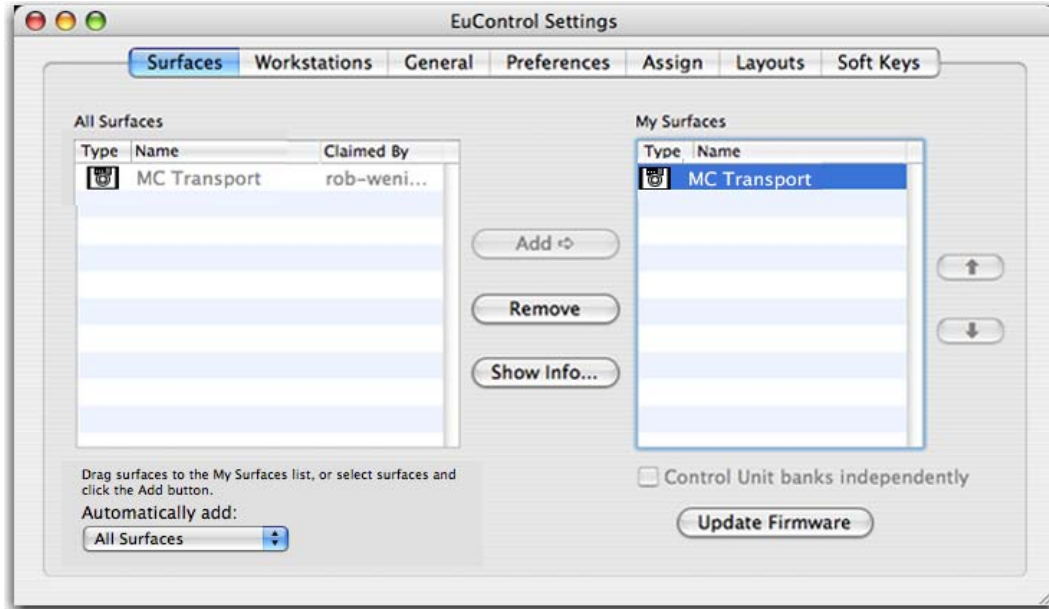
Only one instance (installation, or copy) of EuControl can run on a workstation. However, multiple workstations on a single network can each run EuControl. Each EuControl-equipped workstation can connect one MC Transport, one MC Control, and up to four MC Mixes on the network. These multiple devices act together as a single control surface. Once connected, Artist Series media controllers are not available to EuControl on other systems until relinquished.

 *Some EuControl features pertain only to MC Mix and MC Control, not MC Transport. These are called out at the beginning of each of the following sections.*

---

## Surfaces

The Surfaces tab shows all Artist media controllers on your network and those connected to your instance of EuControl.



*Surfaces tab*

### Control Unit Banks Independently

This option is only available when an MC Control is selected in the My Surfaces list. Multiple MC Mix units always bank as a single unit.

### All Surfaces

All Surfaces shows all Artist media controllers on the network. A device shown in light gray is already connected either to your own or another instance of EuControl running on a different workstation. In both cases, it is not selectable. Y

### My Surfaces

My Surfaces shows the Artist media controllers connected to your instance of EuControl. There can be one MC Control, one MC Transport, and up to four MC Mixes in the My Surfaces list, linked together as a single large surface.

The top-to-bottom order corresponds to the left-to-right order of the surfaces, respectively. The left-most surface is assigned to fader strip 1. Use the + and – buttons to reorder the list.

Each Artist media controller can be renamed by double-clicking the existing name and typing a new name.

### Add

Click Add to add the selected All Surfaces entry to My Surfaces. This connects the selected Artist media controller to your instance of EuControl. You can also click and drag an Artist media controller from All Surfaces to My Surfaces.

Add is disabled if all Artist media controllers in All Surfaces are connected to any instance of EuControl.

### Remove

Click Remove to remove the selected surface from My Surfaces and make it available to other instances of EuControl.

Remove is disabled if no surface is selected.

## Automatically Add

The Automatically Add menu has two settings that control what happens to stored Surfaces between shutdown and startup.

**All Surfaces (Default)** This setting is best used when you are the only person running EuControl in your home or studio. It provides an easy plug-and-play experience by automatically adding your All Surfaces list to your My Surfaces list so you never have to manually edit the My Surfaces list.

**My Surfaces Only** This setting is useful in facilities where other EuControl users are on your network. When EuControl starts, only the surfaces from your My Surfaces list are added. Because a surface can only be claimed by one user at a time, this avoids claiming another user's surfaces.

## Update Firmware

Each time a new version of EuControl is installed, it checks each MC Transport, MC Control, and MC Mix in your system to determine if any firmware updates are required. The firmware is embedded in EuControl so an Internet connection is not required.

Select each Artist media controller in the My Surfaces list (Shift-click to select multiple devices). Click Update Firmware to update their firmware. If a dialog displays a message that the firmware is up to date, no further action is necessary.

Follow the instructions in the EuControl dialog box.

- The Artist Series controllers must be plugged into a working power source.
- Do not power off any Artist Series controllers during the update or attempt to interrupt the update.
- The status for each Artist Series controller being updated is displayed on that device as well as in the EuControl dialog box.

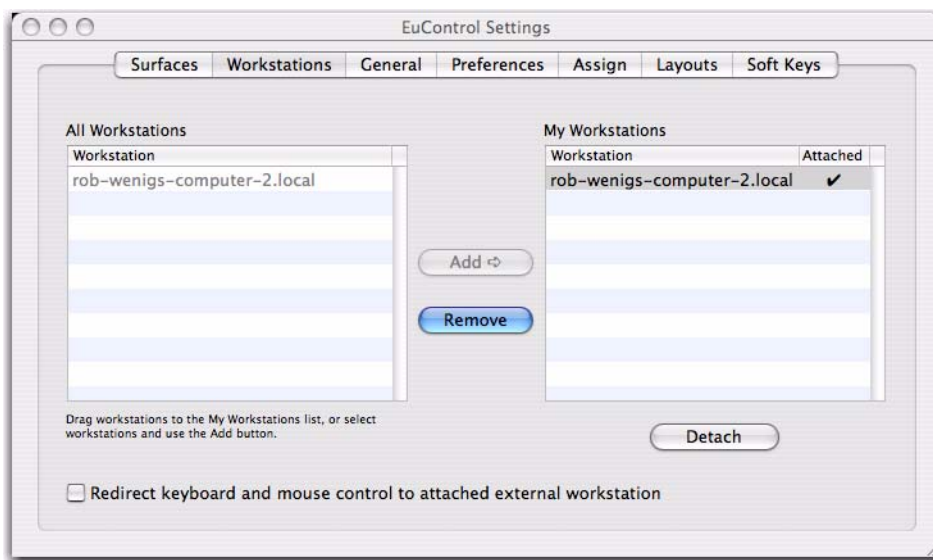
## Show Info

Select an Artist Series controller and click Show Info to display the name of the unit, and hardware and software information.

---

## Workstations

An Artist Series controller can control applications running on a second computer, referred to in this guide as a workstation. The Workstations tab establishes the list of workstations that the **WORKSTATION** key cycles through. Any workstation running EuControl software can be in this list, including those controlled by the System 5-MC, MC Pro, and MC Control.



*Workstations tab*

## All Workstations

All Workstations lists all EUCON-enabled workstations on the network. If the workstation is already in the My Workstations list, it is shown in gray and cannot be selected.

## My Workstations

My Workstations lists the workstations that can be attached to by pressing the **WORKSTATION** key.

It is possible to put a workstation in the My Workstations list that is already attached to another instance of EuControl running on another computer. It cannot be attached here until it is unattached from the other instance of EuControl. This was done to allow multiple users to share workstations without having to frequently edit their My Workstation list.

## Add

Click Add to add the selected workstation from the All Workstations list to the My Workstations list. If the workstation is already in the My Workstations list, it is grayed out and cannot be selected.

## Remove

Click Remove to remove the selected workstation from the My Workstations list.

## Attach/Detach

Select a workstation in the My Workstations list and click Attach. A check mark appears in the Attach column next to that workstation. This workstation is now communicating with the Artist media controller(s) connected to your instance of EuControl.

If the selected workstation is already attached, the button displays Detach. Click it to detach the workstation.

## Redirect Keyboard and Mouse Control to Attached External Workstation

Your computer keyboard and mouse can control a second external workstation, if desired. Select this option before adding a workstation to the My Workstations list to redirect keyboard and mouse control to the attached workstation. Note that the keyboard and mouse will no longer control your primary workstation. If this option is not selected (default setting), your keyboard and mouse control your primary computer.

You can manually toggle control back and forth between your primary workstation and the attached external workstation by pressing Control+Option+\ (Mac) or Control+Alt+\ (Windows).

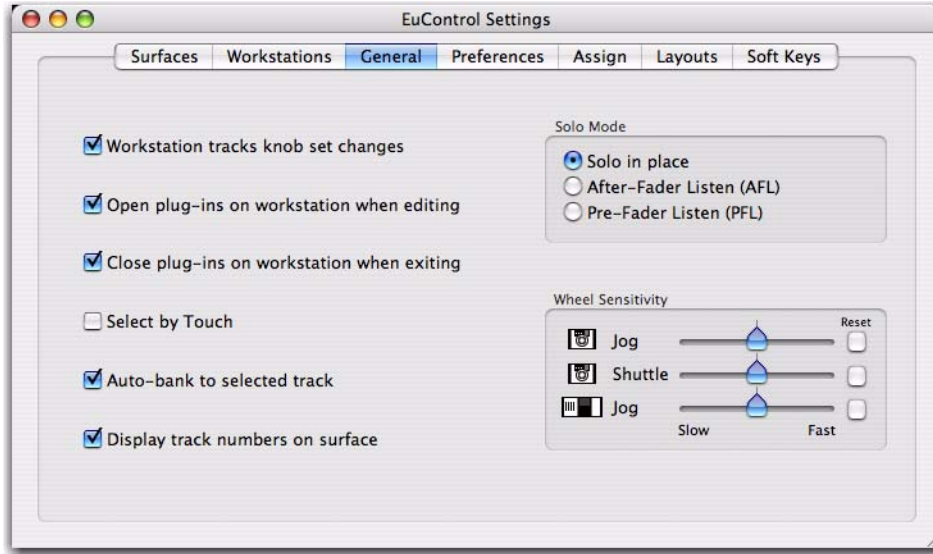
The Redirect Keyboard and Mouse Control to Attached External Workstation option must be checked *before* adding the workstation to the My Workstations list. If it is toggled ON after adding the workstation it will have no affect. Only workstations added with the option checked will respond.



---

## General

The General tab controls how the Artist media controller and application software work together.



*General tab*

### Workstation Tracks Knob Set Changes

Lets supported workstations follow selection of knob sets on the Artist Series unit.

### Open Plug-ins on Workstation When Editing

Lets supported workstations open plug-in windows on-screen when a plug-in is selected for editing on an Artist Series unit.

### Close Plug-ins on Workstation When Exiting

Lets supported workstations close plug-in windows on-screen when you press **BACK** or exit Inserts mode on an Artist Series unit.

### Select by Touch

Lets supported workstations attention (focus) tracks on-screen when their fader is touched on Artist Series units.

### Auto-bank to Selected Track

Lets Artist Series units bank to tracks when the tracks are selected on-screen.

### Display Track Numbers on Surface

Lets Artist Series units show track numbers as assigned by the current workstation (if supported).

### Solo Mode

Lets you configure Artist Series units for the following Solo modes as (if) available in the current workstation:

- Solo-in-Place
- After-Fader Listen (AFL)
- Pre-Fader Listen (PFL)

See the documentation for your specific workstation for details on Solo modes.

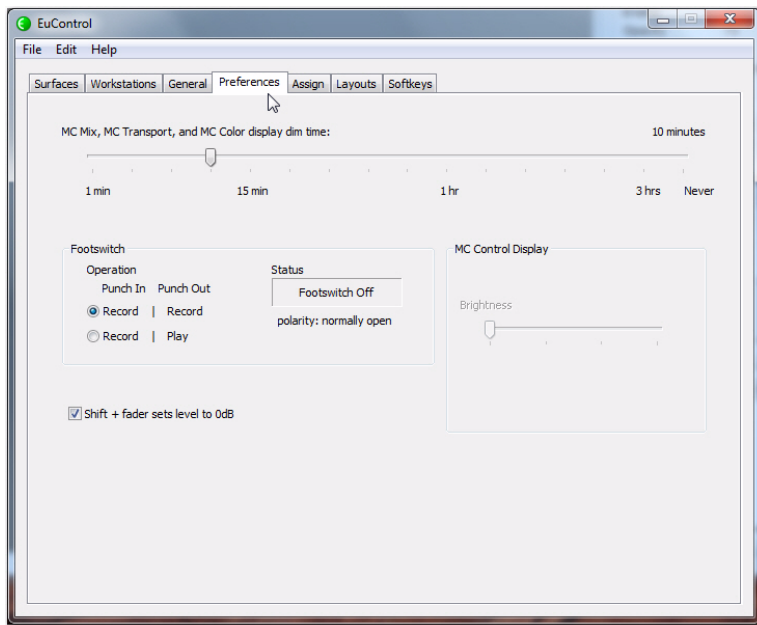
## Wheel Sensitivity Sliders

The sensitivity of the Jog Wheel and Shuttle Ring can be precisely adjusted using the Wheel Sensitivity sliders. The top two sliders pertain to MC Transport, the bottom is the Jog Wheel for MC Control.

The center position is the default for each control. Click and drag a slider to move it right for faster response or left for a slower, more controlled movement. Click the Reset button to restore the center position.

---

## Preferences



Preferences tab

## Footswitch

MC Mix lets you connect a footswitch for hands-free punch in/out. Connect a footswitch to the 1/4-inch FOOTSWITCH input on the back panel.

### To configure the Footswitch in EuControl:

- In the Footswitch section of the Preferences tab, click to select the desired Punch In and Punch Out assignments:

**Record | Record** When the application is rolling, pressing the footswitch once punches into recording on record enabled tracks. Pressing the footswitch again takes the track(s) out of record but does not stop the transport.

**Record | Play** Pressing the footswitch once punches into recording on record enabled tracks. Pressing the footswitch again stops the record pass (your DAW may or may not automatically take the track out of record on stop; see the documentation for your application).

**Status** Shows whether the footswitch state is currently on or off.

## Shift + Fader Sets Level to 0dB

When enabled, holding **SHIFT** and touching a fader sets the fader to 0dB. **SHIFT**-lock does not apply (**SHIFT** must be pressed).

## MC Control Display

This feature only applies to MC Control. See the *MC Control User Guide*.

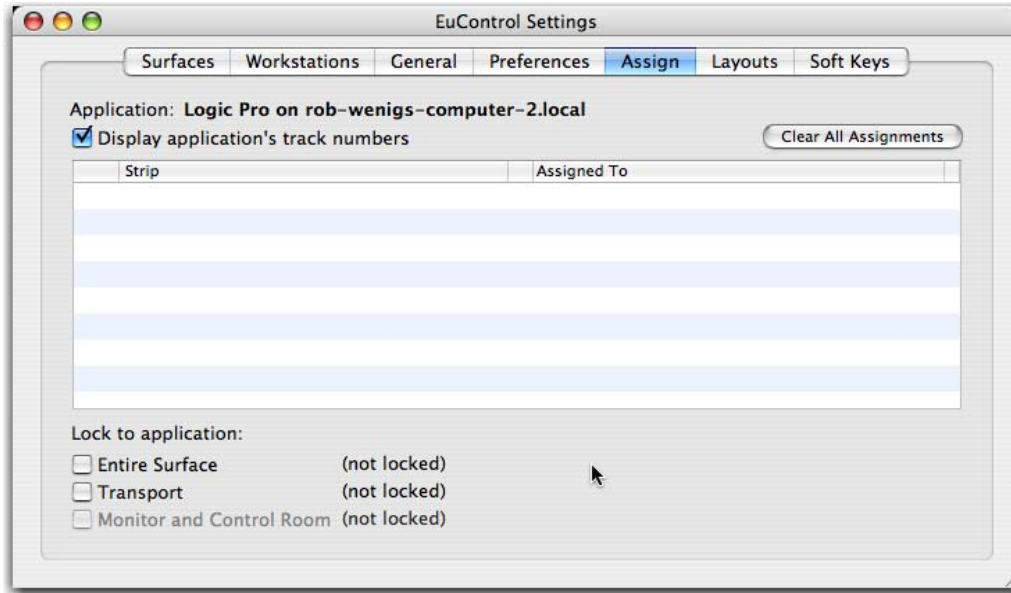
## MC Mix and MC Transport Display Screen Dim Time

Drag the slider to set the amount of inactive time before the display screens of any MC Mix(es) and MC Transport in your system dims to half intensity.

---

## Assign

The Assign tab manages how tracks are assigned to strips on the MC Mix and MC Control. By default, tracks are automatically assigned in banks of four.



Assign tab

### Display Application's Track Numbers

Enabling this option lets EuControl display track numbers as assigned by the currently selected (in focus) application (if that application supports track numbers).

### Clear All Assignments

Clears all currently displayed assignments.

### Lock to Application

This feature lets the transport controls or the entire surface to stay locked to the application listed at the top-left of the dialog even when that application is not top-most.

**Entire Surface** Select this checkbox to lock the entire surface, including those of all linked Artist media controllers, to the listed application.

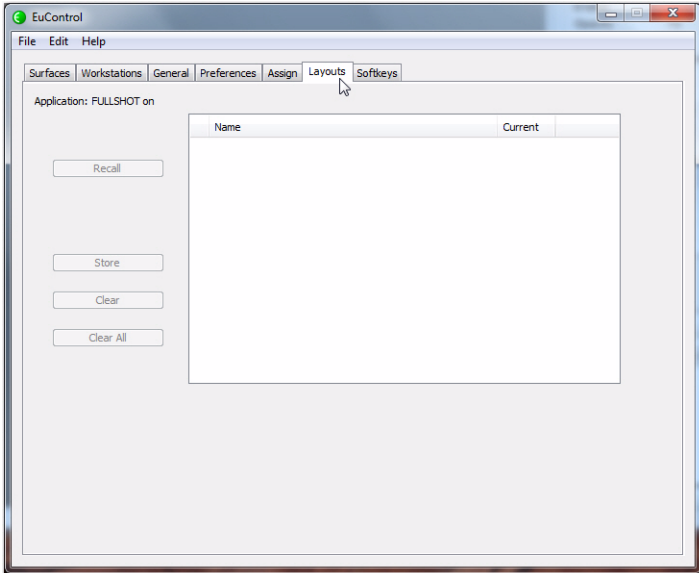
**Transport** Select this checkbox to lock the transport controls (MC Mix and MC Control) to the listed application.

**Monitor and Control Room** See the *MC Control User Guide*.


---

## Layouts

The Layouts tab pertains to MC Mix and MC Control only. Use the Layouts tab to store and recall assignments. For example, you can use the Assign tab to “lock” (or “bank safe”) important tracks to specific faders, so they ignore banking. You can save that assignments as part of a Layout, so that you can easily switch between your “bank safed” layout and default banking, or other assignments.



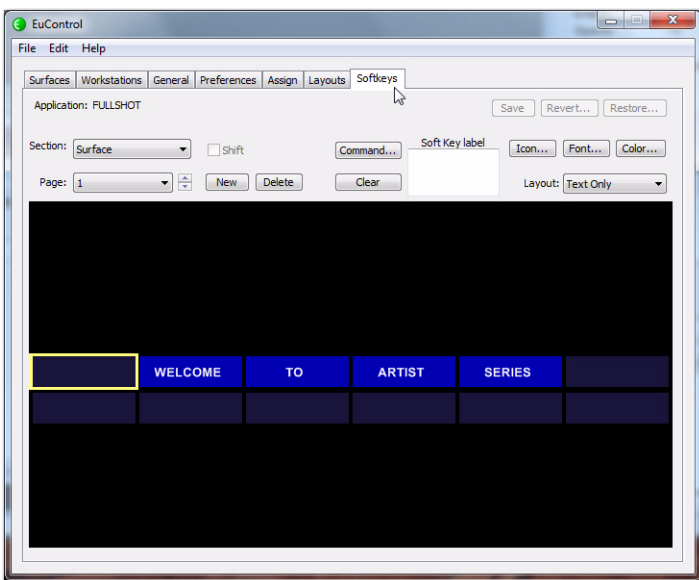
Layouts tab

 *Layouts are created and temporarily stored in EuControl as long as the current session or project is open. To be able to recall your layouts, be sure to save your session or project in your workstation application.*

---

## Soft Keys

The Soft Keys tab provides Soft Key options for MC Transport, MC Control, and MC Color, only.



Soft Keys tab

# Chapter 6: Setting IP Addresses

Most MC Mix users will never have to set a static Internet Protocol (IP) address but in the rare cases that require it, MC Mix does allow for it.

Normally MC Mix uses Dynamic Host Configuration Protocol (DHCP) to obtain its IP address, typically from a router. MC Mix reverts to link-local addressing to generate an IP address if a DHCP server is not found on the network, such as when an MC Mix is connected directly to a computer with an Ethernet cable. Both of these methods of obtaining IP addresses can be overridden by supplying a static IP address, which MC Mix uses in all cases when powered on.

**⚠** *Attempt this only if you have prior experience configuring a network.*

## To set a static IP address:

- 1 While holding down the left-most two Soft Keys simultaneously, press and release the **POWER** switch. Continue to hold the Soft Keys down until the display lights.
- 2 Press the left-most **ON** and **SEL** buttons simultaneously (or press the left-most PAN knob).



*Use DHCP yes (left); Use DHCP no (right)*

- 3 Press the **<PAGE>** keys simultaneously to move the cursor to the next screen, in this case the first field of the IP Address screen. Press the **<Page or PAGE>** keys to cycle the cursor back to a previous field or screen to change a parameter to a different value. To change the value for the Subnet Mask or IP Address, place the cursor under the current value and press the left-most **SEL** and **ON** keys (or press the left-most PAN knob).
- 4 Press **<Page or PAGE>** to scroll through the fields of the IP Address.
- 5 Press the left-most **SEL** and **ON** keys (or press the left-most **PAN** knob) to set the second field of the IP address.



*IP Address displays*

- 6 To change the value for the Subnet Mask or IP Address, place the cursor under the current value and press the left-most **SEL** and **ON** keys (or press the left-most PAN knob).
- 7 Repeat the previous steps to set the remaining IP Address fields.

8 After setting the last IP Address field, press the <PAGE> keys to move the cursor to the first field of the Subnet Mask screen.



*Subnet Mask display*

9 Use the techniques described to set the Subnet Mask.

10 Press the two left-most Soft Keys simultaneously to save this static IP address. Power MC Mix off and on to use the new IP address. To cancel any changes made to the IP address at any time, power off the MC Mix before pressing the two left-most Soft Keys simultaneously.

# Appendix A: Compliance Information

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## Environmental Compliance

### Disposal of Waste Equipment by Users in the European Union



This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

### Proposition 65 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.*

### Perchlorate Notice

This product may contain a lithium coin battery. The State of California requires the following disclosure statement: "Perchlorate Material – special handling may apply, See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)."

### Recycling Notice



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## EMC (Electromagnetic Compliance)

This model MC Mix complies with the following standards regulating interference and EMC:

- FCC Part 15 Class B
- EN 55022 Class B
- EN 55024 Class B
- AS/NZS CISPR 22 Class B
- CISPR 22 Class B

## FCC Compliance for United States

### Communication Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any modifications to the unit, unless expressly approved by Avid, could void the user's authority to operate the equipment.

## Australian Compliance



## Canadian Compliance

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## CE Compliance

### (EMC and Safety)



Avid is authorized to apply the CE (Conformité Européenne) mark on this compliant equipment thereby declaring conformity to EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.

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## Safety Compliance

This equipment has been tested to comply with USA and Canadian safety certifications in accordance with the specifications of UL Standards: UL60950-1:2007, 2nd Edition and Canadian CAN/CSA C22.2 60950-1-07, 2nd Edition. Avid Inc. has been authorized to apply the appropriate UL and 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 equipment 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 equipment (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 power cords from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) For products that are not rack-mountable: Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid injury from tip-over.
- 13) Unplug this equipment during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the equipment 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 equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) For products that are a Mains powered device:  
The equipment shall not be exposed to dripping or splashing and no objects filled with liquids (such as vases) shall be placed on the equipment.  
**Warning!** To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- 16) For products containing a lithium battery:  
**CAUTION!** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- 17) For products with a power switch:  
The main power switch is located on the top panel of MC Mix. It should remain accessible after installation.
- 18) The equipment shall be used at a maximum ambient temperature of 40° C.





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