



S6 Master Joystick Module

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

Guide Part Number 9329-65581-00 REV A 10/15

Safety Compliance

This equipment has been tested to comply with USA and Canadian safety certification in accordance with the specifications of UL Standards: UL 60065 7th Ed., 2007-12-11, CAN/CSA C22.2 No. 60065-03, 1st Ed, 2006-04 +A1:2006, EN 60065:2002 + A1:2006 + A11:2008, IEC 60065:2001 + A1:2005 + A2:2010.

Avid Technology Inc., has been authorized to apply the appropriate NRTL 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.
- 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.

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.

- 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:

It should remain accessible after installation.

18) The equipment shall be used at a maximum ambient temperature of 40° C.

19) This unit is 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.

20) For products with more than one power cord:

CAUTION: This unit has more than one power supply cord. Disconnect two power supply cords before servicing to avoid electrical shock.

ATTENTION: Cet appareil comporte plus d'un cordon d'alimentation. Afin de prévenir les chocs électriques, débrancher les deux cordons d'alimentation avant de faire le dépannage.

21) For products with an operator-accessible fuse:

CAUTION: 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.

Contents

- Introduction** 1
 - Module Capabilities and Features** 1
 - System Requirements and Compatibility** 1
 - Product Activation and Registration, and Software License Activation** 2
 - About This Guide** 2
 - Resources** 3

- Installing the Master Joystick Module** 4
 - Installing Modules** 4
 - Calibrating the Joysticks** 6

- Master Joystick Module Hardware Overview** 7
 - Joystick Module Top Panel** 7

- Appendix A. Utility Test Mode** 8

- Appendix B. Specifications** 9
 - Mechanical** 9
 - Environmental** 9
 - Dimensions** 10

- Appendix C. Compliance Information** 11
 - Environmental Compliance** 11
 - EMC (Electromagnetic Compliance)** 12

Chapter 1: Introduction

The Pro Tools®| S6 Master Joystick Module provides two touch-sensitive joysticks, a central pan display, dedicated panning mode switches, and other displays and controls.



Avid S6 Master Joystick Module

Module Capabilities and Features

- Two touch-sensitive (non-motorized) joysticks, each with **Sel** (select) switch, and **In** switch with automation indicator LED
- One 3.2-inch wide TFT display
- 16 Panning mode switches
- Two channel sections with associated knobs, switches and OLED displays
- 2-pin 12 V Power
- One 1000-BaseT (Gigabit) Ethernet RJ45 connector

System Requirements and Compatibility

The S6 Master Joystick Module is compatible with Pro Tools | S6 systems with S6 Software v2.1 or higher and its corresponding S6 Workstation software, and requires Pro Tools 12.3 or higher.


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

For complete system requirements and a list of qualified computers, operating systems, hard drives, and third-party devices, visit: www.avid.com/compatibility

Product Activation and Registration, and Software License Activation

As soon as you have assembled your S6 system and confirmed a successful hardware installation, activate your S6 system software on-line. Use the alphanumeric code on the included *S6 System Software Activation Card* to activate and download all S6 system software and documentation.

If you are upgrading a system, check your Avid account for the latest S6 system software. Follow the instructions found in the most recent edition of the *What's New in S6* guide to download and install the latest S6 software.

 *Be sure to activate your purchase using the Activation Card included with the Master Module so you can receive software updates and your software License Activation ID directly in your Avid account. Check your Avid account for system software updates, Workstation software, and monitor control software (XMON EUCON software, and Studio Monitor Pro).*

Registering

By registering, you become eligible to receive the following:

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

Software License Activation Information

Follow the instructions in the most recent edition of the *S6 Guide* (if installing an S6 for the first time) or the *What's New in S6* guide (if upgrading a system) to download and install the latest S6 software. After installing S6 Master Module software v2.1 or higher, you will be prompted to activate your software license. Follow the on-screen instructions to activate your software license.

About This Guide

This guide provides installation guidelines and a hardware overview of the S6 Master Joystick Module, for Avid S6 system.

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 names of switches and keys on the control surface are shown in bold (such as **Select**). In addition, the **Shift** switch on the Fader, Master, and Joystick Module is always shown in bold to distinguish it from the Shift switch on the computer keyboard.

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.*

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.

<https://www.avid.com/account>

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 the User Conference.

<https://www.avid.com/Support/index.html>

Training and Education

Study on your own using courses available online or find out how you can learn in a classroom setting at an Avid-certified training center. For example, check out the series of Get Started Fast with S6, available from the main S6 product page:

<http://www.avid.com/products/avid-S6>

Products and Developers

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

<https://www.avid.com/Products/index.html>

News and Events

Get the latest news from Avid or sign up for an S6 demo.

Chapter 2: Installing the Master Joystick Module

The Master Joystick Module (MJM) is installed just like other S6 modules. This guide provides basic installation instructions to use as a guideline. Your exact installation procedure will differ depending on whether you are installing the module while assembling your S6 frame for the first time, or adding the module to an existing system.

First Time S6 Assembly See the most recent version of the *S6 Installation Guide* for step-by-step instructions to determine module arrangement, assemble the frame, install and connect Ethernet and power, install modules, and update system software. The *S6 Installation Guide* can be downloaded from your Avid account (<https://www.avid.com/account>).

Expanding an S6 System If you are adding an MJM to an existing system the exact installation procedure is determined by whether or not you need to expand your frame by adding a chassis or power supply, and/or moving or adding an Ethernet switch.

- If you are adding a module to a chassis that already has available Ethernet and power, follow the instructions in this guide.
- If you are adding a chassis or power supply, and/or moving or adding an Ethernet switch see the *Expanding an S6 System* guide, available for download from your Avid account or from the Knowledge Base (see [Resources](#)).

Mini Fill Panel If you also purchased a Mini Fill Panel, refer to the documentation included with it to install it next to the MJM. The Mini Fill Panel lets you install a Master Joystick Module in slot 1 (closest to the operator) while keeping other modules in that chassis aligned. Basic instructions are included on the following pages of this guide.

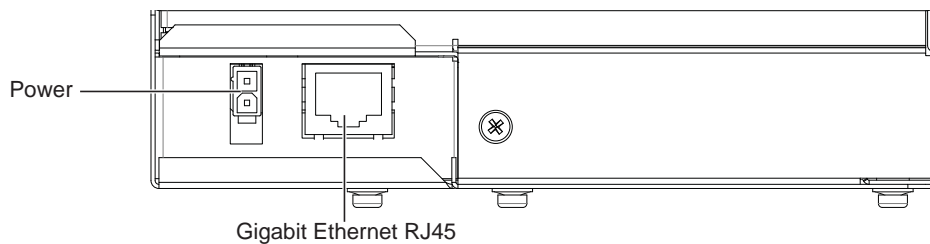
Installing Modules

To install the module:

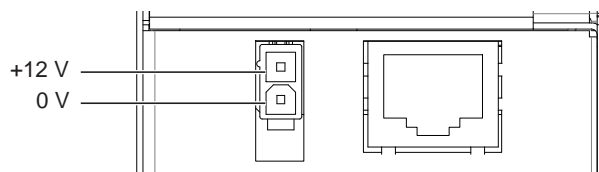
- 1 Shut down the Master Module by navigating to Settings > About, and tapping Shut Down. Wait until the Master Module completely shuts down.

⚠ Always shut down the Master Module before powering down the system!

- 2 Turn off power at the source device supplying power to the S6 Power Strip (UPS, power conditioner or other).
- 3 Determine where you want to install the new module. Remove any Fill Panels from that location, and/or move existing modules as necessary.
- 4 Connect power and Ethernet cables from the cable harness in the chassis to the connectors on the module. Connectors for power and Ethernet are located along the side of the module.



The Master Joystick Module is powered by 12 VDC. The power input connector is a 2-conductor Molex.



- 5 Install the module in an available slot in your S6 frame.
 - If you purchased a Mini Fill Panel (“1” in Figure 1) place it in the chassis first, then place the Joystick Module (“2” in Figure 1) behind it. Optionally, install the MJM closest to the Bolster and install the Mini Fill Panel behind it.

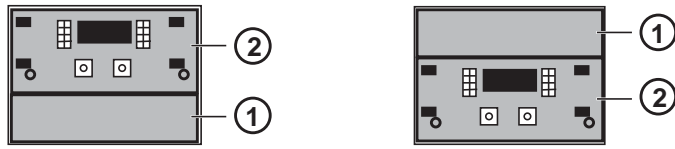


Figure 1. Installing the Mini Fill Panel in front of the Joystick Module (at left) or behind the module (at right)

- 6 Power on the system and make sure the module powers up and is receiving Ethernet.
 - The corresponding lights on your S6 network switch should light or flash, indicating it is communicating with the module.
 - The center screen should show the pan grid.
 - The left **Config** switch LED will light yellow if the module has not yet been added to the surface configuration. After the MJM has been added to the surface configuration, this LED lights purple when the system is powered on.
- 7 Install other modules (if any) or Fill Panels above the MJM, install or re-install Compression Panels, then install T-strips to secure modules into the chassis.
- 8 Download and install the most recent S6 Master Module and Workstation software, available for download from your Avid account (<https://www.avid.com/account>). For complete instructions on installing and activating software, see the *S6 Guide*.

To configure the surface for the Master Joystick module:

- 1 Make sure you have updated S6 system software to the latest version.
- 2 Go to Settings > Surface, then tap Config (or press its Main Menu switch). Buttons for Surface, Expand, L Spill, and R Spill appear across the bottom of the screen.
- 3 Tap Surface.
- 4 Select your Frame Depth and Frame Width from their drop-down selectors, then tap Next. At the top of the screen, allowable module arrangements appear in columns.
- 5 Swipe the displayed module stacks to the left to show the available arrangements for Master Joystick Modules.

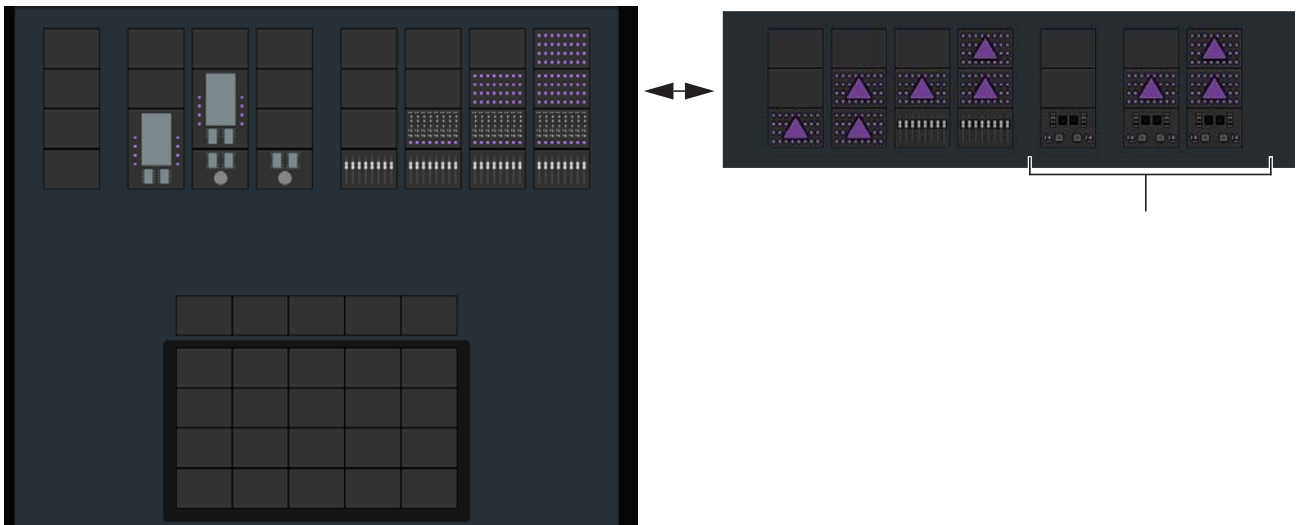



Figure 2. Module arrangements for Master Joystick Modules in Settings > Surface > Config

- 6 Drag module stacks to the frame diagram until it matches your physical arrangement of modules. All allowable module combinations are displayed on two pages.
 - To replace an existing module, drag a new module stack into that slot.
 - To remove a module from your frame, drag the empty stack into that slot.

- 7 Tap Next to continue.
All controls on the surface illuminate. If the controls do not light, check your connections made during installation.
- 8 To confirm that the module flashing in the Surface page is connected and correctly positioned, touch or press any physical control on that module.
Its lights turn off, and the next module flashes. If a module's lights do not turn off, check your assignments in the Settings > Surface page. Tap Undo if you touch the wrong module.
- 9 When all modules are confirmed, tap Next, then follow the on-screen instructions to configure Display Modules (if any) and complete the surface configuration.

 *Display Modules cannot be installed in the same chassis as a Joystick, Master, or Automation Module.*

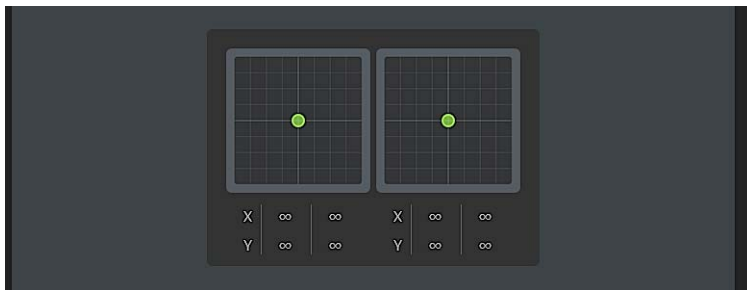
- 10 After configuring your surface you can calibrate the joysticks.

Calibrating the Joysticks

After installing the Master Joystick Module and configuring your surface arrangement, calibrate the joysticks to optimize their response. You can calibrate the joysticks at any time.

To calibrate the joysticks:

- 1 Navigate the Touchscreen to Settings > Surface, then tap Config at the bottom of the screen.
- 2 Tap Joystick (or press the switch directly below it) along the bottom of the screen and follow the instructions on-screen to calibrate the joysticks.
- 3 Move each joystick through their entire range until the displayed values stop changing.



Joystick Calibration screen in Settings > Surface, Config

- 4 Tap Done to accept the new calibration, or tap Cancel to exit without changing the calibration settings.

Chapter 3: Master Joystick Module Hardware Overview

This section identifies the controls and displays on the Master Joystick Module. For information on using the Master Joystick Module to adjust pan and other parameters, see the *What's New in S6 v2.1.pdf*, or the *S6 Guide v2.1.pdf* available from your Avid account and from our Knowledge Base (see [Resources](#)).

Joystick Module Top Panel



Joystick Module top panel

1 – Joysticks

Two touch-sensitive joysticks, each with **In** and **Sel** switches. The **In** switches have automation indicator LEDs.

2 – Panner Display

One 3.2-inch (8.1 cm) wide TFT display, to show pan location, divergence, and other parameters. The **Setup** switch below the display is not yet implemented.

3 – Panning Mode Switches

Two banks of eight switches each. Each switch is labeled with its primary function in white, and its **Shift** function above in purple. **Mode**, **Alt 1**, **Alt 2**, and **Link** are not implemented.

4 – Channel Switch Sections

Each section provides channel **Attention**, **Solo**, **Mute**, and **Record Enable**, automation switches (**M** and **F**), and a display. The Joystick and Fader Module displays are similar, but the Joystick display shows track Name (not values).

5 – Encoder Sections

Each encoder section shows Pan functions only, and provides a dual-function knob that can be rotated and pressed. Each encoder also has **In**, **Sel**, **Config** (Back), and Page (< >) switches. The knobs and **In** switches have automation indicator LEDs.

Appendix A: Utility Test Mode

If you want to run diagnostic tests on any module to troubleshoot it (except Display Modules), you can enable Utility Test mode on that module. Note that after running Utility Test mode on a module, the module will have to be rebooted from the Surface page on the Master Module.

To enable Utility Test mode on a module:

- 1 Make sure the modules are fully powered up and initialized.
- 2 Hold down the two switches listed below for several seconds until each of the OLEDs on that module display the Avid logo.

Accessing Utility Test Mode

Module	Switches to Hold
Master Joystick Module	Select + Swap (upper left)
Fader Module	Select + Swap (channel 1)
Process Module	Clear + Func (channel 1)
Knob Module	Select (channel 1) + Select (channel 2)
Automation Module	Select + Swap (Attention Track)
Master Module	Sel + In (next to top knob on left side of Touchscreen)

- 3 Release the enable switches and the OLEDs display tests available on that module.
For example, the Master Joystick Module will show Displays, Vegas, Exit, Main, System, and Inputs.



The specific tests available on each module may differ from those listed in this guide.

Available tests are indicated by their adjacent switches flashing.

- 4 Press the flashing switch for the desired test to see choices for that mode.
For example, the Master Joystick Module Displays test mode lets you choose OLED, LCD, LED, or Back.
- 5 Press the flashing switch for the desired test.
- 6 To end the test and return to the previous page of choices, press the switch for Back.
- 7 To exit Utility Test mode, press the flashing switch below Exit.
- 8 After performing a Utility Test on any module, reboot each module by doing the following:
 - Navigate the Touchscreen to the Surface page.
 - Tap the tested module(s) on-screen to select it.
 - Tap Reboot (at the bottom of the screen).
 - After rebooting modules, tap the banner display to dismiss the alert dialog.

Appendix B: Specifications

Module: S6 Master Joystick Module

Mechanical

S6 Master Joystick Module Mechanical Specifications

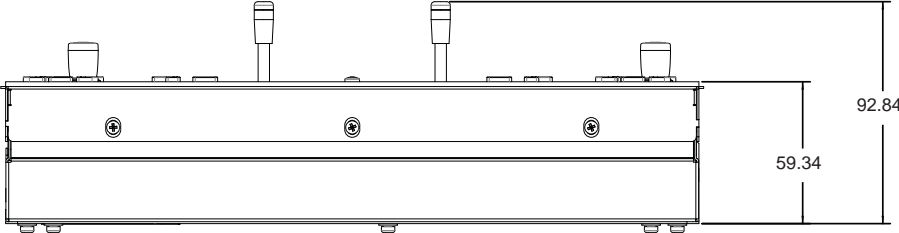
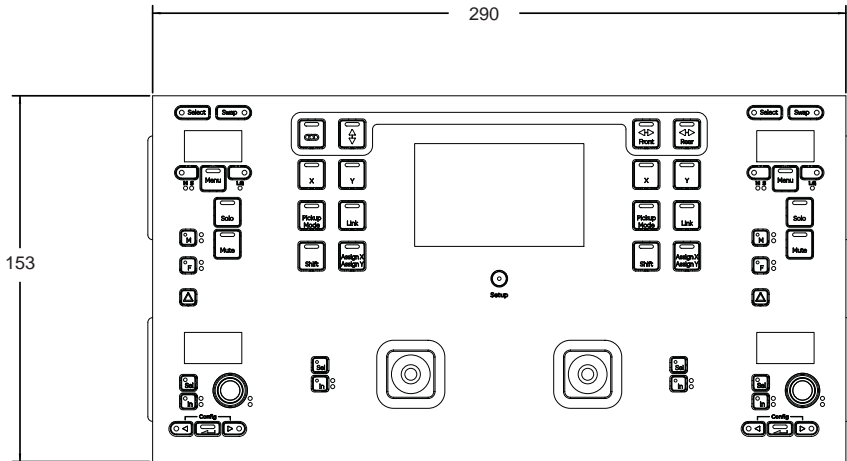
Parameter	Specification
Dimensions (L x W x D)	6.0 x 11.6 x 2.4 inches (+ 1.3 inches including joysticks) 153 x 294 x 60 mm (+ 33 mm including joysticks)
Weight	3.6 lbs (1.63 kg)
Power Requirements	0.7 A
Ethernet Ports (2)	1000-BaseT (Gigabit) Ethernet RJ-45

Environmental

S6 Master Joystick Module 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



Appendix C: Compliance Information

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/hazardous_waste/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
- EN 55022 Class B
- AS/NZS CISPR 22 Class B
- CISPR 22 Class B
- EN 55103-1, Class E2 and E3
- EN 55103-2, Class E2 and E3

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 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



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.

Korea Class B EMC Compliance

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

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 2004/108/EC, Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EC.



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