ULTIMATE HDMI SWITCHING!
4 IN / 4 OUT 4K HDMI MATRIX SWITCHER

Overview

The **Absolute Acoustics® NDS-UM44** is a HDMI/HDMI matrix switcher with 4 inputs and 4 outputs capable of transmitting audio, video, and control signals from any source to any display. As an exclusive feature, UM44 extracts digital audio from each HDMI input, for direct connection with audio distribution systems.

With a range of exclusive technologies, **UM44** offers advanced features for distributing HDMI signals, such as native support for UHD/4K resolutions, high definition audio formats, and compliance with the new HDCP 2.2 copy protection standard, making it perfect for deployment of multimedia distribution systems in residential or corporate environments. Additionally, all inputs and one output zone of **UM44** have HDMI audio breakout, extracting the digital audio contained in the HDMI signal into a pair of RCA connectors.

UM44 can be controlled manually via front panel buttons or remotely, by sending IR or RS232 codes. When connected to an Ethernet network, it can also be controlled over Telnet protocol, or through its web interface - which also works as an easy way to perform all settings. And further expanding the range of features, **UM44** can act as an automation hub, forwarding commands received on its control ports via HDMI-CEC to devices connected on each of its outputs.

UHD/4K ENABLED

Compatible with the new ultra-high definition sources and displays, sending signals with resolutions up to 2160@30 with YCbCr 4:4:4, or 2160@60 with 4:2:0 color format.
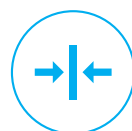
HDMI AUDIO BREAKOUT

All inputs and one output include a pair of RCA connectors for digital audio extraction, enabling direct connections to multi-room or professional audio distribution systems.
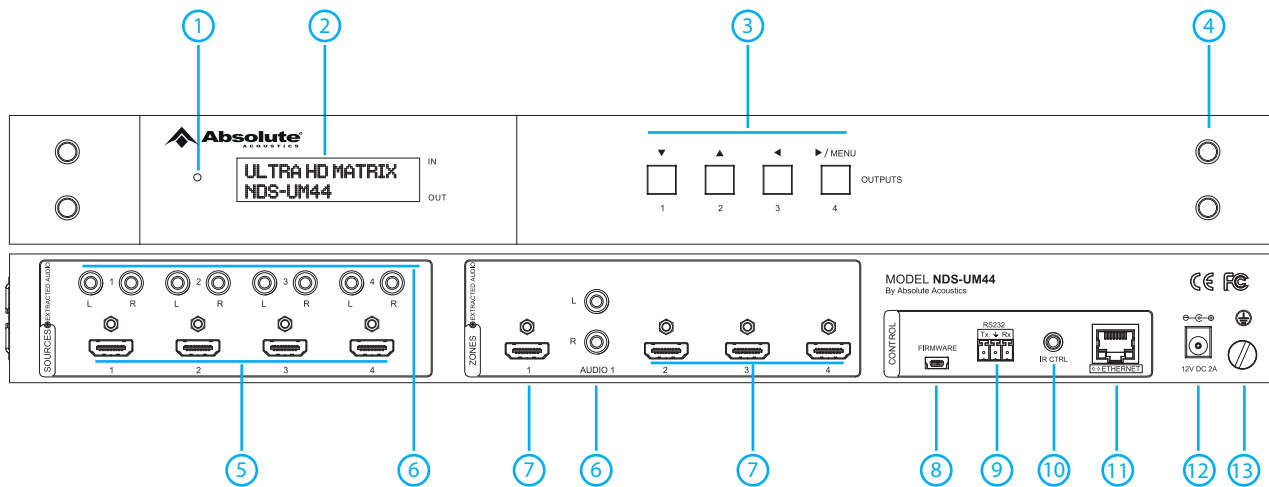
HDCP 2.2 COMPLIANT

Fully licensed and compatible with HDCP 2.2, the latest content protection specification, enabling the transmission of ultra-high definition signals directly from the source.

HDMI-CEC BRIDGE

Control compatible displays connected to the outputs using HDMI-CEC protocol and save control ports of your automation system.

UNIVERSAL WEB INTERFACE

A stunning web interface provides a simple way to perform all the system settings for the integrator, while also works as control interface for system users.

COMPACT SIZE

All this technology is embedded in a compact 1U chassis, which allows easy installation in furniture, for domestic applications, or equipment racks in a corporate environment.

Absolute ACOUSTICS

1. Power status indicator
2. Status display
3. Operational controls
4. Openings for optional cover panel
5. HDMI input ports
6. Analog audio outputs
7. HDMI output ports

8. System service port
9. RS232 control port
10. IR control port
11. Ethernet port
12. DC power cable inlet
13. Chassis ground pin

Technical Specifications

SIGNAL BANDWIDTH: 10.2Gbps

HDMI COMPATIBILITY: CEC, EDID, HDCP 2.2

SUPPORTED RESOLUTIONS: 800x600, 1024x768, 1280x768, 1280x960, 1280x1024, 1600x1200, 1920x1080,1920x1200, 3840x2160, 4096x2160*

COLOR DEPTH: 8 - 12 bits/ch**

SUPPORTED AUDIO (HDMI): Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, Dolby Digital, DTS-X, DTS-HD Master Audio, DTS 5.1, 2 - 8Ch PCM 32-192kHz 16-24 bits

SUPPORTED AUDIO (ANALOG): 2Ch PCM 32-192kHz 16-24 bits

TRANSMISSION DISTANCE (HDMI): up to 32 ft (10m) @ 1080p or up to 16 ft (5m) @ 4K using standard HDMI passive cable

HDMI INPUTS: 4x HDMI Type A

HDMI OUTPUTS: 4x HDMI Type A

AUDIO OUTPUTS: 5x Analog Stereo RCA

CONTROL PORTS: 1x IR 3.5mm TRS, 1x RS232 3-pin Phoenix, 1x 10/100 Ethernet RJ45

SERVICE PORT: 1x USB Type A

POWER INLET: 1x 5.5mm "latch-locking"

OPERATING TEMPERATURE: 32° to 104° F (0° - 40°C)

DIMENSIONS: 17.2 x 1.75 x 9.25 in (437 x 44 x 235 mm)

WEIGHT: 3.9lb (1.77kg)

POWER SUPPLY: DC 12V 2A

CONSUMPTION: 14W (max)
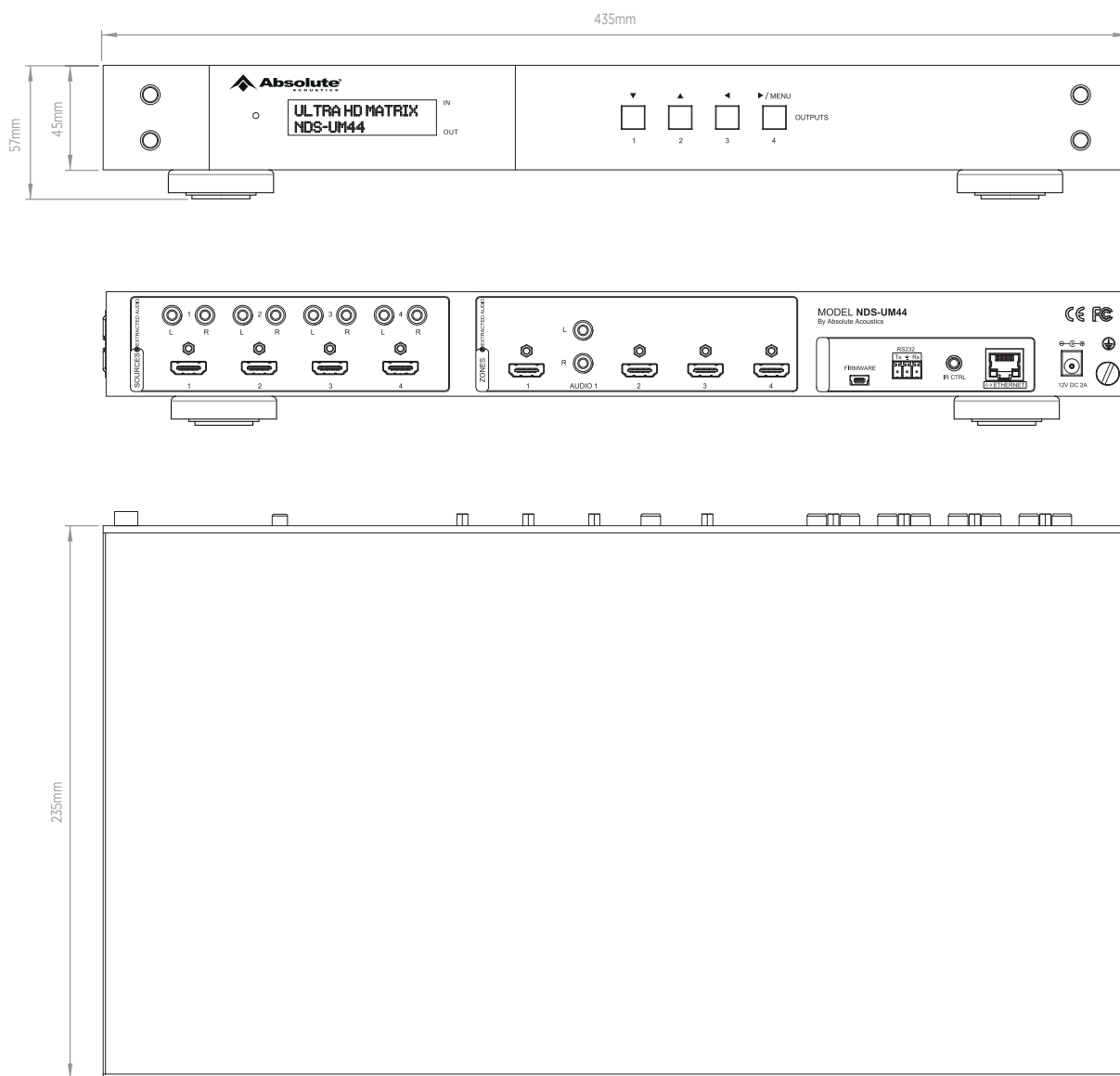
CERTIFICATIONS: UL, FCC, CE, RoHs

WARRANTY: 2 years

* Resolutions of 3840x2160 and 4096x2160 are only available with the YCbCr 4:2:0 color format.
** Resolutions of 3840x2160 and 4096x2160 are only available with 8-bits Color Depth.

ULTRA-HD MATRIX SWITCHERS COMPARISON TABLE

	UM44	UM88	UHM44	UHM88
INPUTS/SOURCES	4 HDMI	8 HDMI	4 HDMI	8 HDMI
OUTPUTS/ZONES	4 HDMI	8 HDMI	1 HDMI / 3 HDBaseT	2 HDMI / 6 HDBaseT
MULTI RANGE HDBASET OUTPUTS	—	—	1	2
PoC on HDBASET OUTPUTS	—	—	YES	YES
SOURCE AUDIO EXTRACTION	4	8	-	-
ZONE AUDIO EXTRACTION	1	2	4	8
HDCP 2.2	YES	YES	YES	YES
4K / UHD (10.2Gbps)	YES	YES	YES	YES
CEC BRIDGE	IP & RS232	IP & RS232	IP & RS232	IP & RS232
SERIAL BRIDGE	NO	NO	YES	YES
ADVANCED WEB GUI	YES	YES	YES	YES
CONTROL PORTS COVER PANEL	IP, RS232 & IR	IP, RS232 & IR	IP, RS232 & IR	IP, RS232 & IR
MAGNETIC COVER (OPTIONAL)	YES / MCP1	YES / MCP1	YES / MCP1	YES / MCP2
COMPATIBLE EXTENDERS HDMI OUTPUTS HDBASET OUTPUTS	470, 570, 870 or 970HD Kits	470, 570, 870 or 970HD Kits	470, 570, 870 or 970HD Kits 572RX or 872RX	470, 570, 870 or 970HD Kits 572RX or 872RX
RACK SIZE	1U	1U	1U	2U
DIMENSIONS	17.12 x 1.75 x 9.25in (435 x 44.5 x 235mm)	17.12 x 1.75 x 9.25in (435 x 44.5 x 235mm)	17.12 x 1.75 x 9.25in (435 x 44.5 x 235mm)	17.12 x 3.5 x 14.96in (435 x 89 x 380mm)
WEIGHT	3.9lb (1.77kg)	4.32lb (1.96kg)	4.41lb (2.0kg)	11.9lb (5.4kg)

ULTRA HD MATRIX
NDS-UM44

IN
OUT

/ MENU
OUTPUTS

MODEL **NDS-UM44**
By Absolute Acoustics

Notes

LEGAL NOTICE

1. All brand names, product names or trademarks are property of their respective owners.

2. Some trademarks may be mentioned to refer to the entities that own such marks, names or their products.

3. Absolute Acoustics has no interest in the ownership of trademarks and trade names.

4. Absolute Acoustics is not responsible for errors in typography or photography and, in order to improve its products, reserves the right to change specifications without notice.

All equipment should be disconnected from the power supply prior to installation to avoid damage to the unit.