



# **LIVEMIX PRO AD-16**

USER GUIDE V1.0  
MARCH 17, 2026

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## **SAFETY INSTRUCTIONS**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. CONTACT DIGITAL AUDIO LABS FOR SERVICING.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated and/or potentially dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### **POWER CORD NOTICE FOR INTERNATIONAL OPERATION**

Please call Digital Audio Labs Support at 952-401-7700.

## **IMPORTANT SAFETY INSTRUCTIONS**

1. Read and understand this entire manual.
2. Keep this manual available for reference.
3. Heed all warnings and precautions in this manual and notices marked on the product.
4. Do not use this product near water or damp environments.
5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
6. Provide for proper airflow around product. Do not install near products that produce high levels of heat. Do not expose the unit to direct sun light or heating units as the internal components' temperature may rise and shorten the life of the components.
7. 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.
8. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they connect to the product. Do not use the unit if the electrical power cord is frayed or broken.
9. Only use attachments/accessories specified by the manufacturer.
10. Unplug this product during lightning storms or when unused for long periods of time.
11. Refer all servicing to qualified service personnel. There are no user serviceable components inside the product.
12. The product shall not be exposed to moisture. Do not touch the unit with wet hands. Do not handle the unit or power cord when your hands are wet or damp.
13. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.

## **CARE**

- From time to time you should wipe off the front and side panels and the cabinet with a dry soft cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel lettering.
- The Livemix system is capable of delivering high levels of volume. Please use caution with volume levels, listen with the lowest possible volume for proper operation and avoid exposure to prolonged high volume levels.
- The manufacturer cannot be held responsible for damages caused to person, personal possessions, or data due to an improper or missing ground connection.

## **DIGITAL AUDIO LABS LIMITED WARRANTY**

Digital Audio Labs (DAL) warrants their products against defects in material and workmanship for a period of two years from date of purchase. During this period, Digital Audio Labs will, at its option, repair the defective unit or replace it with a new or rebuilt one.

The warranty does NOT cover:

- Damage due to abuse, misuse, or accident.
- Damage due to operation contrary to the instructions in the product instruction manual.
- Units on which the product serial number has been removed or altered.
- Units that have been serviced by unauthorized personnel.

All implied warranties, including warranties on merchantability and fitness, are limited in time to the length of this warranty. Some states do not allow time limitations on implied warranties, so this limitation may not apply to you. Digital Audio Labs' liability is limited to the repair or replacement of its product. Digital Audio Labs shall in no way be held liable for incidental or consequential damages resulting from the use of their product or its software, including, without limitation, damages from loss of business profits, business interruption, loss of business information or other pecuniary loss. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

## **REPAIR POLICY**

Please do not return the product without obtaining an RMA number first. Contact Digital Audio Labs at [support@digitalaudio.com](mailto:support@digitalaudio.com) to acquire an RMA number. Do not return the product to the place of purchase. Please write the RMA number on the outside of the shipping carton. Any product sent to us without a valid RMA number will be refused. Include the following with the product: a brief description of the problem, your name, return shipping address, phone number and the RMA number. Do not include any accessories. DAL is not responsible for any damage to or loss of the product during transit. We recommend that customers obtain a receipt and tracking number for all packages shipped to us. Turnaround time on repairs is generally ten business days. If you live outside of the United States, please contact your local distributor for warranty service.

Please return product to:  
Digital Audio Labs  
Attn: RMA Number  
1266 Park Road  
Chanhassen, MN 55317  
USA

## **WARRANTY SERVICE**

You will be required to pay the shipping charges when you ship your product to DAL. DAL will pay for return shipping via UPS ground. We reserve the right to inspect any product that may be the subject of any warranty claim before repair is carried out. For warranty service, we may require proof of the original date of purchase if you have not registered your product with DAL. Final determination of warranty coverage lies solely with Digital Audio Labs.

## **NON-WARRANTY SERVICE**

If it is determined that the product does not meet the terms of our warranty, you will be billed for labor, materials, return freight and insurance. There is a \$80 USD minimum charge for materials and labor. Appropriate shipping charges will be applied. We require payment in advance of repair by credit card; we accept Visa and Master Card. In the event the charges are over the minimum charge, DAL will contact you and inform you of the cost of the repair before any work is completed.

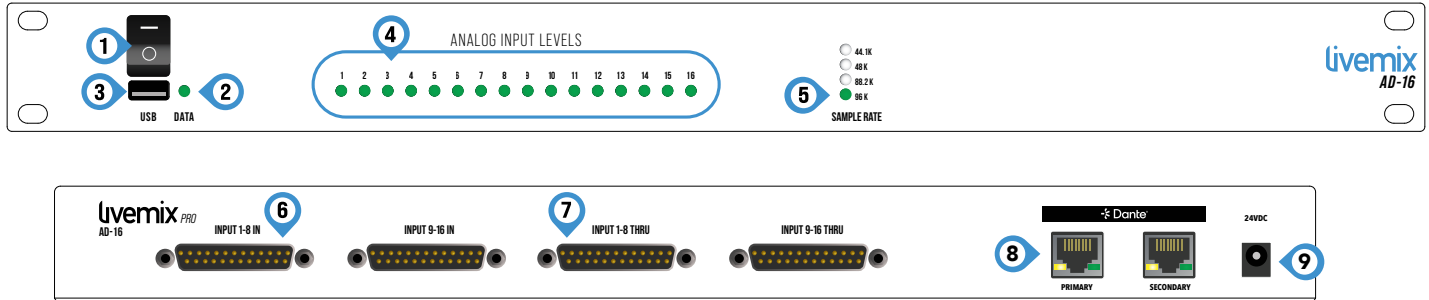
# CONTENTS

<b>SAFETY INSTRUCTIONS</b>	<b>2</b>
<b>DIGITAL AUDIO LABS LIMITED WARRANTY</b>	<b>3</b>
<b>INTRODUCTION/OVERVIEW</b>	<b>5</b>
<b>CONNECTING THE AD-16</b>	<b>6</b>
CONNECTING THE ANALOG INPUTS	6
CONNECTING THE ANALOG THROUGH	6
CONNECTING WITHOUT A NETWORK SWITCH	6
CONNECTING WITH A NETWORK SWITCH	7
<b>DANTE SETUP AND ROUTING</b>	<b>8</b>
SETTING SAMPLE RATE WITH DANTE CONTROLLER	8
ROUTING AUDIO WITH DANTE CONTROLLER	8
<b>FRONT PANEL LED INDICATORS</b>	<b>9</b>
<b>FIRMWARE UPDATES</b>	<b>9</b>
<b>TASCAM DB-25 WIRING DIAGRAM</b>	<b>9</b>
<b>LIVEMIX SUPPORT</b>	<b>10</b>
<b>AD-16 SPECIFICATIONS</b>	<b>10</b>

## INTRODUCTION/OVERVIEW

The Livemix Pro AD-16 is an analog to Dante Network converter for live sound and studio use. Incredibly simple to use, the AD-16 receives audio on back panel DB-25 connectors and passes it through via DB-25 to your destination. Audio is converted to the Dante Network format and can be routed using Dante Controller from Audinate. Front panel LED indication shows which channels are active for easy troubleshooting.

## ANATOMY OF THE AD-16



### 1. POWER

This switch turns power on/off.

### 2. DATA LIGHT

This light will illuminate green when the AD-16 is connected to a Dante Network.

### 3. USB SLOT

USB port for Firmware Updates.

### 4. ANALOG INPUT ACTIVITY AND VU METER

LED indication of signal activity and strength.

### 5. SAMPLE RATE INDICATOR

The Sample Rate of the Dante Network will be displayed here.

### 6. DB-25 INPUT

Two 8 channel DB-25 ports allow for 16 analog input channels (TASCAM format).

### 7. DB-25 THROUGH

The THROUGH ports send an unaltered mirror of the input to your interface or mixer.

### 8. DANTE NETWORK CONNECTION

Connect directly to the Dante Network ports on a Livemix Pro-16/32 or to a Dante Network switch. These ports can be configured to run in Switched mode (default) or Redundant mode. Switched mode is the most common in smaller Dante setups. In this mode the two ports act as a network switch so that an external switch is not necessary.

### 9. POWER INPUT

Connect the included power supply here.

## CONNECTING THE AD-16

The Livemix Pro AD-16 is relatively simple to setup. Please read the following instructions if you are new to Dante Networks.

### CONNECTING THE ANALOG INPUTS

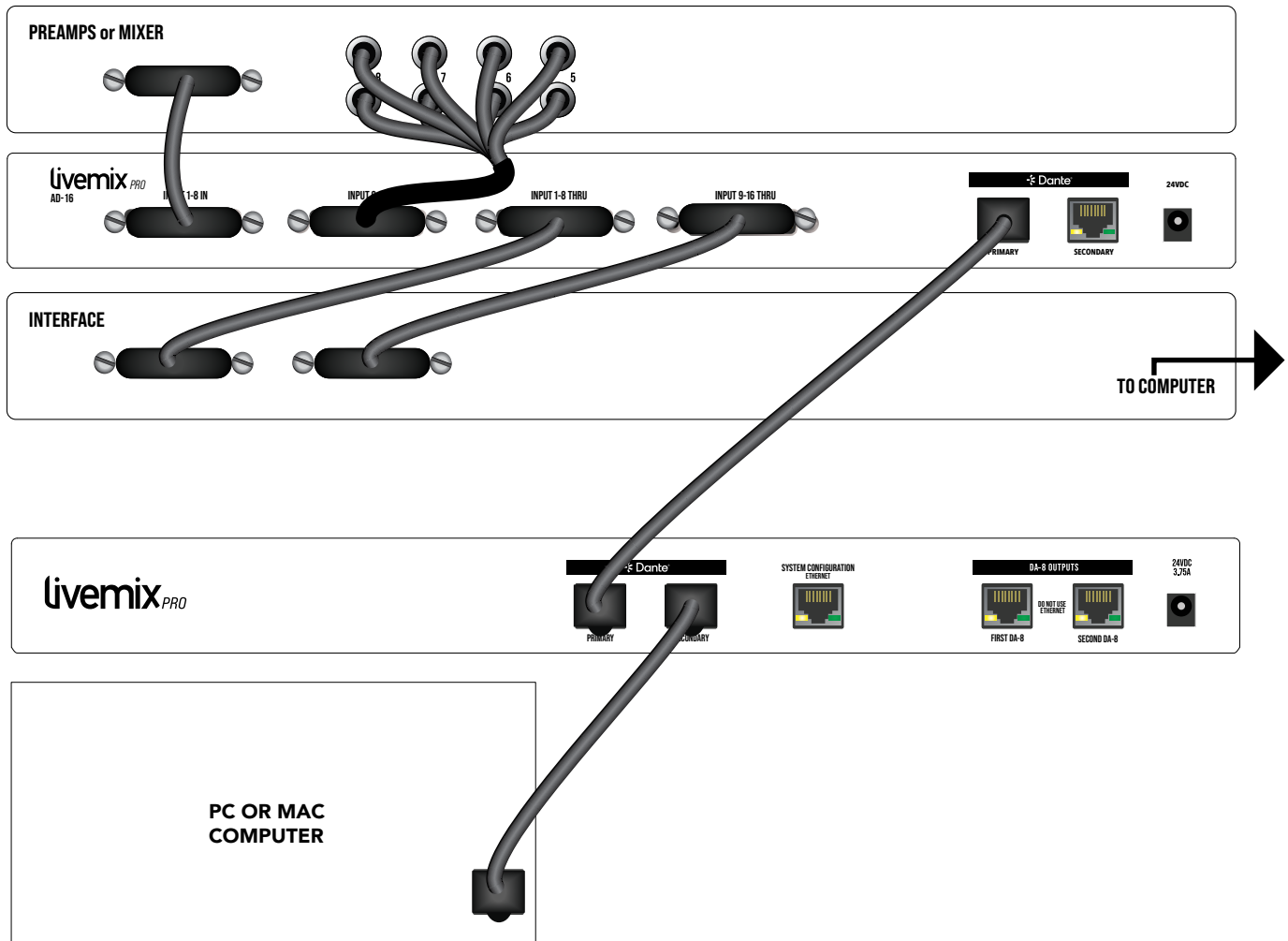
Connect analog audio from line level source to the DB-25 Input connectors of the back of the AD-16. Each of the two DB-25 INPUT connectors provides up to 8 channels in TASCAM format.

### CONNECTING THE ANALOG THROUGH

The input audio will pass from the INPUT DB-25s to the THROUGH DB-25s with no signal degradation. Connect these to your mixing console, audio interface, or other desired device.

### CONNECTING TO DANTE

All of the setup for the AD-16 is performed in Dante Controller. Dante Controller is a free application provided by Audinate for configuring a Dante Network. You can download Dante Controller from Audinate at <https://www.getdante.com/products/software-essentials/dante-controller/>.



### CONNECTING WITHOUT A NETWORK SWITCH

The two Dante Network Ethernet ports on the back of the AD-16 are in Switched mode by default. In this configuration, the two ports act as a network switch.

If you are using the AD-16 with a Livemix system:

1. Connect the Primary Dante port on the AD-16 to the Primary Dante port on the Livemix distribution unit.
2. Connect the Secondary port on the AD-16 to the Ethernet port on your PC or Mac computer.
3. Load Dante Controller application to configure the network. See the Setup with Dante Controller section.

If you are using the AD-16 with a device with a single network port, the setup is the same as above, however, using a network switch may be a better practice.

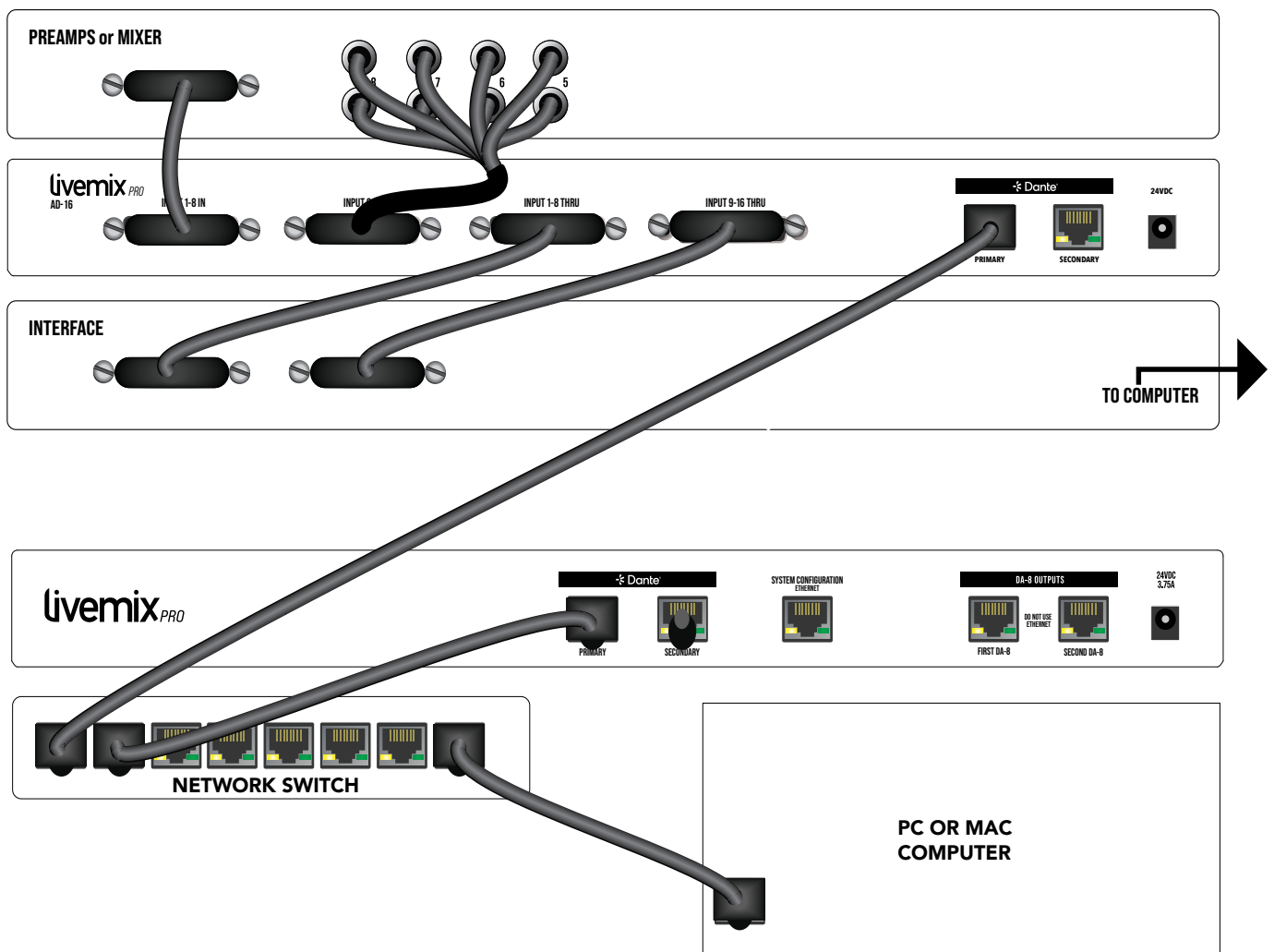
### CONNECTING WITH A NETWORK SWITCH

If using a Network switch, the switch will be the central hub and all the Dante devices should connect directly to the switch.

Using the AD-16 with the Livemix system and a network switch:

1. Connect the Primary Dante port on the AD-16 to the network switch
2. Connect your PC or Mac computer to the network switch.
3. Connect the Primary Dante port on the Livemix Pro 16 or pro 32 to the network switch.
4. Load Dante Controller application to configure the network. See the Setup with Dante Controller section.

Note, in switched mode, either Dante Network port can be used. In Redundant mode, the ports need more setup as they run on separate networks.



## DANTE SETUP AND ROUTING

Use Dante Controller to set the sample rate and route audio from the AD-16 to the Dante Network.

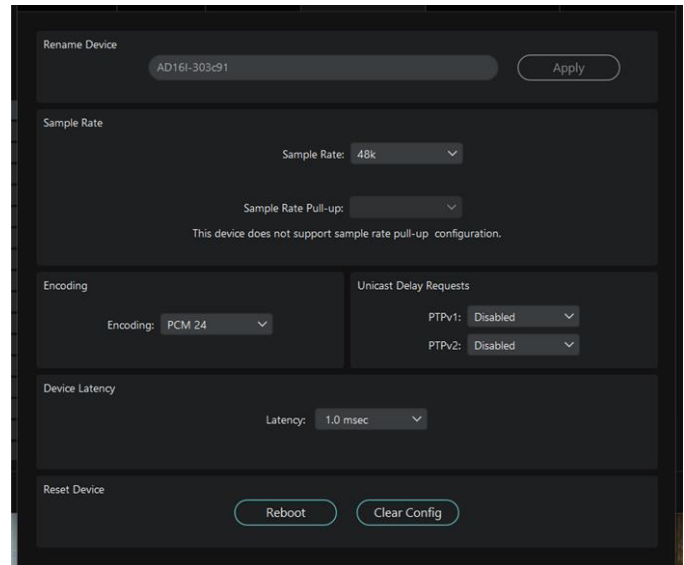
### SETUP WITH DANTE CONTROLLER

Set up for the AD-16 is performed with Dante Controller.

### SETTING SAMPLE RATE WITH DANTE CONTROLLER

Set the sample rate of the AD-16 system with Dante Controller.

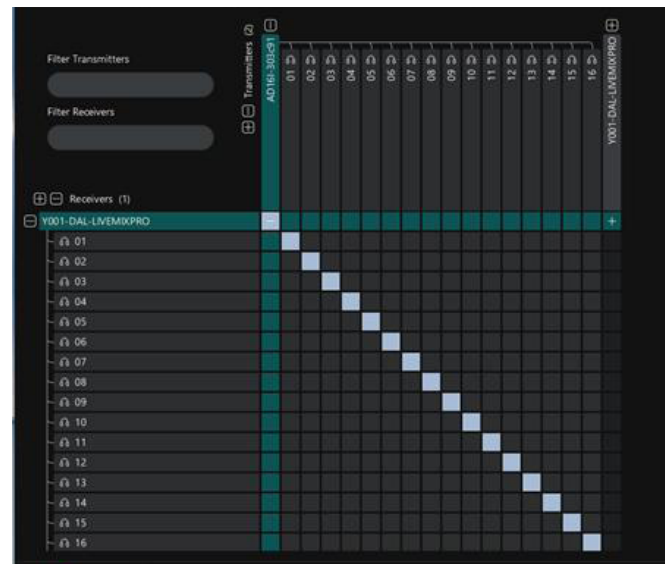
1. Using the Devices menu in Dante Controller menu bar, select Device View.
2. Select the AD-16 from the drop down menu in the top bar where it says (Select a Dante Device)...
3. Select the Device Config tab
4. Change the sample rate in the Sample Rate section. Select a sample rate that matches other devices in the system.
5. Press Reboot. The AD-16 system will reboot and be unavailable for 15-30 seconds.



### ROUTING AUDIO WITH DANTE CONTROLLER

Use Dante Controller to route audio from the AD-16. The AD-16 is a Transmitting device only. Use the Routing window in Dante Controller to route audio from the Transmitting AD-16 to your desired receiving device(s).

1. In the Routing window in Dante Controller, expand the Transmitting device along the top horizontal row by pressing the [+] next to the AD-16 device.
2. Expand the desired Receiving device in the vertical Receivers column by pressing the [+] next to the device name.
3. To assign a receiving channel to a transmitting channel, hover over the grid space where the Transmitting device channel and the Receiving device channel intersect (Figure 2). Click to assign.
4. Repeat for each desired pairing



*To quickly assign subsequent channels, hover over the [-] between the Transmitting and Receiving devices. Press CONTROL while clicking to assign multiple subsequent channels at once.*

### SETTING SWITCHED MODE WITH DANTE CONTROLLER

Use Dante Controller to set the Dante ports into Switched mode. This should be on by default.

1. Using the Devices menu in Dante Controller menu bar, select Device View.
2. Select the AD-16 from the drop down menu in the top bar where it says (Select a Dante Device)...
3. Select the Network Config tab.
4. In the Dante Redundancy section in the New: select drop down, select Switched.
5. Press Reboot. The AD-16 system will reboot and be unavailable for 15-30 seconds.

## FRONT PANEL LED INDICATORS

When audio is present on an input channel, the front panel LEDs function as VU meters.

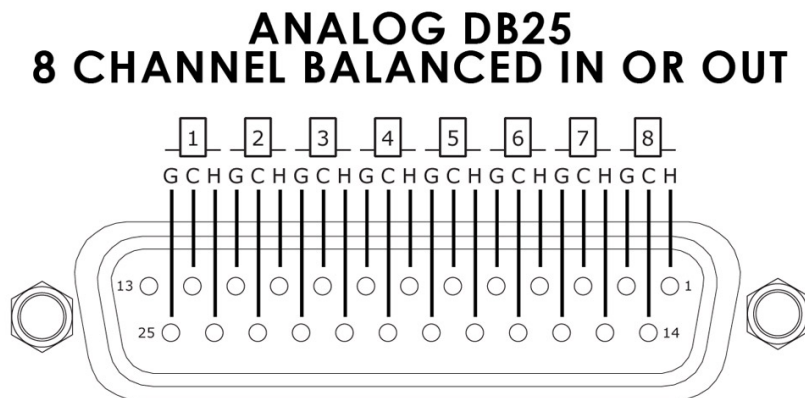
- GREEN: -61 dBFS to -6 dBFS
- YELLOW: -7 dBFS to 0 dBFS
- RED: Over 0 dBFS

## FIRMWARE UPDATES

To update a Livemix AD-16 unit:

1. Download the latest firmware from <http://www.digitalaudio.com/support>.
2. Unzip the firmware zip file and copy the LMUPDATE folder to the root directory of a FAT32 formatted USB flash drive. Please make sure the LMUPDATE folder is not inside another folder and is in the “root” of the USB flash drive.
3. With the Livemix Pro AD-16 powered OFF, insert the USB Flash Drive into the front panel USB port.
4. Power on the AD16 and the update will automatically begin
5. When the LEDs on the front panel of the AD16 start “pointing” at the USB drive, remove the drive.
6. The update will finish once the drive is removed. The AD16 will reboot itself once the update is complete

## TASCAM DB-25 WIRING DIAGRAM



## LIVEMIX SUPPORT

Phone Support: 952-401-7700  
Toll Free: 844-DAL-INFO  
Email Support: [support@digitalaudio.com](mailto:support@digitalaudio.com)  
Website: [www.digitalaudio.com/support](http://www.digitalaudio.com/support)

## DIGITAL AUDIO LABS

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Chanhassen, MN 55317

## AD-16 SPECIFICATIONS

THD+N	-107.5 dB
S/N Ratio	-119 dB
Crosstalk	-64dB Left to Right
Sample Rates Supported	44.1K, 48K, 88.2K, 96K
Max cable length from PRO-16/32	100m CAT5e (shielded cable required)
Dimensions	19" (483mm) W 6.25" (159mm) D 1U, 1.75" (44mm) H
Weight	4.70 lbs (2.13kg)



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Livemix is a registered trademark of Digital Audio Labs.  
Patents pending.