



Avid S1 Guide

Installation and Overview



Legal Notices

© 2025 Avid Technology, Inc., ("Avid"), all rights reserved. This guide may not be duplicated in whole or in part without the written consent of Avid.

For a current and complete list of Avid trademarks visit: <https://www.avid.com/legal/trademarks-and-other-notices>

Bonjour, the Bonjour logo, and the Bonjour symbol are trademarks of Apple Computer, Inc.

Thunderbolt and the Thunderbolt logo are trademarks of Intel Corporation in the U.S. and/or other countries.

This product may be protected by one or more U.S. and non-U.S. patents. Details are available at <https://www.avid.com/legal/patent-marking>.

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

06/25

Safety Compliance

Safety Statement: (Model #: 9100-65814)

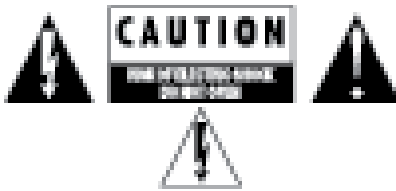
This equipment has been tested to comply with USA, Canadian, EU and International safety certification standards: UL 60950-1 2nd edition, CAN/CSA C22.2 No. 60950-1-07; 2nd edition, EN 60950-1:2006 /A11, /A1, /A12, /A2, IEC 60950-1:2005/A1, /A2, UL 62368-1, Second Edition, CAN/CSA 62368-1-14, EN 62368-1:2014 /A11 and IEC 62368-1:2014 (Second Edition)

Avid Technology Inc., has been authorized to apply the appropriate NRTL mark on its compliant equipment.

Power Safety Input Rating

Avid S1: 12Vdc, 2.8A

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. Only use attachments / accessories specified by the manufacturer.
10. Only perform the services explicitly described in the install and or user manual. For services or procedures not outlined in the install or user manual, speak with authorized service personnel.
11. 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.
12. For products that are a Mains powered device.

The power inlet is the main disconnect device and should remain accessible. Disconnect the power cord before servicing the unit.

Protect power cords from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.

Unplug this equipment during lightning storms or when unused for long periods of time.



To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

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.

This unit may be provided with a power supply cord set suitable for 120V AC input only (for U.S.A. and Canada). For other than U.S.A. and Canada, a qualified person must provide for use with this unit, an appropriate, approved power supply cord set which is in compliance with the end use country requirements and has a minimum cross-sectional area of 1.0mm².

13. For products containing a lithium battery:



Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

14. For products with a power switch:

It should remain accessible after installation.

15. The equipment shall be used at a maximum ambient temperature of 40° C and maximum altitude of 2000m.

16. For products with an operator-accessible fuse:



For continued protection against risk of fire, replace only with same type and rating of fuse.

ATTENTION: Pour ne pas compromettre la protection contre les risques d'incendie, remplacer par un fusible de même type et de même caractéristiques nominales.

17. 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.

18. Rack-Mount Safety Instructions:

- a. Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment might be greater than room ambient. Therefore, consider installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
- b. Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. Stage 48 airflow is from the front of the chassis enclosure to the rear. Make allowances for cooling air to be available to the front panel surface and no restrictions at the rear.
- c. Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- d. Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- e. Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (for example, use of power strips).

Contents

Contents	5
1 Introduction	8
EuControl Software	8
What's Included	9
Additional Recommended Items	9
System Requirements and Compatibility	9
S1	9
Activation	9
About This Guide	9
Conventions Used in This Guide	10
Hardware Switches on S1 Control Surfaces	10
Accessing Secondary Functions Using Surface SHIFT	11
Resources	11
Account Activation and Product Registration	11
Support and Downloads	11
Products and Developers	11
Video Tutorials	12
User Guides	12
2 Installation and Setup	13
Unpacking S1	13
Connecting S1	14
Joining Multiple S1s	15
Installing EuControl Software	17
AutoLaunch Settings	18
Create Your Surface in EuControl Settings	18
First Time Startup	19
Open EuControl Settings	19
Using the Surfaces Tab to Add and Manage Controllers	20
Control App Master, Hybrid, Meters, and Remote Modes	22

Designating Tablet Mode in My Surfaces	22
Hybrid Mode and S1 Sync Preference	25
Avid Control Desktop	26
Updating Firmware	26
Installing a Tablet for Avid Control	27
Connecting a Footswitch	28
Enabling EUCON in Pro Tools	28
EUCON in the Toolbar	28
EUCON in Setup > Peripherals	29
Confirming EUCON	30
Powering-On Your System After Initial Setup	30
Connecting a Second Workstation	31
Troubleshooting EuControl Connections	33
Tablets or Surfaces Disconnecting from EuControl	33
Multiple Network Adapters	34
“EUCON Network Not Found” Dialog	34
Unlit EuControl Icon	34
Optimizing Wifi	34
Appset	34
Removing EuControl Software	35
How to Proceed	35
3 S1 Surface Controls Overview	36
Surface SHIFT	36
Channel Strips	37
Channel Strip Display	37
Assignable Channel Encoder	37
Solo	37
Mute	37
Fader	38
Channel Sel and Rec Switches	38
Channel Strip Displays	39

Assignable Channel Encoders	40
Channel Encoder Modes	40
Basic Channel Encoder Use	41
Channel Encoder Assignment Switches	42
Channel Encoder Navigation Switches	44
Fader Banking Controls	45
Bank and Nudge	45
Home and End	46
Mixer and Close	46
Track Color Switches (Modifiers and User 1–4)	46
Modifier and User Switches	47
User Switches	47
A Setting IP Addresses	48
B Specifications	50
Avid S1 Mechanical Specifications	50
Avid S1 Environmental Specifications	50
Dimensions	51
Test Mode	52
C Compliance Information	53
Environmental Compliance	53
Disposal of Waste Equipment by Users in the European Union	53
Perchlorate Notice	53
Recycling Notice	53
EMC (Electromagnetic Compliance)	54
FCC Compliance for United States	54
Australian Compliance	54
Canada ICES-003 Compliance	54
Korea Class B EMC Compliance	54
Japan VCCI B Compliance	55
CE Compliance	55

1 Introduction

Welcome to the Avid® S1 studio controller from Avid. The S1 uses Avid's high-speed EUCON™ (Extended User Control) protocol to enable fully integrated control of Pro Tools® and other EUCON-compatible audio and video applications via an Ethernet connection. Up to four S1s can be used simultaneously.

Installation

This guide shows how to install S1 hardware and EuControl software, and gives an overview of the S1 control surface.

Learning

After installing the app on your tablet(s) and EuControl on your audio workstation, see the *Using EuControl Surfaces* guide for instructions on how to use the app and other Avid media controllers to record, edit, and mix in Pro Tools. Thanks to the EUCON protocol, most steps for Pro Tools are also applicable in other EUCON-aware applications from our development partners, including Logic Pro X, Cubase, Nuendo, Pyramix, and more (see the *EUCON Application Setup* guide to learn how to set up EuControl communication with these applications).



EuControl Software

-  EuControl lets your workstation computer find, link, and communicate with the S1 via the EUCON protocol.

EuControl also lets you set preferences for and customize the controls on your S1. EuControl software must be installed on the workstation computer before you can use the S1 with your application. You can also control applications on a secondary workstation computer by installing the separate EUCON Workstation software.

What's Included

- S1 control surface
- Power adapter with IEC cable (multiple cables are included for different regions)
- S1 Link plate
- Cat5e (350 MHz) Ethernet cable
- Welcome pack, which includes the EuControl software Activation Card, S1 Welcome card, Health and Safety Guide

Additional Recommended Items

Although it can be used standalone, you will get the most out of the S1 by using it with one or more supported iOS or Android tablets (not included) running the Avid Control app.

A standard Ethernet router or switch (for control surface functionality only) is highly recommended.

System Requirements and Compatibility

Avid can only assure compatibility and provide support for hardware and software it has tested and approved. For compatibility information and other resources, visit [EUCON Compatibility](#).

For S1, visit <https://www.avid.com/s1reqs>.

S1

Up to four S1s can be used simultaneously with one Dock.



S1 can be used with Artist Transport and Artist Color, but cannot be used with S3 or legacy Artist Mix or Artist Control.

Activation

If you have not already, use the included Activation card to activate your purchase, in order to download the latest EuControl software and additional documentation.

About This Guide

This guide shows how to install S1 and EuControl software, and provides an overview of the S1 control surface.

For workflow examples that show how to use S1 with Pro Tools and other EUCON-compatible applications, see the *Using EuControl Surfaces.pdf*.



For applications that only support MackieControl, see the EUCON Application Setup Guide.pdf.

Accessing Secondary Functions Using Surface SHIFT

The **Surface SHIFT** switch on the S1 is used in conjunction with other switches to access a secondary layer of functions. The secondary functions of some switches are highlighted in gray above the primary function (such as **Bank/Home**, where **Home** is the secondary function). Other switches have secondary functions that are not labeled on the surface. Read this guide to learn how to access all secondary functions.

The following terminology is used to describe **Surface SHIFT** functions:

Example:

- “Press and hold the **Surface SHIFT** switch then press the **Bank/Home** switch”

is written as:

- “Press **Surface SHIFT + Bank/Home**”

Momentary or Latching SHIFT

By default, the **Surface SHIFT** switch operates in momentary behavior (active only while pressed and held down). You can change this to operate in Latching behavior (pressing toggles the state on or off) in the Preferences tab of **EuControl Settings**.



Surface SHIFT is available as a Soft Key, letting you assign it to any available switch. For more information, see [Using EuControl Surfaces.pdf](#), available for download from this article on our Knowledge Base: [EuControl Product Guides](#).

Resources

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

Account Activation and Product Registration

Activate your product to access downloads in your [Avid account](#) (or quickly create an account if you don't have one). Register your purchase online, download software, updates, documentation, and other resources.

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 Avid user community on Facebook (Avid Official EUCON Control Surface Users) or the Pro Mixing – Avid Pro Audio Community.

[Avid Control Support](#)

[Dock Support](#)

[S1 Support](#)

[S3 Support](#)

For Artist Mix and other Artist Series media controllers, visit [EUCON Compatibility](#).

Products and Developers

Learn about [Avid products](#); download demo software or learn about our Development Partners and their plug-ins, applications, and hardware.

Video Tutorials

Watch the latest video tutorials for the Control app, Dock, S3, and other EuControl products on YouTube:

[Avid S1 Overview](#)

[Avid Control App](#)

[S3 + Dock Integrated Workflows](#)

For earlier EuControl hardware and software videos, watch the videos [Get Started Fast with Pro Tools | S3 and Dock](#).

You can find more videos, including the latest workflow tutorials, on the Avid website. Go to www.avid.com, view **Products** and select **Pro Mixing**. Follow the links for your controller and check the Learn and Support listings for video resources.

User Guides

To install your controller as well as EuControl software, follow the instructions in the most recent editions of the following guides:

Guide	Description
Avid Control Guide	Installation instructions, overview of controls and features
Avid Dock Guide	Installation instructions, overview of controls and features, and hardware specifications
Avid S1 Guide	Installation instructions, overview of controls and features, and hardware specifications
Avid S3 Guide	Installation instructions, overview of controls and features, AVB audio capabilities, and hardware specifications
EUCON Application Setup Guide	Setup and configuration instructions for applications from EUCON Development Partners
Using EuControl Surfaces	Comprehensive operations guide for all controllers that explains track and session basics, recording, plug-ins and sends, mixing, and more including explanations of all EuControl Settings and examples of how to use and customize Soft Keys

You can download all EuControl documentation from this article on our Knowledge Base: [EuControl Product Guides](#).

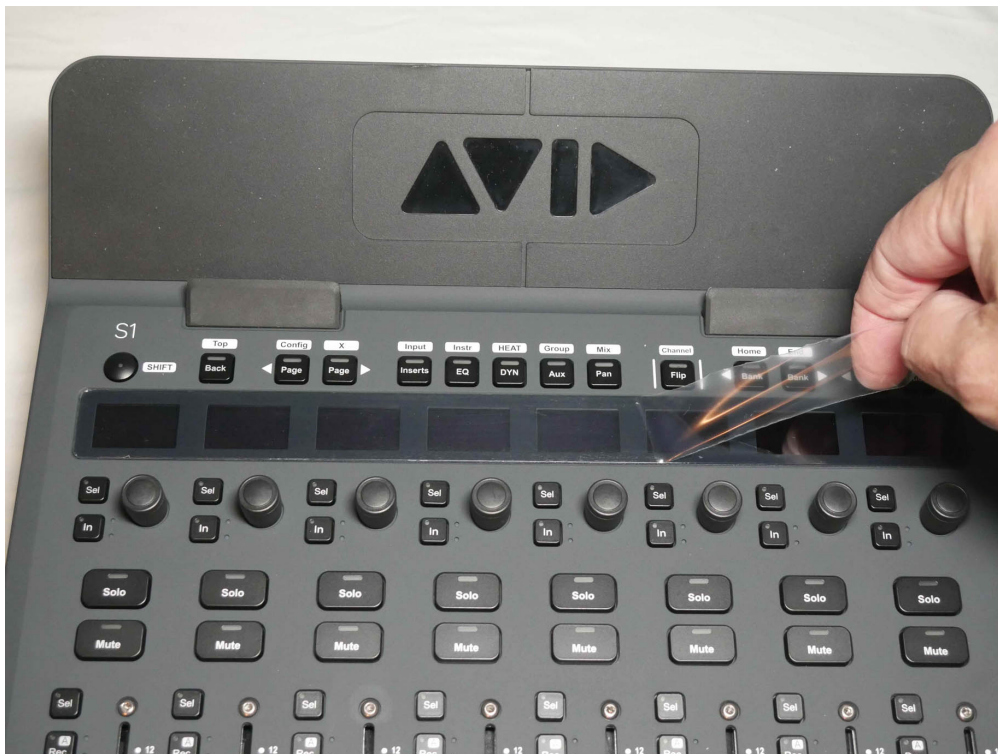
2 Installation and Setup

This chapter shows how to get your S1 set up as a studio controller, and consists of the following steps:

- "Unpacking S1" below
- "Connecting S1" on the next page
- "Installing EuControl Software" on page 17
- "Enabling EUCON in Pro Tools " on page 28
- "Confirming EUCON" on page 30

Unpacking S1

1. Open the S1 box and find the white Welcome/Start Here envelope. You will use the included Activation card to activate your S1 and download EuControl software later in the installation procedure.
2. Remove the cardboard tray holding your S1 accessories (Ethernet cable, Link plate (for joining two S1s together), power adapter, and power cables) and do the following:
 - Identify the IEC power cable appropriate for your location.
 - Set the IEC cable, Ethernet cable, power adapter, and Link plate aside.
3. Carefully remove the S1 from its packaging by doing the following:
 - Remove the protective tape across the fader strips (this tape holds the faders in place during transportation, but must be removed).
 - Remove the protective film from the displays across the top of the fader strips.



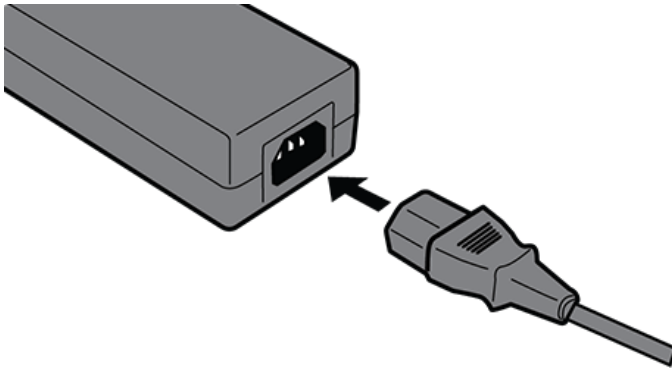
Removing protective film from the displays

Connecting S1

First connect power, then connect your S1 to your workstation computer (the computer running Pro Tools or other DAW).

To connect your S1 to your workstation computer:

1. Plug one end of the AC power cord appropriate for your location 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.



Connecting an AC cable to the power adapter

2. Connect the DC output cable from the power adapter to the DC In jack on the back panel. Make sure the connector seats fully into the DC In jack. You might need to rotate the connector to align it with the catches inside the jack and then rotate the cable connector to lock it in place (some DC output cables were twist-lock; newer units do not have twist-lock jacks).



DC In jack

3. Connect one end of an Ethernet cable into the Ethernet port on the back panel of the S1.



Ethernet port

4. Connect the other end of the Ethernet cable to an available Ethernet port on your computer, or to the computer's Thunderbolt port using an Ethernet-to-Thunderbolt adapter.

 *An Ethernet-to-USB adapter may also be used.*

 **S1 cannot connect to your workstation computer using a wireless connection. A hard-wired network connection is required.**

If you want to connect the S1 to a local area network, or to connect additional S1 units and/or an Avid Dock, connect the Ethernet cable to an Ethernet router or switch, and make sure the router or switch is powered on before powering on the S1.

5. If you are connecting to a Mac with two Ethernet ports, we recommend you use Ethernet 1 rather than Ethernet 2. However, if you want to use Ethernet 2, do the following on your computer:
 - On the workstation computer, go to **System Preferences > EUCON**.
 - Click the **Network Interface** pop-up menu and choose **Ethernet 2**.
6. Press the power switch on the back of the S1 to the “on” position. The LEDs blink during initialization.



Power switch

Joining Multiple S1s

The S1 chassis includes small magnets along each side to hold multiple units together. Place two S1s next to each other and the built-in magnets will hold them together.

 **Do not place magnetic media such as audio tapes directly on S1. While the built-in S1 magnets are not strong enough to affect other studio equipment they can affect audio tapes or other media if left directly on top of or against the sides of the S1.**

If a more rigid solution is required:

1. Clip the included S1 Link plate to the underside of one unit (both ends of the Link plate are also magnetic), being sure to orient it correctly as shown below.

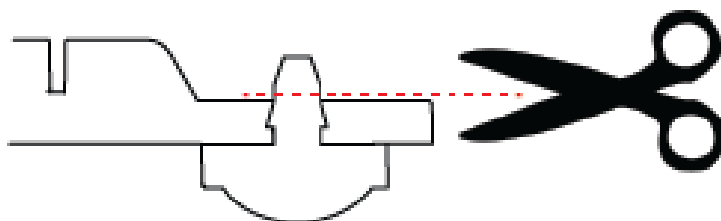
 **Do not attempt to lift or move the S1s when linked as this can cause damage to the link and/or the S1 units.**



Attaching a Link plate

2. Then set the other S1 onto the Link plate.

If your configuration includes an Avid Dock you can link it to an S1 using the same S1 Link plate. Simply snip off the top of the rubber foot on the side of the Link plate you want to attach to the Dock as shown below.



Snip or cut foot at red line to link S1 to a Dock

3. Proceed to ["Installing EuControl Software" on the next page.](#)

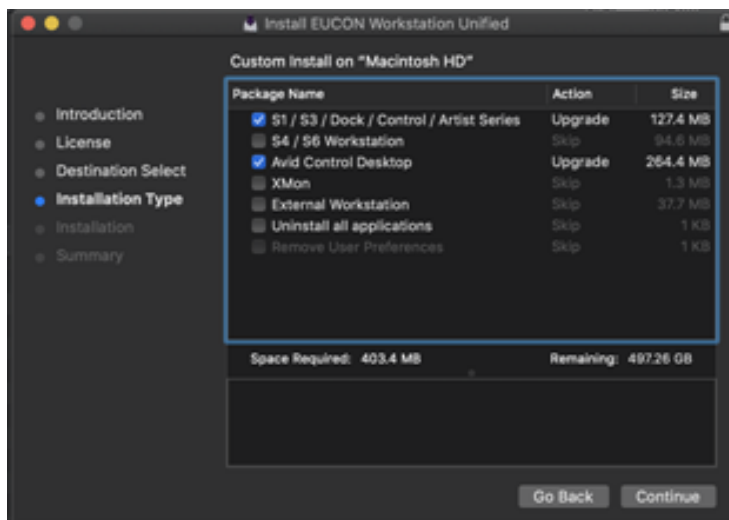
Installing EuControl Software

Next, install EuControl software on the computer running your media applications, such as Pro Tools. The computer running media applications is referred to in this guide as a *workstation*. An Internet connection is required to download EuControl.

To install EuControl software:

1. Once you have registered the Control app on your workstation, open a web browser and visit www.avid.com/account.
2. Log into your Avid account and download the **EUCON_WorkstationUnifiedInstall** for your workstation's operating system (macOS or Windows).
If you do not see EuControl software in your account go to [Register and Download Your Product \(avid.com\)](http://www.avid.com) and click on **EuControl**.
3. When download is complete, locate the **EUCON_WorkstationUnifiedInstall** and do one of the following:
 - ▶ macOS: Double-click the installer to mount it to your macOS desktop.
 - ▶ Windows: Extract the .zip file into a new folder.
4. Launch the installer and follow the on-screen prompts until the Installer list is displayed.
For a description of each option, select it (macOS) or hover the mouse over it (Windows only).
5. Select each option you want to install:
 - To only install EuControl to be able to use the Control app, Dock, S1, or S3, select **S1 / S3 / Dock / Control / Artist Series**.
 - To also install **Avid Control Desktop**, select it.
 - If you want to use the S4 or S6 and the Control app simultaneously, select both **S3/Dock/Control/Artist Series** and **S4/S6 Workstation**.

Other combinations can be installed (such as **S4/S6 Workstation** and **External Workstation** software), but cannot be run simultaneously.



Installing EuControl and Avid Control Desktop onto a primary workstation (macOS shown)

6. Click **Continue** (macOS) or **Next** (Windows), then click **Install**.
When reminded to restart, click **Continue Installation** (macOS) or **Yes** (Windows).
7. When installation is complete click **Restart**.

 (macOS Only) Follow the on-screen instructions if prompted to add EuControl to the Security Accessibility list in System Settings.

AutoLaunch Settings

When your computer restarts, the EuControl software launches automatically (by default) and an icon appears in the macOS Menu bar, or Windows System tray.

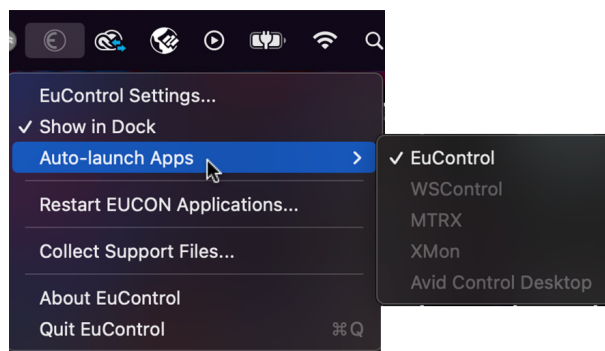


The icon appears unlit until you connect at least one device in EuControl software (explained later).

You can enable or disable auto-launch for EuControl software elements using the AutoLaunch selector.

To configure AutoLaunch on Mac:

1. Make sure EuControl is installed, and then do the following:
 - ▶ macOS: Click on the EuControl icon in the menu bar.
 - ▶ Windows: Right-click on the EuControl or WSControl icon in the System Tray at the bottom of the screen.



EuControl Auto-launch Apps selector (macOS shown)

2. From the **Auto-launch Apps** sub-menu, choose any of the following (you can enable more than one):
 - ▶ EuControl (for S1, S3, Dock, Avid Control (including Desktop), and Artist Series)
 - ▶ WSControl (for S4 and S6)
 - ▶ MTRX (DADMan for Pro Tools | MTRX and MTRX Studio)
 - ▶ XMON
 - ▶ Avid Control Desktop

Create Your Surface in EuControl Settings

EuControl is responsible for finding, linking, and communicating with all Avid media controllers on the network. You can use the different tabs in the EuControl Settings window to manage surfaces, pair surfaces with tablets, connect to workstations, and more.

 EuControl can be configured to launch automatically upon starting your compute. See "AutoLaunch Settings" above).

First Time Startup

The first time your computer starts up after installing EuControl, the software guides you through the initial configuration steps.

Multiple Network Adapters

When launched, EUCON displays a warning message if any possible network conflicts are detected. This type of conflict can occur if both adapters are connected to the same router or switch. For the best, most reliable connectivity and performance, have EUCON on its own, separate network. It is worth noting, however, that a separate network is not always required to provide acceptable performance in many simpler configurations with fewer EuControl devices, fewer network devices (including EuControl surfaces, network switches, and routers), and/or less overall network traffic (including Internet).

Multiple network adapters should be on different Subnets. For example, two separate ports on a Mac cannot have the same 192.168.1.x 255.255.255.0 addressing. The other port should be in the 192.168.2.x 255.255.255.0 range, or similarly unique. To resolve this condition, disable one of the adapters.



In most cases Wi-Fi can share addressing with EUCON.

Check Firmware

A dialog appears reminding you to check and update firmware on hardware units. Click **OK** to proceed.

Create Surface

Next, the **Create Surface** dialog is shown that describes how to configure your surface arrangement in EuControl Settings. Click **OK** to proceed to the **Surfaces** tab in EuControl Settings.

macOS Privacy Settings

macOS prompts you to add applications such as EuControl, EUCON Client Monitoring (MCClient), and Pro Tools to the Privacy list in System Preferences. When prompted, follow the on-screen instructions to add the applications to the list. If you do not, EuControl will not be able to communicate keyboard shortcuts within Soft Keys.

If you experience unexpected behavior with Soft Keys that include keyboard shortcuts after adding EUCON software to the Privacy list, try the following:

1. Open **System Preferences** (or **System Settings** in Ventura) and go to the **Security & Privacy**.
2. Go to the **Privacy** tab, then select Accessibility in the list to the left.
3. Remove all EUCON software from the Accessibility list to the right.
4. Add all EUCON software back to the Accessibility Privacy list.

Open EuControl Settings

You can access EuControl Settings at any time.

To open the EuControl Settings window:

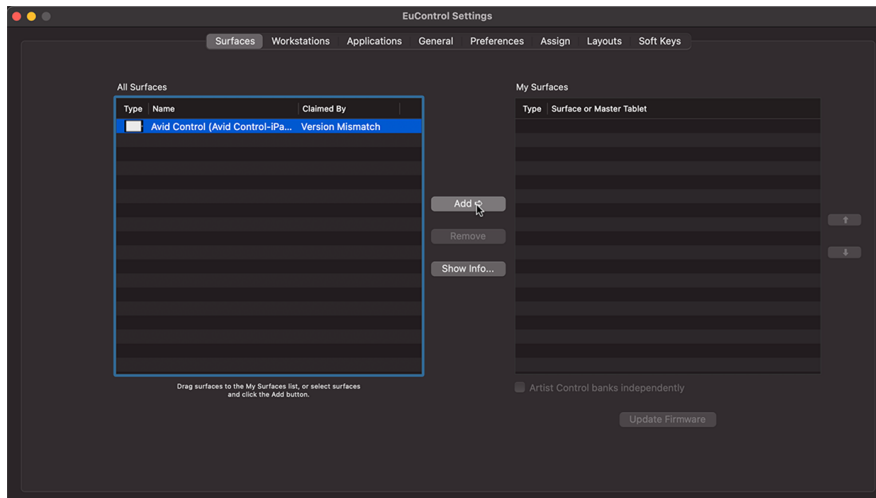
1. Do following:
 - ▶ On macOS, click the EuControl icon on the taskbar and select EuControl Settings.
 - ▶ On Windows, double-click the EuControl icon in the system tray and select EuControl Settings. If you don't see the EuControl icon, it could be automatically hidden by Windows. Click on the small white arrow to show hidden icons, then double-click the EuControl icon.
2. Proceed to ["Create Your Surface in EuControl Settings" on the previous page.](#)

Using the Surfaces Tab to Add and Manage Controllers

After installing EuControl for the first time, or whenever there is no existing surface configuration, use the Surfaces tab to add and arrange a Dock, S1, S3, Artist Series controller, and Avid Control apps (including Avid Control Desktop).

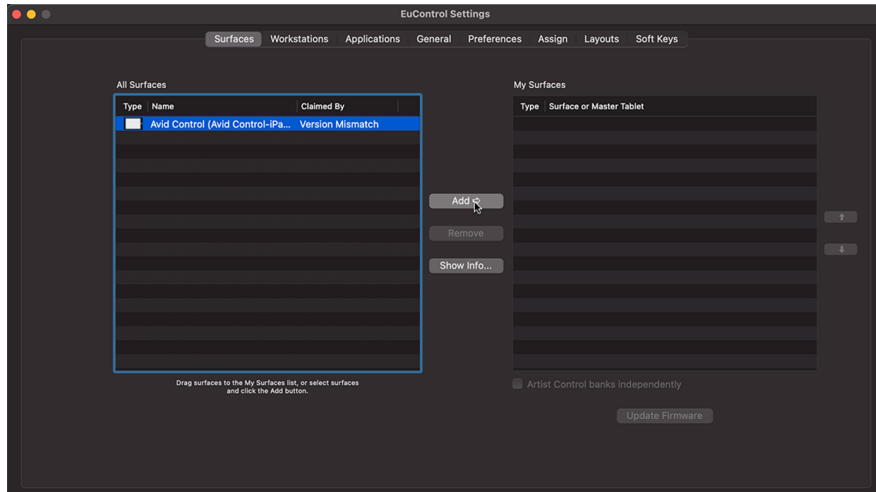
To connect a single controller to EuControl:

1. Select the controller in the All Surfaces list and click Add. Or drag the controller from All Surfaces and drop into My Surfaces.



Surfaces tab showing an Avid Control selected in All Surfaces to be added to My Surfaces

The controller appears in the Surface or Master Tablet column in My Surfaces.



Surfaces tab showing Avid Control in My Surfaces

If prompted to update firmware, follow the on-screen instructions.

2. Repeat to add additional controllers, if any as described in the following examples and sections. If you have no other controllers to add, proceed to ["Enabling EUCON in Pro Tools " on page 28.](#)

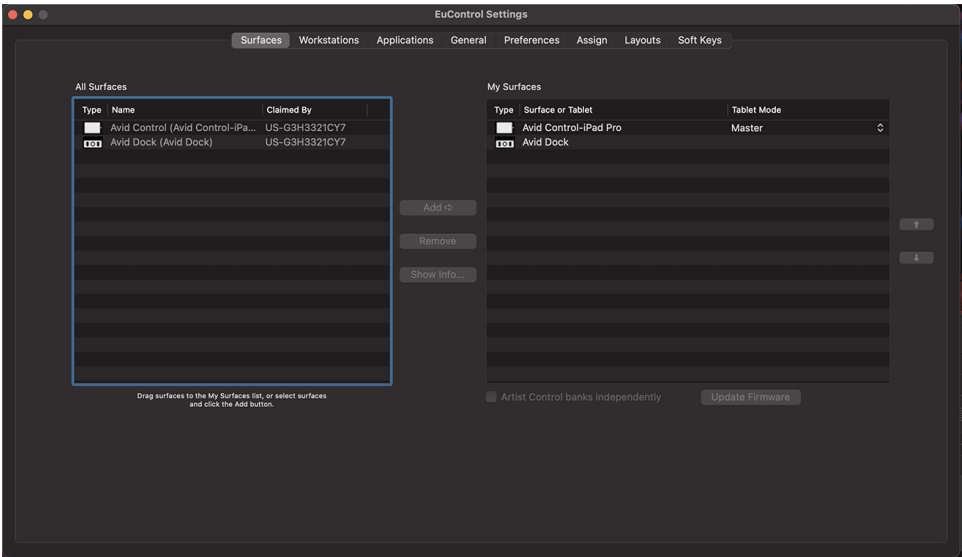
To enter a custom name for a controller:

- Double-click it in My Surfaces and enter a new name.

Configuring Multiple Controllers

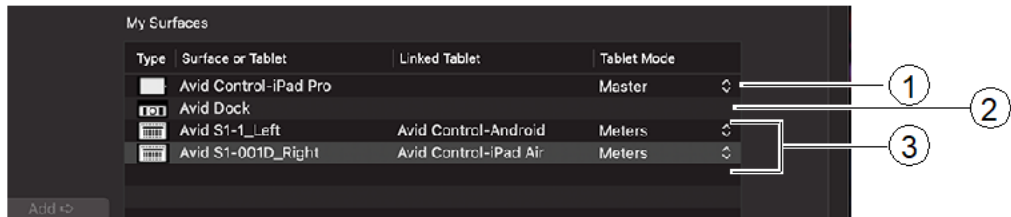
Here are two example configurations with multiple EuControl devices:

Example 1: Avid Control + Dock



Example showing 1x Avid Control and an Avid Dock

Example 2: Avid Control (3x) + Dock + 2x S1



Example of the My Surfaces list showing a configuration with 3x Avid Control tablets, a Dock, and 2x Avid S1 controllers

In the example above:

Legend	Item	Description
1	Avid Control (Master)	This Avid Control tablet is in Master mode, providing all views and controls
2	Avid Dock	Typically, the Master Avid Control tablet is placed on the Dock
3	S1s (2x) with 2x Avid Control (Meters)	Each S1 has a Linked Tablet (Meters mode)

Arranging Multiple S1s or Artist Mix (Fader Order)

The order (top-to-bottom) that surfaces are listed in My Surfaces determines the order of fader strips (1–n, left-to-right). For example, if you add two S1s the top-most S1 will default to tracks 1–8 and the lower S1 to tracks 9–16.

To arrange multiple S1s or multiple Artist Mix units:

- ▶ Select a controller in My Surfaces and use the up/down arrow buttons located to the right of the My Surfaces list.
- ▶ Drag controllers to rearrange their order.

For more information about Tablet Modes, see ["Control App Master, Hybrid, Meters, and Remote Modes"](#) below.

Control App Master, Hybrid, Meters, and Remote Modes

The Control app can be used in Master, Hybrid, Meters, or Remote modes.

Master

The Control app is not linked to any control surface and provides all views (Mixer, Tracks, Channel, Meters, Monitoring, and Soft Keys). Meters view is independent of, and does not follow, control surface banking. When using the Control app by itself, or with only a Dock and/or S3, the app functions in Master mode. There can only be one Master tablet.

Hybrid (Master + Meters)

The Control app is linked to an S1 and all Control app views are available, but Meters view follows the S1 to which it is linked.

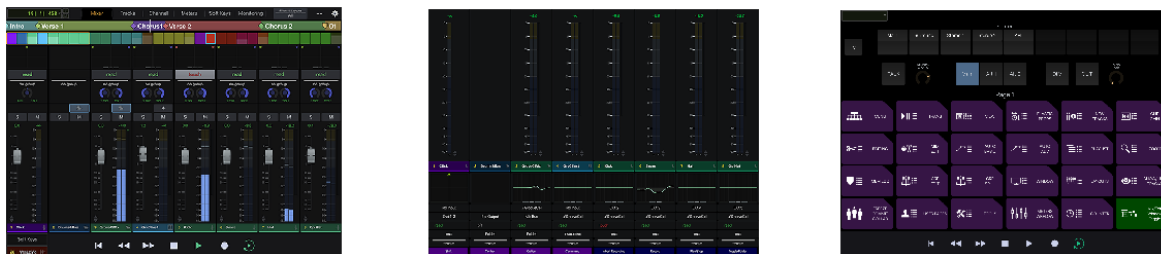
There can only be one Hybrid tablet, or one Master tablet.

Meters

The Control app is linked to an S1 and provides Meters view only, which banks with the S1 to which it is linked. To use the Control app in Meters mode there must be at least one S1, and one other Control app already configured as a Master or Hybrid tablet. Each additional Meters tablet requires its own S1. (Avid Control Desktop, when present, operates in Meters mode only.)

Remote

Avid Control Remote provides a counter in the upper left, monitoring controls across the upper area, the primary Soft Keys view in the center, and transport controls across the lower section. Remote mode does not change views (other than viewing different pages of Soft Keys) for constant and consistent access to essential functions and all Soft Keys. Use Remote mode to listen through different monitor sets, apply Soft Keys, and control playback from anywhere in the room without having to change views or move the Master tablet.



Avid Control in Master or Hybrid mode (left), in Meters mode (center), and in Remote mode (right)

You designate tablets for Master, Hybrid, Meters, or Remote modes in the **My Surfaces** list in EuControl Settings.

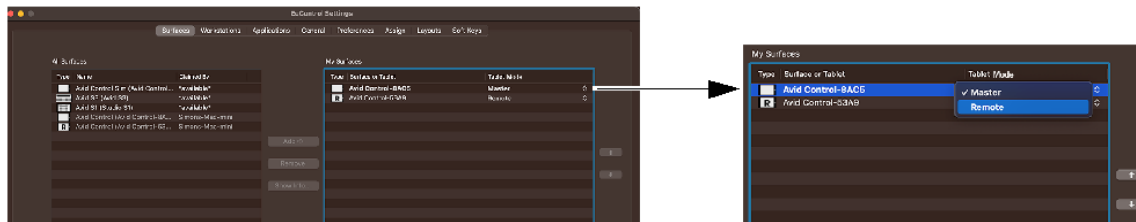
Designating Tablet Mode in My Surfaces

When you first start adding surfaces and tablets to the My Surfaces list in EuControl Settings > Surfaces, tablets are designated for Master, Hybrid, Meters, or Remote mode based on the initial order in which they are added (for Master or Remote) and/or the surfaces to which they are linked (for Hybrid and Meters).

Adding new tablets from All Surfaces to My Surfaces auto-assigns an initial mode based on the following rules:

- If there is no Master tablet in My Surfaces, a new tablet will be auto-assigned as a Master or (if linked to a compatible surface) Hybrid tablet.
- If a Master tablet is already present in My Surfaces, a new tablet will be auto-assigned as a Remote or (if linked to a compatible surface) Meters tablet.
- If both a Master and a Remote tablet are already present in My Surfaces, a new tablet can only be added as a Meters tablet linked to an available S1 (the tablet will not be able to be added as any other mode).

Once tablets have been added to the My Surfaces list, use the Tablet Mode selector to assign tablets to an available mode. Assignments persist. If a tablet briefly disconnects or you have to restart EuControl, Tablet Mode assignments are restored.



Tablet Mode selector in My Surfaces list (shown at left) and choosing a mode (shown at right)

 *The Tablet Mode column and selector will only be shown when compatible surfaces and tablets are in My Surfaces.*

When an unlinked tablet is in My Surfaces, the selector lets you designate that tablet as either a Master or Remote. When linked, choices include Hybrid or Meters.

 *In previous versions of EuControl, a Master or Hybrid tablet had to be in My Surfaces before you could designate any other tablet for Meters or Remote mode. Beginning with EuControl 2024.10 this requirement has been removed. As long as there are no S1s, you can use up to 2x tablets (only) and designate one as a Master and one as a Remote tablet, for example.*

Linking a Tablet to an S1

When a tablet is linked to an S1 it provides Meters view (only) for that S1, showing whichever tracks are banked, spilled or recalled on that S1.

To link a tablet to an S1:

1. In the Surfaces tab of EuControl Settings, add an S1 to My Surfaces.
2. Drag and drop an available Avid Control tablet on top of the same row as the S1. That tablet becomes linked to the S1 and functions in Meters mode.

To unlink a Control app/tablet from an S1:

- Select the S1 row in My Surfaces and click Remove. Both that S1 and its paired Control app are moved to All Surfaces.

To reassign tablets and S1s in the My Surfaces list:

- To link a Control app to a different S1, drag the app onto the new S1.

Changing Modes or Removing Tablets

When changing modes using the Tablet Mode selector, other assignments are maintained as long as the resulting configuration conforms to the following rules:

- There can never be more than one Master tablet. (Both standalone Masters and Hybrids count as Masters.)
- There can never be more than one Remote tablet.

Some changes to Tablet Mode assignment require a tablet to be reassigned or removed. If this occurs, a dialog alerts you.

Here is an example configuration:

Surface	Tablet Mode
Avid Control A	Master
Avid Control B	Remote

Action: Using the Tablet Mode selector, Avid Control B is changed to Master.

Result: Because there can only be one (1) Master, Avid Control A is changed to Remote mode. A dialog appears describing the reassignment with choices to accept or cancel the changes (see ["Too Many Master/Hybrid or Remote Tablets" on the next page](#)).

Surface	Tablet Mode
Avid Control A	Remote
Avid Control B	Master

Here is another example configuration:

Surface	Linked Tablet	Tablet Mode
Avid Control A		Master
Avid Control B		Remote
S1	Avid Control C	Meters

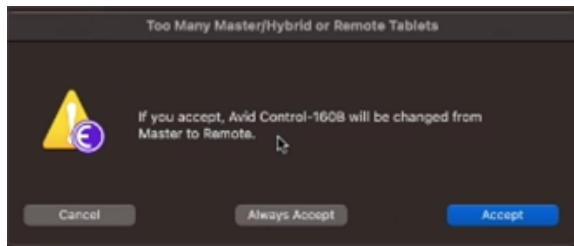
Action: Using the Tablet Mode selector, Avid Control C is changed from Meters to Hybrid.

Result: Avid Control C is changed to Hybrid, Avid Control B is changed to Remote, and Avid Control A is removed from the list.

Surface	Linked Tablet	Tablet Mode
Avid Control B		Remote
S1	Avid Control C	Hybrid

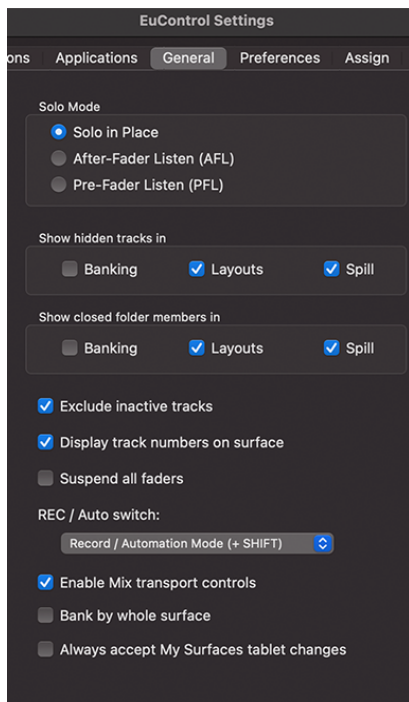
If any other tablet has to be reassigned or removed to allow the new assignments to conform to the rules for Master/Hybrid and Remote modes, EuControl alerts you and lets you accept or cancel the changes.

Too Many Master/Hybrid or Remote Tablets



Example Surface configuration alert when a tablet is re-assigned

Click **Accept** to accept the assignment. Click **Always Accept** to accept the current change to assignment and “don’t show again.” (You can also configure this setting in EuControl Settings > General.) Click **Cancel** to cancel without changing assignments.



EuControl Settings > General, “Always accept My Surfaces tablet changes” setting

For more information about adding and managing multiple Avid Control tablets, see the Using EuControl Surfaces guide.

Hybrid Mode and S1 Sync Preference

When using Avid Control with S1, Hybrid Mode enables two-way synchronization of function controls between the app and surface.

To Enable Hybrid Mode and Sync:

1. Launch Avid Control.
2. Go to **Channel View** settings in Avid Control.
3. Enable the preference: **Sync Function with S1**.

When this setting is active, selecting a function on either the S1 or Avid Control instantly updates the function in both locations. This mirrors the Dock’s 8-knob behavior, creating a more unified experience between surfaces and Avid Control.

Avid Control Desktop

The Avid Control Desktop app is available for macOS and Windows computers. Much like a linked Meters mode instance of the Avid Control app for iOS and Android, Avid Control Desktop provides a customizable Meters view for its associated S1. Unlike the iOS and Android app, however, Avid Control Desktop can also be used for Meters display with an Avid S3.

Avid Control Desktop can show meters for up to 32 tracks, and can be installed on either your primary EuControl workstation or on a separate, external workstation on the same network (does not require EuControl or EuControl External Workstation).

 *In this and other EuControl user guides, references to Avid Control or the Control app refer only to the iOS and Android app. Avid Control Desktop is always referred to as Avid Control Desktop.*

Updating Firmware

Once installed, EuControl software prompts you if the firmware on your Dock, S1, S3, or Artist Series control surface requires updating. The firmware is provided within EuControl, so an Internet connection is not required.

To update control surface firmware:

1. Click (macOS) or double-click (Windows) the EuControl icon and select **EuControl Settings**.
2. If necessary, click **Surfaces** to display the Surfaces tab.
3. Click to select the first hardware control surface in the My Surfaces list so it is highlighted.

 *If a unit does not appear in the My Surfaces list, add it manually. See "Overview of the Surfaces Tab" on page 1.*

4. Click **Update Firmware**.

If the Update Firmware dialog shows a message that the surface is up to date, no further action is necessary.

5. If the firmware needs to be updated, follow the instructions in the Update Firmware dialog box to proceed, and make sure to observe the following guidelines when updating firmware:
 - Ensure that the control surface is connected to a trustworthy power source.
 - Do not power off the unit during the update or attempt to interrupt the update.

The status of the firmware update is shown on the control surface displays as well as in the EuControl dialog.

6. Click **Done** when the firmware update is complete.
7. Repeat for any additional Avid control surfaces (except the Avid Control app or Avid Control Desktop), selecting and then updating their firmware one unit at a time.

Installing a Tablet for Avid Control

Before proceeding, make sure of all of the following:

- All your tablets are running the most recent version of the Avid Control app, and that all Control app/tablets appear in the **My Surfaces** list in EuControl
- If you will be using Avid Control Desktop on a macOS or Windows workstation, make sure it is installed and running

See the *Avid Control Guide.pdf* for instructions on installing and connecting the Control app for iOS and Android, and Avid Control Desktop for macOS and Windows. Place each Avid Control tablet in a stand built into the S1. The Control app supports both landscape and portrait views.



Tablet installed on S1

To keep your tablet charged, connect its charging cable to the USB port on the back of the Dock.



USB charging port on the back of S1



The back panel USB port is for charging and powering your tablet, only. Data communication with EuControl requires a Wi-Fi connection, Apple Camera Connection Kit and adapters (for iOS), or Samsung Galaxy Tab A SM-T590 USB 3.1 Type C to RJ45 Ethernet Adapter (or equivalent, for Android). For more information, see the *Avid Audio Control Guide.pdf*.

Connecting a Footswitch

The S1 has a 1/4-inch footswitch input on the back panel, which can be configured in EuControl Settings to control punch in and out of recording in your DAW, or for engaging talkback.



Footswitch input on the back of S1

For more information on configuring the footswitch, see the *Using EuControl Surfaces.pdf*.

Enabling EUCON in Pro Tools

When you first connect an Avid control surface, you must enable EUCON in Pro Tools. EUCON subsequently remains enabled in Pro Tools unless you disable it.

 To learn how to configure EuControl for other EUCON-compatible applications see the [EUCON Application Setup Guide.pdf](#) or the documentation provided by the application's manufacturer.

The ways you can enable EUCON depend on which version of Pro Tools and operating system you are using.

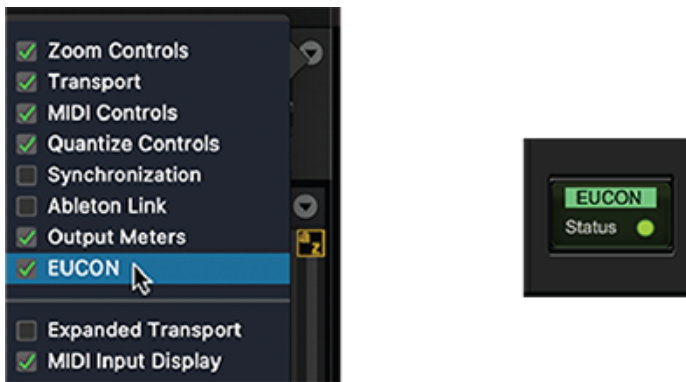
- **Mac only:** When running Pro Tools natively on Apple Silicon Macs, the previously available **Ethernet Controllers** tab in Pro Tools **Setup > Peripherals** is no longer provided. See ["EUCON in the Toolbar"](#) below.
- **Windows or Rosetta (Mac):** When running under Rosetta on Apple Silicon Macs, the Ethernet Controllers tab remains available to enable EUCON (in addition to the Edit window Toolbar controls for EUCON). See ["EUCON in Setup > Peripherals"](#) on the next page

EUCON in the Toolbar

To show EUCON controls in the Edit window:

1. Do one of the following:
 - ▶ Click the Edit Window Toolbar menu (in the upper-right corner of the window).
 - ▶ Right-click the icon in the Toolbar.

- From the menu, select **EUCON**. EUCON controls are shown in the Tool bar.



Selecting EUCON in the Edit window Tool bar menu (shown at left) and EUCON in the Edit window Toolbar (shown at right)

To turn EUCON on or off:

- Click the **EUCON** button.

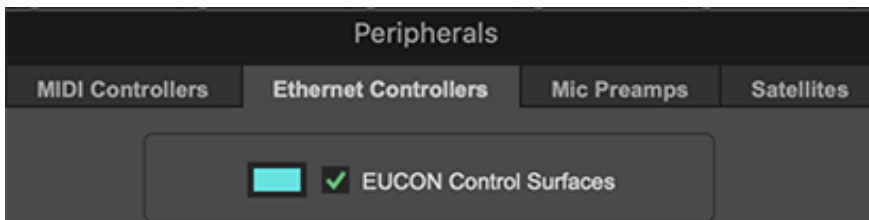
EUCON is enabled when the background is lit green with black text.

The Status LED indicates EUCON communication status. You can also hover over the LED to view a tooltip, if enabled in Pro Tools Preferences.

EUCON in Setup > Peripherals

To enable EuControl in Pro Tools:

- Launch Pro Tools.
If the Dashboard dialog appears, close it.
- Choose **Setup > Peripherals**, click the **Ethernet Controllers** tab, then select **Enable EUCON**.



Enable EUCON check box

- Click **OK**.

You do not need to configure any other Ethernet Controllers settings (they do not apply to EUCON).

Pro Tools scans your system until it identifies attached EUCON-compatible hardware. When Pro Tools finishes scanning your system, your controllers are ready to use with Pro Tools.

If you disable EUCON while connected to a surface, you must restart all components (Pro Tools + control surfaces) before re-enabling.

Always remove surfaces first under **EuControl Settings > Surfaces** before disabling EUCON.

- Proceed to [Confirming EUCON](#).

Confirming EUCON

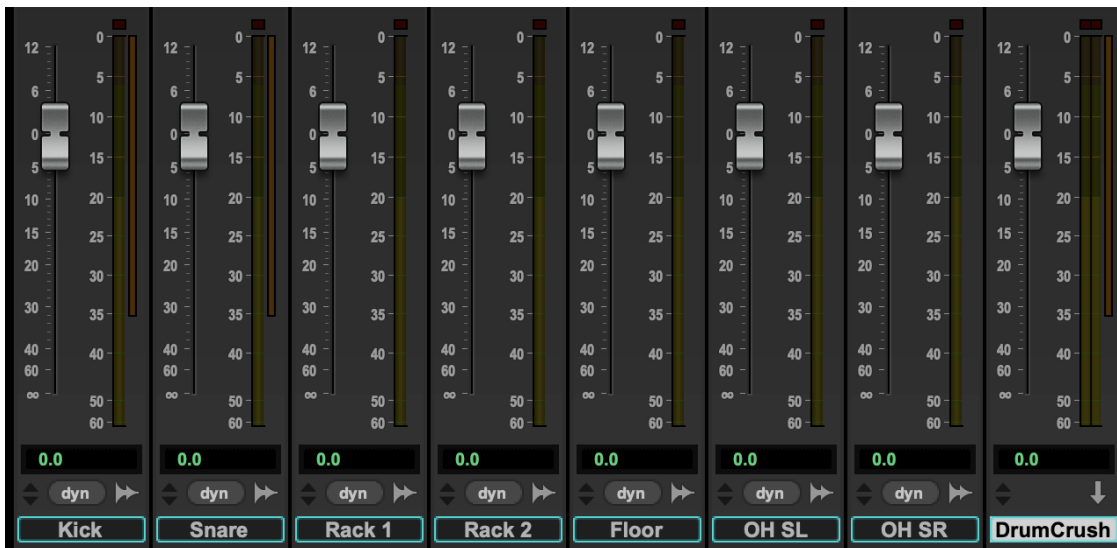
To confirm installation and communication:

1. Make sure you have enabled EUCON.
2. Open a session if one is not already open.
3. Verify that the Tracks or Mixer view in the Control app shows the track names from the Pro Tools session.



Avid Control Tracks view showing the first 16 tracks in a session

4. In the Pro Tools Mix window, verify that the names of the tracks currently banked to fader strips on your control surface are highlighted with blue-green borders.



Pro Tools Mix window showing tracks currently banked to S1

5. Proceed to any of the following:
 - ▶ To connect a second workstation computer, go to ["Connecting a Second Workstation" on the next page](#).
 - ▶ For additional installation information (such as connecting a footswitch, or power up/down instructions) see the guide for your controller(s).
 - ▶ To start learning how to use your controllers with Pro Tools, proceed to ["Using EuControl Surfaces with Pro Tools" on page 1](#).

Powering-On Your System After Initial Setup

After the initial installation and setup, it is recommended to power up system components in the following order.

1. Router or switch: Avid strongly recommends that your router or switch should always be turned on and booted before anything else.
2. Avid media controllers: Dock, S1(s), S3, tablet(s) and Avid Control app.
3. Computer.

If a surface is not recognized by EuControl on your workstation, click the EuControl icon in the menu bar (macOS) or System tray (Windows) and choose **Restart EUCON Applications**. This process relaunches EuControl and re-initiates the connection. See also "[Troubleshooting EuControl Connections](#)" on page 33.



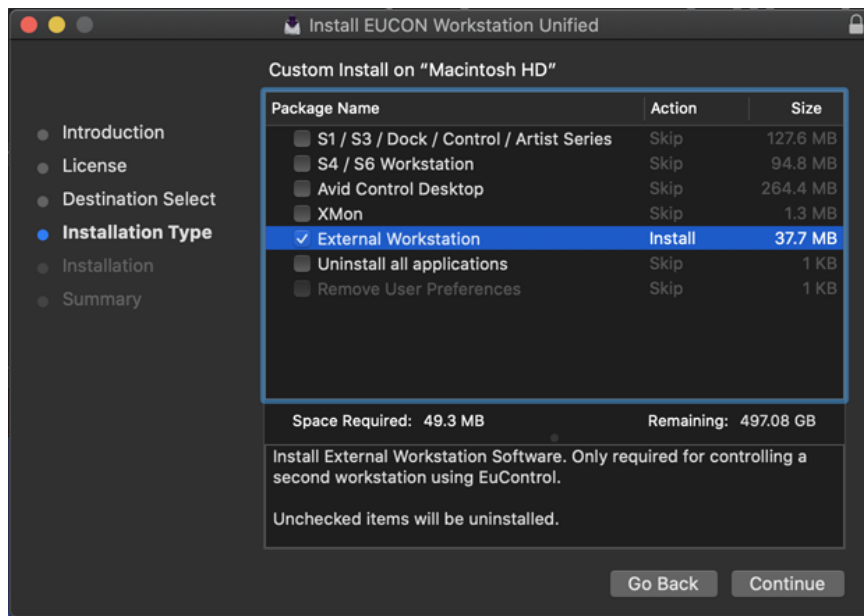
If you find a different power-up sequence that works for your controllers, computer, and particular configuration, power up in that same sequence every time.

Connecting a Second Workstation

Your Avid control surfaces can control applications running on a second computer connected to the same network as the primary computer, referred to in this guide as a *workstation*. If EuControl is running on the same workstation as all your audio/video applications you can skip these instructions.

To be able to control a second workstation:

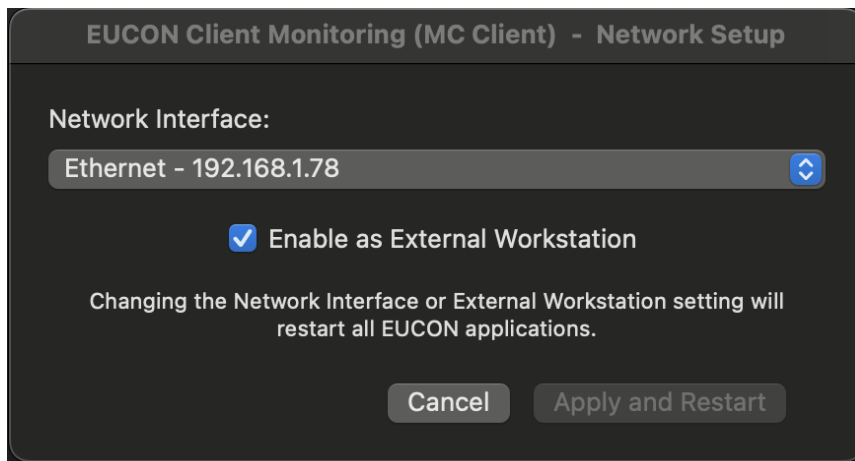
1. Quit (macOS) or Exit (Windows) Pro Tools and any other EUCON applications running on any of your workstations.
2. Transfer the **EUCON_WorkstationUnifiedInstall** file onto the second computer.
3. Do one of the following:
 - ▶ macOS: Double-click the installer to mount it to your macOS desktop.
 - ▶ Windows: Extract the .zip file into a new folder.
4. Double-click the **Install EUCON Workstation Unified** installer.
5. Select the **External Workstation** option and click **Next**.



EUCON Workstation selected in EUCON Combined Installer

6. When installation has finished, complete the following steps on the primary workstation.

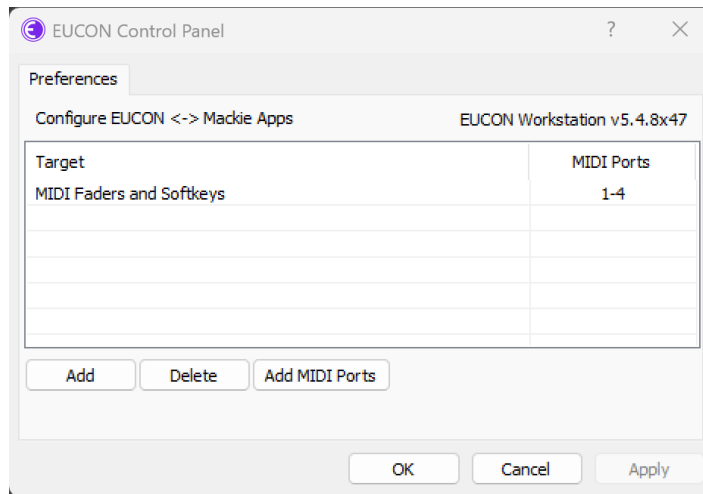
- a. Go to Spotlight (macOS) or Search (Windows), and type **"EUCON Client Monitoring (MCClient)"** to locate the application.
- b. Launch **EUCON Client Monitoring (MCClient)**.
- c. Open EuControl Settings, go to the **Workstations** tab, and click to enable **Enable External Workstations**.
- d. Follow the prompt and wait until EUCON applications restart.
You must also manually relaunch your DAW.
- e. Right-click the EUCON Client Monitoring icon in the system tray (Windows) or menu bar (macOS), and choose Network Setup.
- f. In the **Network Setup** dialog of EUCON Client Monitoring, select the active network interface (Ethernet or Wi-Fi) and enable External Workstation mode if required.



Updated EUCON Client Network Setup dialog inside EUCON Client Monitoring (MCClient)

7. Complete the following steps on the secondary workstation.
 - a. Go to Spotlight (macOS) or Search (Windows), and type **"EUCON Client Monitoring (MCClient)"** to locate the application.
 - b. Launch **EUCON Client Monitoring (MCClient)**.
 - c. Right-click the **MCClient** icon and choose **Network Setup**.
 - d. Make sure the **Network Interface** selector shows the correct network port for your EUCON connection.
 - e. If it is not already enabled, click to enable **Enable as External Workstation**.
 - f. Follow the prompt and wait until EUCON applications restart.

You must also manually relaunch your DAW.



System Preferences in EUCON Control Panel (Windows)

8. On the primary workstation, open the EuControl Settings window by doing either of the following:
 - ▶ On macOS, click the EuControl icon on the taskbar and select **EuControl Settings**.
 - ▶ On Windows, double-click the EuControl icon in the system tray and select **EuControl Settings**.



If you don't see the EuControl icon, it could be automatically hidden by Windows. Click on the small white arrow to show hidden icons, then double-click the EuControl icon.

9. In EuControl Settings, go to the **Workstations** tab.
10. Select your secondary workstation in the **All Workstations** list, then click **Add** to add it to the **My Workstations** list.

You can now switch between workstations by doing either of the following:

- ▶ On the Dock or S3, press the **Workstation** switch.
For example, on the Dock press **SHIFT+App/Workstation**.
- ▶ In the **Workstations** tab of EuControl Settings, select the desired workstation in the My Workstations list and click **Attach**.

If you are using the Control app without any other Artist Series controllers, you must use this method to switch workstations.

See [Workstations](#) for information on the other features of the Workstations tab.

Troubleshooting EuControl Connections

This section provides troubleshooting for EuControl connection issues.

Tablets or Surfaces Disconnecting from EuControl

If your tablets or surfaces are losing connection to EuControl, try the following:

- Make sure the computer is not going to sleep.
- Restart the Control app(s).

- Turn Wi-Fi off and then back on.
- Restart tablet(s).
- Restart EuControl.

Multiple Network Adapters

When launched, EUCON displays a warning message if any possible network conflicts are detected. This type of conflict can occur if both adapters are connected to the same router or switch. For the best, most reliable connectivity and performance, have EUCON on its own, separate network.

For more information, see the *EUCON Networking Guidelines.pdf*, available for download from the [EuControl Product Guides](#) article on our Knowledge Base.

“EUCON Network Not Found” Dialog

If the **EUCON Network Not Found** dialog appears when launching EuControl software on a EuControl External Workstation, check to make sure the correct **Network Interface** is selected in the **EUCON Preferences** (Mac) or **EUCON Control Panel** (Windows).

To select the correct Network Interface for EuControl:

1. Do one of the following depending on your workstation computer’s operating system:
 - ▶ macOS: Go to System Preferences and select **EUCON**.
 - ▶ Windows: Go to the Control Panel and select **EUCON**.
2. From the Network Interface (macOS) or the Select Network Interface (Windows) pop-up menu, select the appropriate Network Interface.
3. In the **EUCON Network Not Found** dialog, choose **Restart EUCON**.
4. If you chose **Quit** in the EUCON Network Not Found dialog, relaunch EuControl by typing “EuControl” into Spotlight Search (macOS) or the Start Menu Search box (Windows), then choose **EuControl**.

Unlit EuControl Icon

If a lit EuControl icon does not appear when EuControl launches, do any of the following:

- ▶ See ["Overview of the Surfaces Tab" on page 1](#) to learn how to add the Control app manually.
- ▶ Click the EuControl icon in the menu bar (Mac) or right-click the choose **Restart EUCON Applications**.
- ▶ Shut down the tablet and your computer, then turn them on (tablet first, then the workstation computer).
- ▶ Make sure the name of your tablet does not exceed 31 characters.
- ▶ See <https://kb.avid.com/articles/faq/Avid-Control-Support> for the most current troubleshooting information.

Optimizing Wifi

To troubleshoot and optimize Wi-fi performance see the **Improving Avid Control Wi-Fi Connections** information in the [Avid Control Support](#) article on our Knowledge Base.

Appset

See [Import Compatible Custom Appset](#).

Removing EuControl Software

To uninstall items:

1. Launch the installer.

Items that are currently installed are selected (checked) and indicated as Installed.

2. Do any of the following:

- ▶ To uninstall specific component, make sure it is not selected (no check mark).
- ▶ To uninstall all EUCON applications, select **Uninstall all applications**.
- ▶ To uninstall all User Preferences, select **Uninstall User Preferences** (your appsets will not be removed).

3. Click **Continue** (macOS) or **Next** (Windows).

How to Proceed

See "[S1 Surface Controls Overview](#)" on page 36 to become familiar with the different sections, controls, and displays on the S1.

For operational information and workflow examples, see the *Using EuControl Surfaces* guide.

3 S1 Surface Controls Overview

This section provides an overview of the surface controls on the S1. For workflow examples that show how to use the S1 in combination with other control surfaces, the Control app, and/or Pro Tools, see the *Using EuControl Surfaces guide* (download the PDF version and other EUCON documentation from [EuControl Product Guides](#)).



S1 top panel

- 1 – "Surface SHIFT" below
- 2 – "Channel Strips" on the next page
- 3 – "Channel Strip Displays" on page 39
- 4 – "Assignable Channel Encoders" on page 40
- 5 – "Channel Encoder Assignment Switches" on page 42
- 6 – "Fader Banking Controls" on page 45
- 7 – "Track Color Switches (Modifiers and User 1–4)" on page 46

Surface SHIFT



Channel Navigation Switches

Surface SHIFT is used in conjunction with other switches to access secondary functions shown above switches.

Channel Strips

S1 provides 8 channel strips, each with a display, an Assignable Channel Encoder (each with its own encoder **Sel** and **In** switches), automation indicator LEDs, a **Solo** switch, a **Mute** switch, a 100mm motorized touch-sensitive fader, a channel select (**Sel**) switch, a record engage (**Rec**)/Automation Mode (**A**) switch, and a level meter.



Channel Strip Display

See ["Channel Strip Displays"](#) on page 39.

Assignable Channel Encoder

See ["Assignable Channel Encoders"](#) on page 40.

Solo

The **Solo** switch lights yellow when that track is soloed.

Mute

The track is muted (off) when the strip **Mute** switch is lit red, and is on (unmuted) when not lit.

Fader

The fader controls the level for the track assigned to the channel strip, or the parameter assigned to the Channel Encoder if Flip is engaged. 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.

When the **Select by Touch** General preference is selected in the EuControl Settings application, touching a fader selects that track in the application and attentions it on that strip. This is the same as pressing the fader **Sel** switch.

Channel Sel and Rec Switches

Rec/Auto Switch

The strip **Rec/A** switch can be configured in **EuControl Settings > General** to provide different pairs of functions in its primary and **Surface SHIFT** layers. Available functions include Automation mode cycling, track Record Enable toggle, track Input Monitor toggle, and automation Trim mode.

The following table lists the layers and functions for the **Rec/A** switch.

Setting	Layer		Notes
	Primary Function	Surface SHIFT Function	
Record / Automation Mode (+ SHIFT)	Track Record Enable	Automation Mode cycle	Default
Automation mode / Record (+ SHIFT)	Automation Mode cycle	Track Record Enable	New in EUCON 2022.12
Record / Input Monitor (+ SHIFT)	Track Record Enable	Track Input Monitor	
Automation Mode / Trim (+ SHIFT)	Automation Mode cycle	Trim Automation mode	New in EUCON 2023.6

When a track is Input Monitor enabled, the strip OLED displays a letter “i.”



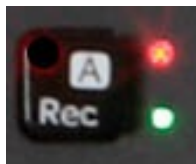
*This global setting applies to the switches labeled **Rec/A** on the Dock, S1, and S3, and labeled **Rec/Auto** on Artist Mix and Artist Control.*

Soft Key for Rec/A

The **REC Auto Switch** setting is available as a Surface command in the Soft Key Command Editor. If you used the previously available Surface Soft Key labeled **Rec-Auto Changes Automation, + Shift Enables Rec**, that Soft Key will trigger the **Automation mode/Record (+ SHIFT)** toggle described above.

Automation Indicator LEDs

Next to each strip **Rec/A** switch, and next to each knob **In** switch, are a pair of automation indicator LEDs.



Track Automation indicator LEDs

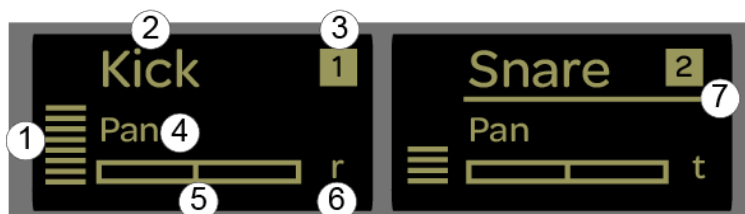
With each pair, the upper red LED and the lower green LED indicate automation status as shown in the following table (0 = unlit, 1 = lit, and * = flashes).

Automation Mode	Red LED	Green LED
Off	0	0
Read	0	1
Touch	1	0
Latch	1	0
Touch/Latch	1	0
Write	1	0
Preview	0	*
Off + Trim	0	1
Read + Trim	0	1
Touch + Trim	1	1
Latch + Trim	1	1
Touch/Latch + Trim	1	1
Write + Trim	1	1

The red LED flashes while writing automation. The green LED flashes in Preview mode.

Channel Strip Displays

At the top of each channel strip is an OLED (organic light emitting diode) display. Each display shows track information as follows:



Channel strip display in Normal Mode

1 – Meter

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

2 – Track Name

Shows the track name as it appears in the application. When a fader is touched, it shows the value of the fader to a tenth of a dB at all positions for all DAWs. After releasing the fader it reverts to showing the track name.

3 – Track Number

Shows the track number relative to its position in the application.

4 – Parameter Name

Shows the name of the parameter currently assigned to the corresponding Channel Encoder. When an encoder is touched, it shows the value of the parameter. After releasing the encoder it reverts to showing the parameter name.

5 – Encoder Position

Shows the relative setting of the control for the currently assigned parameter.

6 – Automation Mode

Shows the track's current automation mode setting and the displayed indicator, as follows:

Mode	Display
Off	(blank)
Read	r
Touch	t
Latch	l
Touch-Latch	tl
Write	W
Trim	<mode>

Not all applications support all the modes listed above.

7 – Attention Indicator

Indicates that the corresponding track is the attentioned track. Any parameters adjusted using the Channel Encoders apply to the attentioned track.

Display Sleep

To preserve display life, the channel displays enter Sleep mode when not in use. This can be set in EuControl Settings by adjusting the **OLED Screen Saver Time** setting.

Assignable Channel Encoders

Each channel strip has one touch-sensitive, continuously rotating encoder for adjusting parameters as assigned by the Channel Encoder Assignment switches (see "[Channel Encoder Assignment Switches](#)" on [page 42](#)). Each encoder can also be pressed, which is typically used to access sub-menus. Each encoder also has corresponding **Sel** and **In** switches.

- A Channel Encoder **Sel** switch assigns a secondary function of the displayed parameter to the corresponding Channel Encoder. For example, engaging the **Sel** switch for an encoder controlling EQ frequency assigns Q (bandwidth) to that encoder.
- A Channel Encoder **In** switch toggles two-state parameters, such as turning an individual EQ Band on/off.

Channel Encoder Modes

The Channel Encoders operate in either Normal Mode or Channel Mode. The channel displays shows the current channel mode.

Normal Mode

In Normal Mode, each Channel Encoder controls the same parameter for every track on the channel strips. A line appears under the attentioned track's name in the display.



Channel displays in Normal Mode, showing “Snare” as the attentioned track

Channel Mode

In Channel Mode, the 8 Channel Encoders control up to 8 different parameters for the attentioned track. In Channel Mode parameter names and value are highlight in each channel display. For the attentioned track, track name as well as parameter and value are highlighted.



Channel displays in Channel Mode, showing “Kick” as the attentioned track

Channel Mode is useful for editing EQs and plug-ins that have many parameters.

Indication of Channel Mode (2024.10 and Later)

On hardware control surface OLEDs, Beginning in EuControl 2024.10, Channel Mode is indicated on hardware control surface OLEDs by a lighter yellow background than in previous versions.



OLED indication of Channel mode

Basic Channel Encoder Use

When S1 is first powered on, the Channel Encoders are in Normal Mode and **Pan** is assigned to the Channel Encoders by default. Each Channel Encoder controls pan for its corresponding track on the strip.

To quickly access pan control on the Channel Encoders in Normal Mode:

- Press the **Pan** Channel Encoder Assignment switch.

To enable Channel Mode:

1. Press a Channel **Sel** switch to attention that track.
2. Press **Surface SHIFT + Flip/Chan**.

- Press the channel Encoder Assignment switch for the desired function such as **Inserts** or **EQ**. The encoder displays show parameters for the selected function.

 Remember, for functions listed above each switch such as **Input**, **Inst**, **HEAT**, **Group**, or **Mix**, hold **Surface SHIFT** while pressing its switch.

- To exit Channel Mode, press **Surface SHIFT + Flip** again.

 Pressing the **EQ Channel Encoder Assign Switch** automatically enables Channel Mode as well.

Channel Encoder Assignment Switches

The Channel Encoder Assignment switches assign sets of adjustable parameters, called *Knob Sets*, to the Channel Encoders. A Knob Set is an array of controls used by EuControl-compatible applications to control plug-ins, EQs, dynamics, aux sends, and other functions using the controls on the S1. Some of these Knob Sets also have sub-menus.

One of the switches is always selected, and the associated parameters are assigned to the Channel Encoders until another Channel Encoder Assignment switch is pressed. When S1 is first powered on, **Pan** is selected by default.



Channel Encoder Assign switches (showing all switches lit to indicate primary LED colors)

The labels *above* each Channel Encoder Assignment switch indicate secondary parameters that can be assigned to the Channel Encoders. The text in white on the switch represents a switch's primary function, and the text in black above the switch represents a switch's secondary function. Secondary functions are accessed by pressing and holding the **Surface SHIFT** switch then pressing the desired Encoder Assign (or other) switch.

The following switches are provided:

Input

Assigns hardware input parameters such as input routing, mic gains, phantom power, and other application-specific parameters to the Channel Encoders.

Inserts

Assigns the top-level Insert Knob Set to the Channel Encoders. When **Insert** is pressed, in each channel display for all currently banked tracks the first insert slot (**a**) is shown, or a plug-in is shown if one is inserted. Pressing a Channel Encoder under the display showing the plug-in you want to adjust enables Channel Mode on the Channel Encoders, and the Knob Set for the selected plug-in is assigned to the 8 Channel Encoders for editing.

 In the Insert Knob Set, parameters are mapped to the Channel Encoders according to the manufacturer's specifications. Parameter mapping can vary between plug-ins, even of the same type.

- Press the **Page** > Channel Encoder Navigation switch to access the next plug-in. Press < **Page** to access the previous plug-in.
- Press the **Back** Channel Encoder Navigation Switch to return to the Channel Encoders to the top-level Inserts Knob Set. Or, you can simply press another Channel Encoder Assignment switch to navigate directly to another Knob Set.

Instr

Assigns the top-level Instrument Knob Set to the Channel Encoders (when an Instrument plug-in is present).

EQ

Assigns the top-level EQ Knob Set to the Channel Encoders. Operation is similar to the Inserts Knob Set, except only the first inserted EQ plug-in on the channel is displayed and accessed. Can also cycle among different EQ plug-ins on a track.



In the EQ Knob Set, parameter mappings to the Channel Encoders are standardized across EQ plug-ins. For example, high band gain controls for two EQ plug-ins from different manufacturers appear on the same encoder.

HEAT (Pro Tools Only)

Assigns the top-level HEAT knob set (when HEAT is available).

DYN

Assigns the top-level Dynamics Knob Set to the Channel Encoders. Operation is similar to the Inserts Knob Set, except only the first inserted Dynamics plug-in on the channel is displayed and accessed. Can also cycle among different Dynamics plug-ins on a track.



In the Dyn Knob Set, parameter mappings to the Channel Encoders are standardized across dynamics plug-ins. For example, the threshold controls for two compressor plug-ins from different manufacturers appear on the same encoder.

Group

Displays the Group Knob Set to configure group or control group (VCA) membership.

- In Normal Mode, the first group is displayed, and pressing the **Page** > Channel Encoder Navigation switch displays the next group if applicable.
- In Channel Mode, up to 8 groups for the currently selected channel can be accessed at once.

Aux

Assigns sends on the Channel Encoders.

- In Normal Mode, the first send is displayed, and pressing the **Page** > Channel Encoder Navigation switch assigns the next set of sends to the encoders.
- In Channel Mode, up to 8 sends for the currently selected channel can be accessed at once.

Mix (Surface SHIFT + Pan/Mix)

Displays the Mix Knob Set to configure track output routing.

Pan

Displays the Pan Knob Set to configure stereo or surround panning. Pan controls are not available for tracks with mono or no output path assignments.

Channel (Surface SHIFT + Flip/Channel)

Toggles the Channel Encoders between Normal Mode (unlit **Channel** switch) and Channel Mode (lit yellow **Channel** switch). In Normal Mode, the attentioned track name is underlined to show which track's parameters will be expanded in Channel Mode. The switch LED lights yellow when Channel mode is engaged, and orange when both Channel and Flip modes are engaged.

Flip

Toggles what is currently assigned to the knobs (such as pan or send parameters) to the faders. The **Flip** switch flashes whenever Flip mode is engaged (including when **Chan** mode is active). A vertical double arrow appears in the channel strip display when the faders and knobs are flipped. Press **Flip** again to toggle the faders and knobs back to normal. You can use Flip mode with Aux sends, for example, to quickly set up headphone mixes using the faders. (The Dock does not follow Flip.)



Flip indicator in OLED display

The switch LED lights green when Flip is engaged, and orange when both Channel and Flip modes are engaged.

Channel Encoder Navigation Switches

Since a Knob Set may have more parameters than encoders, use **Back/Top**, **Page/Config**, and **Page** switches to navigate through available parameters.



Channel Navigation Switches

Back

Returns to the previous Knob Set. Press **Back** repeatedly to back out of all sub-menus and display the top of the current Knob Set.

Top

Returns to the top-level Knob Set.

Config

Enters Config mode, from which you can insert plug-ins and assign sends.

< Page, Page >

Assigns the previous or next set of parameters to the Channel Encoders. The switches light when there is a previous or next set to go to. For example, if Send A is assigned to the Channel Encoders, pressing the lit yellow **Page >** assigns Send B to the Channel Encoders. In addition, **< Page** lights orange if there is a previous page and Config mode is enabled, and lights green if Config mode is enabled but there is no previous page.

S1 X Button

If the S1 surface is focused on any of the following functions (knob sets) the **X** switch (**Surface SHIFT + Page > / X**) lets you do the following for the currently attentioned track:

Function	Action	LED Indication*
Inserts Top Level	Toggle bypass on all inserts for the attentioned track	Bypassed, LED is unlit All enabled, LED lights green Mixed state, LED lights amber
Plug-In	Toggle bypass on the plug-in for the attentioned track	Bypassed, LED is unlit All enabled, LED lights green
EQ	Toggle bypass on the EQ for the attentioned track	Bypassed, LED is unlit All enabled, LED lights green
Dyn	Toggle bypass on the Dynamics for the attentioned track	Bypassed, LED is unlit All enabled, LED lights green

*The LED indication is only visible when **Surface SHIFT** is depressed.

Fader Banking Controls

Bank tracks to the channel strips using the **Bank** and **Nudge** switches. **Home** and **End** are shortcuts to the first and last banks, respectively.



Fader Navigation controls

Bank and Nudge

The **Bank** and **Nudge** switches change which tracks are assigned to the channel strips, as follows:

< Bank

Banks 8 tracks to the left. If tracks 17–24 were banked to strips 1–8, pressing **< Bank** banks tracks 9–16 to strips 1–8. Pressing the switch again does nothing because the first bank is already shown.



EuControl provides “bank stop” which prevents the Bank switches from banking beyond the first or last track. The Nudge switches, however, do let you navigate beyond the first or last track.

Bank >

Banks 8 tracks to the right. If tracks 1–8 were banked to strips 1–8, tracks 9–16 are now banked to strips 1–8.



Bank and Nudge switches are also used to spill VCAs in Multi-Master mode. For more information, see the [Using EuControl Surfaces.pdf](#).

< Nudge

Banks tracks one track to the left. If tracks 2–9 were banked to channel strips 1–8, pressing < **Nudge** once banks tracks 1–8 to strips 1–8. Pressing < **Nudge** again banks tracks 1–7 to strips 2–8.

Nudge >

Banks tracks one track to the right. If pressed once while tracks 1–8 were banked to channel strips 1–8, tracks 2–9 are banked to strips 1–8.



With Pro Tools, pressing both Nudge switches spills and unspills Folder Tracks. For more information, see the [Using EuControl Surfaces.pdf](#).

Bank and Nudge Pro Tools

The S1 **Bank** and **Nudge** switches can also bank the Mix and/or Edit windows in Pro Tools. To have Pro Tools follow S1 banking, in Pro Tools go to **Setup > Preferences**, open the **Mixing** tab, and in the **Controllers** section enable **Edit Window Follows Bank Selection** and/or **Mix Window Follows Bank Selection**.

Home and End

Home (Surface SHIFT + < Bank/Home)

- ▶ Banks tracks 1–8 to the channel strips.

End (Surface SHIFT + Bank >/End)

- ▶ Banks the last set of tracks to the strips.

Mixer and Close

Not all applications support these switches.

Mixer (Surface SHIFT+ < Nudge/Mixer)

- ▶ Toggles Mix and Edit windows in Pro Tools.

Close (Surface SHIFT + Nudge >/Close)

- ▶ Closes any open window in the application.

Track Color Switches (Modifiers and User 1–4)

Track Color switches at the bottom of each fader strip default to showing the assigned track colors for tracks banked to the surface. On each S1, the four left switches provide Modifier functionality, and the four right switches provide customizable User switches.

By default, the **Surface SHIFT** layer recalls Layouts 1–8. All 8 switches can be customized in the Soft Key Editor of EuControl Settings. The color mode for the switches can also be customized to show track color (default), Track Colors and Spill, or Soft Key colors using the **S1 Soft Key Colors** setting in the **General** tab of EuControl Settings.

When using two or more S1s, each can have their own unique 8 Soft Key assignments.



Track Color switches

Modifier and User Switches

The Modifier switches duplicate the function of the computer keyboard modifiers. Note that multiple keys can be held down together. The table below lists each Modifier key's function for Mac and Windows, and the default assignments for User 1–4.

Track Color / Modifier Key default functions for Mac and Windows								
	Shift	Control	Opt/Win	Command/ Alt	User 1	User 2	User 3	User 4
Mac	Shift	Control	Option	Command	Abort	Record	Play/Stop	Toggle
Windows	Shift	Ctrl	Win	Alt	Record			Folder

User Switches

All 8 Track Color switches are customizable. Use the **Soft Keys** tab in EuControl Settings to assign your own EUCON, page, key, or surface commands to these switches.



*In the default Pro Tools Soft Keys, hold **Surface SHIFT** and press a Track Color switch 1–8 to recall Layouts 1–8.*

For complete information on Soft Keys and other features within EuControl Settings, see the *Using EuControl Surfaces* guide.

A Setting IP Addresses

In most types of installations you will never have to set a static Internet Protocol (IP) address, but in the rare cases that require it, use the instructions in this section.

Normally, Avid S1, Dock, and S3 use Dynamic Host Configuration Protocol (DHCP) to obtain IP addresses, typically from a router. S1 reverts to link-local addressing to generate an IP address if a DHCP server is not found on the network, such as when an S1 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 S1 will then use 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 both **⌘PAGE** keys (**⌘PAGE** and **PAGE**) simultaneously, press and release the **POWER** switch. Continue to hold the Soft Keys down until the strip 1 display shows the following:



Use DHCP yes

2. To be able to set a static IP address, do either of the following:
 - Press the left-most (strip 1) encoder **Set** switch.
 - Press the strip 1 encoder.

The strip 1 display now shows:



Use DHCP no

To cancel and leave DHCP enabled, press the strip 1 encoder **On** switch.

3. While **Use DHCP no** is displayed press the strip 1 encoder to move to the next screen, in this case the first field of the IP Address screen. The first three digits (such as 192) are underlined indicating they are focused for editing.
 - To increase or decrease the currently focused value, rotate the strip 1 encoder.
 - To focus on the previous or next value/page, press **⌘Page** or **Page**. Or press the strip 1 encoder to advance to the next value/page.
 - To change the value for the Subnet Mask, continue pressing **Page >** until the current Subnet Mask value is shown, then adjust values as described for IP Address.



Example IP Address display (shown at left) and example Subnet Mask display (shown at right)

4. If necessary, set the Subnet Mask using the same techniques described in the previous steps.
5. Press both **Page** keys (**⏪Page** and **Page⏩**) simultaneously to save this static IP address.

To cancel any changes made to the IP address at any time, power off the S1 before pressing **⏪Page+Page⏩**.

After the configuration is saved S1 automatically reboots to its new configuration.

B Specifications

All specifications subject to change.

Module: Avid S1

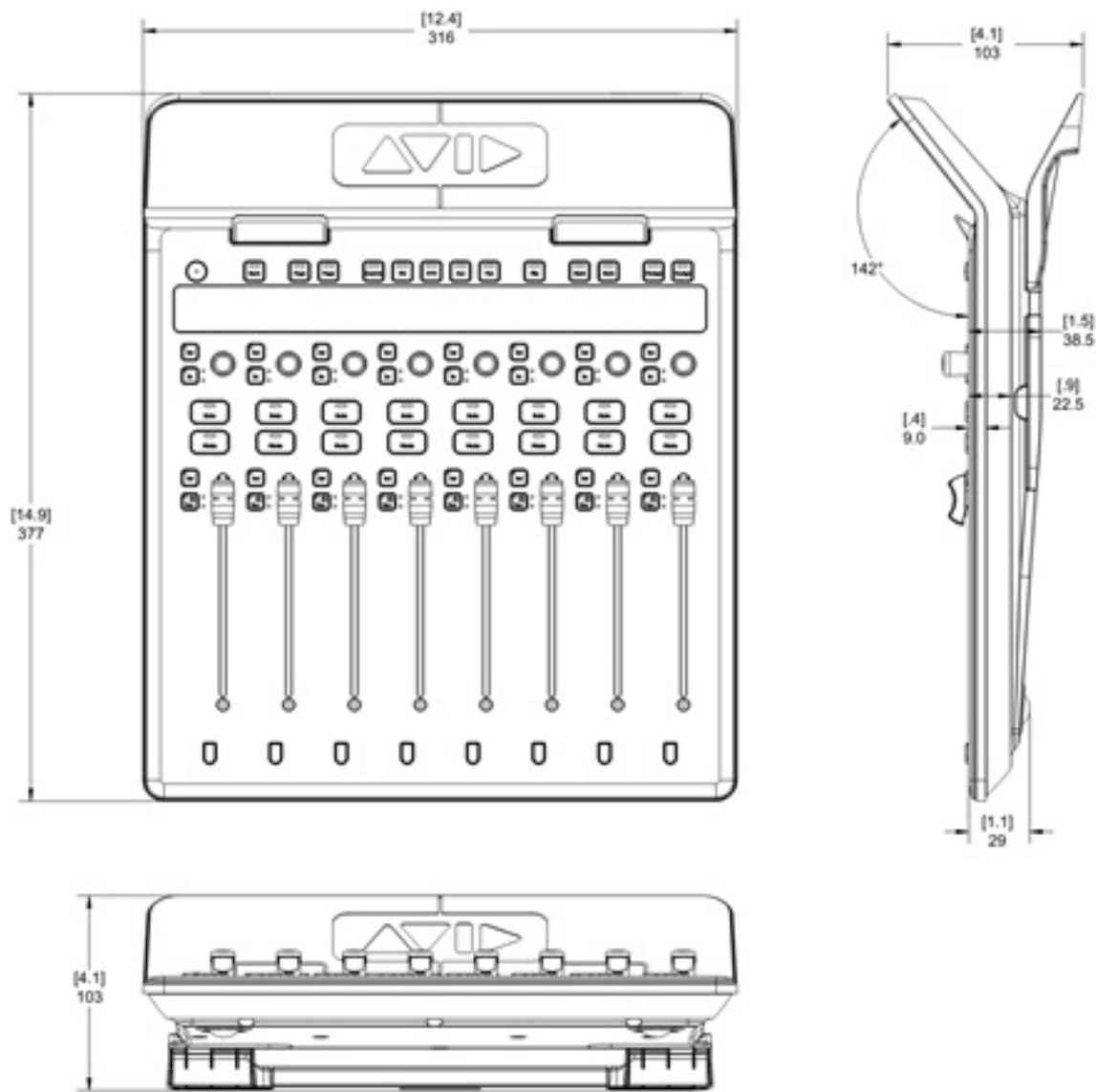
Avid S1 Mechanical Specifications

Parameter	Specification
Height (front)	1.1 in (29 mm)
Height (rear)	4.1 inches (103 mm)
Width	12.4 in (316 mm)
Depth	14.9 in (377 mm)
Weight	4.17 lbs
	1.89 kg
Power Requirements	2.8 A
Ethernet Port	1000-BaseT (Gigabit) Ethernet RJ-45

Avid S1 Environmental Specifications

Parameter	Specification	Limit	Units	Condition / Comment
Storage Temperature	-18 to +60 deg C		deg C	0 to +140 deg F
Operating Temperature	+4 to +40 deg C		deg C	+40 to +104 deg F
Storage humidity range	5 to 95		%	Non-condensing
Operating Humidity Range	20 to 80		%	Non-condensing
Continuous Vibration (Storage only: non-powered transportation)	1		g RMS	Random spectrum

Dimensions



Test Mode

The Avid S1 has several status and self-test modes that can be entered at power up.

The following table identifies each Avid S1 test mode by name, lists the S1 switches to hold down while powering on the unit, and provides a description of each mode. For example, to see the IP address currently assigned to an S1, hold **◀Page** and **Page▶** while powering the unit on.

Test Mode	Key Combination	Description
Show Version	SHIFT (Surface SHIFT in upper left corner)	Show currently installed firmware version.
IP Configuration	◀ Page + Page ▶	See "Setting IP Addresses" on page 48 .
Test Mode_ Production	◀ Bank + Bank ▶ + Nudge ▶	Press any switch to test it (switch name appears across all displays). Touch any fader or encoder to test touch sensitivity. Move any fader to move it and the fader immediately to its right.



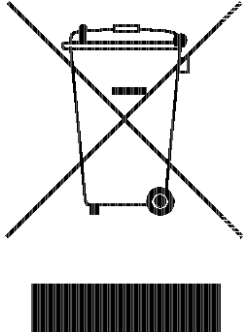
Do not attempt to use any other test modes to avoid possible damage to the unit or its components.

C Compliance Information

Model Name: Avid S1 Model #: 9100-65814

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 can expose you to chemicals including Pb and Pb compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to <https://www.p65warnings.ca.gov/>.

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 <https://dtsc.ca.gov/perchlorate/>.”

Recycling Notice



EMC (Electromagnetic Compliance)

Avid declares that this product complies with the following standards regulating emissions and immunity:

- FCC Part 15 Class B
- CAN ICES-003 Class B
- EN 55032 Class B
- AS/NZS CISPR 32 Class B
- CISPR 32 Class B
- EN 61000-3-2
- EN 61000-3-3
- EN 55103-2, Class E2, E3 and E4
- EN55024

FCC Compliance for United States

Radio and Television Interference

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 locate 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



Canada ICES-003 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.

Korea Class B EMC Compliance

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Japan VCCI B Compliance

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI-B

CE Compliance

(EMC, Safety and RoHS)



Avid is authorized to apply the CE (Conformite Europeenne) mark on this compliant equipment thereby declaring conformity to EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and RoHS Directive 2011/65/EC.



For technical support go to
www.avld.com/support