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AFM-20DSP-LE Quick Start Guide

This guide helps you install and use your AFM-20DSP-LE for the first time.

Go to www.kramerav.com/downloads/AFM-20DSP-LE to download the latest user manual and check if firmware upgrades are available.

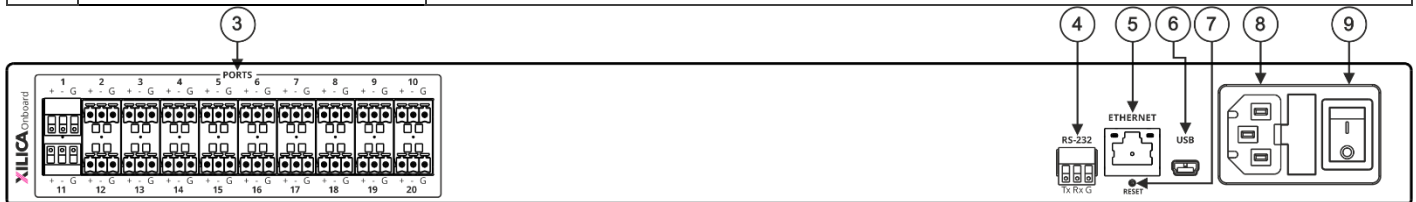
Step 1: Check what's in the box

- AFM-20DSP-LE 20 Port Audio Matrix
- 1 Set of rack ears
- 1 Quick start guide
- 1 Power cord
- 4 Rubber feet

Step 2: Get to know your AFM-20DSP-LE



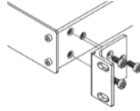
#	Feature	Function
1	STATUS LED	<p>Indicates system status:</p> <ul style="list-style-type: none"> Almost 3 cycles of red/blue/off/green LEDs flashing in sequence for about 30 seconds when system is starting up, and the application has not been launched yet. Flashing green when application is initializing. Green when system is ready for operation.
2	PORTS LEDs (1 to 20)	<p>Indicate port status:</p> <ul style="list-style-type: none"> Green when an input signal is present, and the port is defined as line in. Red when in clipping state. White when defined as line out. Orange when in limiting state. Blue when defined as mic in. Off when there is no signal on the input.



#	Feature	Function
3	PORTS 3-pin Terminal Block Connectors (1 to 20)	Interchangeable balanced mono audio ports. Connect to an audio source or acceptor in one of 7 selectable I/O configurations: 16x4, 14x6, 12x8, 10x10, 8x12, 6x14, 4x16. Each port can be defined as line in, mic in, mic + 48V in, or line out.
4	RS-232 3-pin Terminal Block Connector	Connect to a PC/serial controller to control the device.
5	ETHERNET RJ-45 Connector	Connect to a PC via a LAN to control the device and for firmware upgrade.
6	Mini USB Connector	Connect to your PC to control the device.
7	RESET Recessed Button	Press and hold for about 5 seconds to reset the configuration to its default parameters.
8	Mains Power Connector and Fuse	Plug in the power cord.
9	POWER Illuminated Power Switch	Turn the device on and off.

Step 3: Mount AFM-20DSP-LE

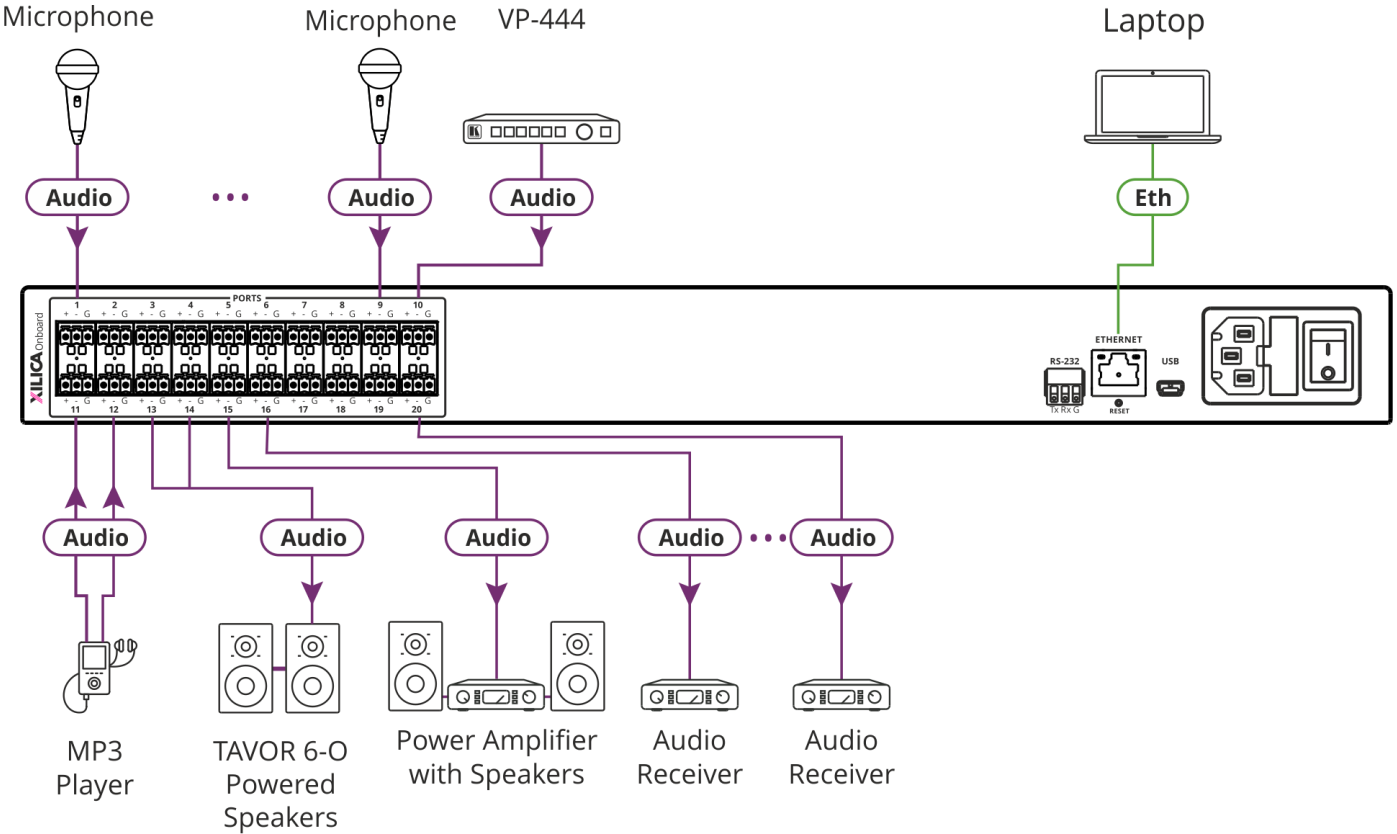
To rack mount the machine, attach both rack ears (by removing the screws from each side of the machine and replacing those screws through the rack ears) or place the machine on a table.



- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment should be maintained.

Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your AFM-20DSP-LE.



For optimum range and performance use the recommended Kramer cables available at www.kramerav.com/product/AFM-20DSP-LE. Using third-party cables may cause damage!

Step 5: Connect the power

Connect the power cord to AFM-20DSP-LE and plug it into the mains electricity.

Safety Instructions (See www.kramerav.com for updated safety information)

Caution:

- There are no operator serviceable parts inside the unit.

Warning:

- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.
- Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
- To ensure continuous risk protection, replace fuses only according to the rating specified on the product label which located on the bottom of the unit.



Step 6: Operate the AFM-20DSP-LE

Operate AFM-20DSP-LE via:

- Embedded web pages via the Ethernet.
- RS-232 serial commands transmitted by a touch screen system, PC, or other serial controller.

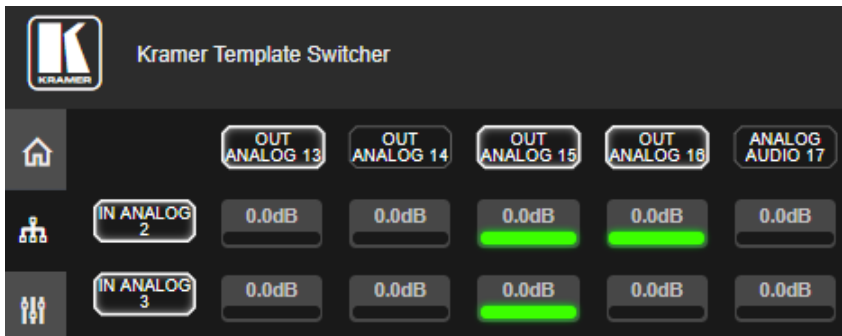
RS-232 Control / Protocol 3000	
Baud Rate:	115,200
Data Bits:	8
Stop Bits:	1
Parity:	None
Command Format:	ASCII
Example: (adjust analog audio output 1 to "-10dB"): #x-aud-ml out.analog_audio.1.audio.1,-10	
Default Ethernet Parameters	
IP Address:	192.168.1.39
Subnet mask:	255.255.0.0
Gateway:	192.168.0.1
UDP Port #:	50000
TCP Port #:	5000
Security User/Password	Admin/Admin
Factory Reset	
Recessed Button	Press and hold for 5 seconds to reset the configuration to its default parameters.
Protocol 3000:	"#factory" command.
Web Pages:	In the Settings page, click Reset.

Using the embedded web pages

To route an input to an output / outputs:

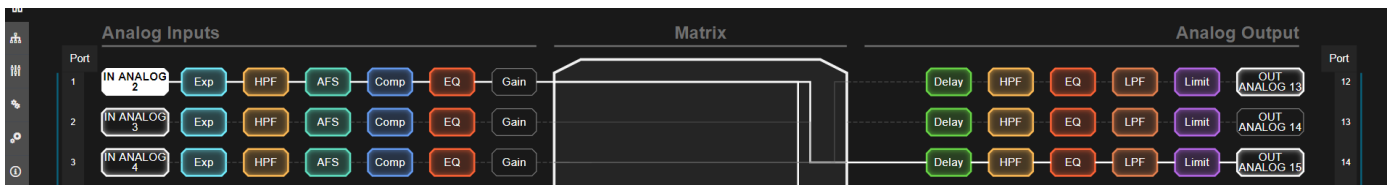
In the **DSP Matrix** page, click the lower area of cross-point buttons to connect an analog input signal to one or several analog outputs. The button lights green.

Click the dB area on a cross-point button to set the output volume.



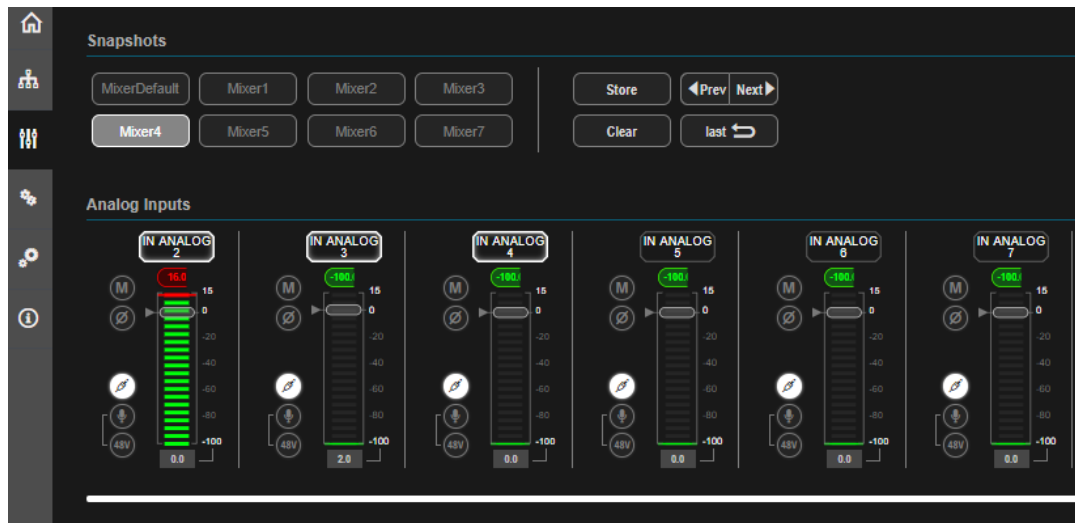
To process an input/output signal:

In the **DSP Main** page, process each input and output audio signal and view the routing state of the matrix.



To mix the audio signals:

In the **DSP Mixer** page, control the audio level (or mute) each input/output, define an analog input as line or mic, and so on. You can also store/recall snapshots of the current mixing setting.



To define the audio settings:

In the **Audio Settings** page, select the I/O port configuration, save and load system presets.

