

Professional Universal Matrix switcher in 4x4 I/O configuration



Part No: 9131 0028

Highlight features

- Universal Matrix Switcher – accepts VGA, YUV, DVI and HDMI 1.3 signals on each input
- All-in-one design concept
- Separate audio and video matrix switching
- Analog audio and video A/D conversion
- Adjustable analog audio settings
- HDCP compliant

UMX4x4-Pro2, the all-round Universal Matrix Switcher, is the perfect solution for ever-changing environments such as small board rooms and classrooms. UMX (Universal Matrix) technology was developed by Lightware to support various analog and digital audio visual formats. VGA, YUV, digital DVI, HDMI 1.3 with HDCP, stereo analog and S/PDIF digital audio signals are all supported.

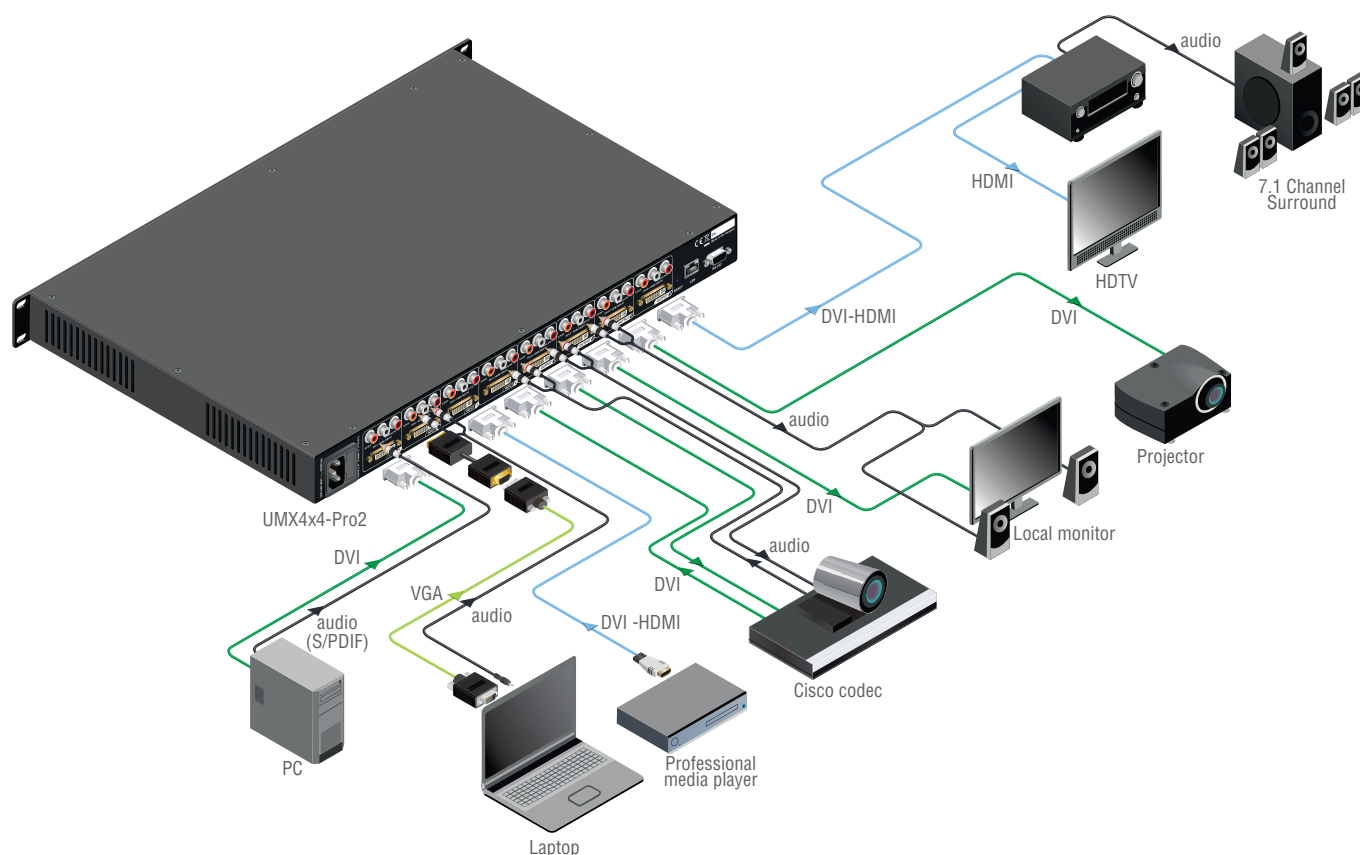
Each input port incorporates an individual EDID Manager, a video A/D converter and a digital/analog video switch. No frame delay occurs if an analog signal is digitized. Each port contains an auto sync function, but the picture parameters can also be fine-tuned manually. The built in Frame Detector and graphical signal analyzer helps make precise adjustments and our Pixel Accurate Reclocking technology provides exceptional signal regeneration capability. UMX4x4-Pro2 has the ability to input HDMI with embedded audio and DVI with HDCP encryption, VGA, component video and analog or digital audio. De-embedding audio from the incoming HDMI stream, re-embedding at output from a different audio source and even routing audio separately from video is easily handled with the UMX switcher.

With the additional features, such as RS-232 and IP control and a comprehensive software suite, the UMX4x4-Pro2 is one of our most powerful and adaptive matrix yet.



Web control provides user control of the system, including management, monitoring and controlling such as source and destination video and audio selection and advanced options of the video/audio signals. Commands are configured with a simple and intuitive graphical user interface even through your mobile device.

Typical application

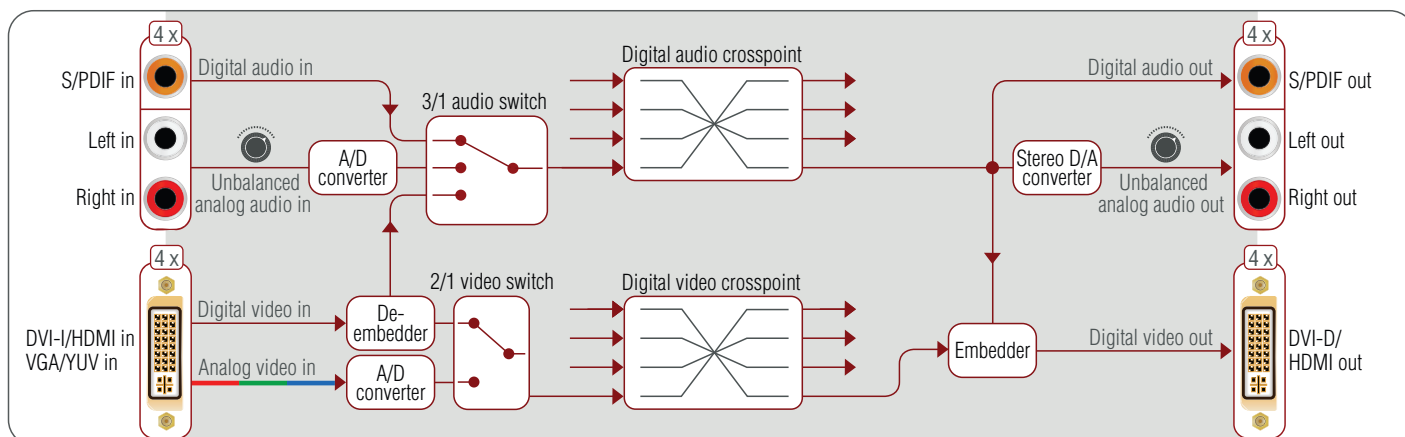


UMX4x4-Pro2 front view



UMX4x4-Pro2 rear view

Functional diagram



Applications

- Small classrooms
- Conference rooms, collaborative telepresence
- Control room
- Multiroom video
- Home cinema

Features

- Accepts VGA, YUV, DVI and HDMI 1.3 signals on each input
- Accepts analog stereo; 5.1 S/PDIF and 7.1 HDMI embedded audio signals on input ports
- Volume and gain audio control options
- Zero frame delay – on analog inputs as well
- Audio de-embedding from uncompressed HDMI signals
- Audio embedding on outputs
- All analog signals are converted to digital formats
- HDCP compliant
- RS-232 and IP control
- Advanced EDID Management

Supplied accesory



UMX VGA cable adapter

CAB-DVIA-VGA-02 (Part No: 1375 0084)

This DVI-I male to VGA female adapter is designed to break out the analog signals from the DVI-I connector and adapt them to a VGA connector.

Specification

Routing:	4x4 video and 4x4 audio - any input(s) to any output(s)
Resolution:	Up to 2048x1080 or 1920x1200 or 1080p
Input cable equalization:	20 m digital DVI or HDMI only
EDID memory:	100 EDID
Programmable EDID memory:	50 EDID
EDID support:	256 byte Extended EDID
HDCP compliant:	Yes
Front panel buttons:	Yes
Power:	100 - 240 V AC
Power consumption:	15.2 W (typ), 25.3 W (max)
Heat dissipation (BTU):	52 (typ), 86 (max)
Enclosure:	1U rack mount metal
Dimensions:	446(482)W x 302D x 43,9H mm
Weight:	5 Kg
Compliance:	CE
Warranty:	3 years

Analog audio

Gain:	0 .. 24 dB for inputs
Volume:	-78 .. 0 dBV for outputs

Connectors

Video Input:	4 x 29 pole DVI-I connector
Video Output:	4 x 29 pole DVI-D connector (digital only)
Audio Input:	4 x S/PDIF (Digital); 4 x L+R RCA (Analog Stereo)
Audio Output:	4 x S/PDIF (Digital); 4 x L+R RCA (Analog Stereo)
Ethernet:	RJ45
RS-232 or 422:	9-pole D-sub
Power:	IEC 230V

Supported audio formats

Embedded audio	S/PDIF out	Unbalanced analog out
Multichannel PCM (max 8 channel, up to 192 kHz)	Stereo PCM (up to 96 kHz)	Stereo PCM (up to 96 kHz)
Dolby Digital 2.1	Dolby Digital 2.1	x
Dolby Digital 5.1	Dolby Digital 5.1	x
Dolby Digital 7.1	Dolby Digital 7.1	x
DTS 2.1	DTS 2.1	x
DTS 5.1	DTS 5.1	x
DTS 7.1	DTS 7.1	x
Dolby TrueHD (HBR)	x	x
DTS-HD (HBR)	x	x
DTS-HD Master Audio (HBR)	x	x
All other HDMI specified standards	x	x