

J I - M U H 1 6 1 6 S - P R O

16x16 SEAMLESS MATRIX SWITCHER

Professional HDMI 16x16 seamless matrix switcher with 4K30 support, analog audio de-embedding, EDID management and TCP/IP / RS-232 control.

16x16 HDMI	SEAMLESS	4K@30Hz	HDMI 1.4	TCP/IP	RS-232
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01 OVERVIEW

The Jistron JI-MUH1616S-Pro is a professional 16x16 seamless HDMI matrix switcher with sixteen HDMI inputs and sixteen HDMI outputs. It supports HDMI 1.4 video up to 3840 x 2160 at 30 Hz with RGB/YCbCr color spaces, and provides sixteen analog audio outputs for HDMI audio de-embedding. The system also provides comprehensive EDID management together with front-panel, RS-232 and TCP/IP control for professional AV routing applications.

02 KEY FEATURES

- **16x16 HDMI matrix**

Sixteen HDMI inputs can be independently routed to sixteen HDMI outputs.
- **Seamless switching**

Designed for seamless source switching between routed outputs.
- **4K video support**

Supports HDMI 1.4 resolutions up to 3840 x 2160 at 30 Hz.
- **Analog audio de-embedding**

Sixteen 3.5 mm analog audio outputs support HDMI audio de-embedding.
- **EDID management**

Seven built-in EDIDs plus custom EDID and output-EDID learning are supported.
- **Multiple output resolutions**

Twelve selectable output resolutions are available.
- **CEC support**

The first input and first output channels support CEC control.
- **Flexible control**

Front panel, RS-232 and TCP/IP client control are supported.

03 ROUTING, EDID & CONTROL

SCENES	EDID	CEC	AUDIO	TCP/IP	RS-232
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04 MATRIX OPERATION & SYSTEM FUNCTIONS

1 FRONT-PANEL ROUTING

Illuminated input/output keys and LCD provide local matrix routing and status operation.

3 PRESET SCENES

Routing configurations can be stored and recalled as preset scenes.

5 EDID MANAGEMENT

Built-in, custom and learned output EDID data can be assigned to inputs.

7 OUTPUT SETTINGS

Client software supports output resolution, signal format, brightness, contrast and analog-audio settings.

2 TCP/IP CLIENT CONTROL

RJ45 network control supports the supplied client software and IP-based system management.

4 RS-232 CONTROL

Bi-directional RS-232 is provided for external control and peripheral integration.

6 AUDIO / VIDEO SEPARATION

The source documentation specifies independent analog audio de-embedding for sixteen output channels.

8 STANDBY & LOCK

Standby mode and front-panel button lock/unlock functions are supported.

05 VIDEO PERFORMANCE & INTEGRATION

■ 4K30 compatibility

Supports HDMI 1.4 and video resolutions up to 3840 x 2160 at 30 Hz with 4:4:4 color sampling.

■ HDMI / DVI compatibility

Inputs are compatible with HDMI and DVI source formats as specified in the manual.

■ Continuous hot plugging

The manual specifies continuous hot plugging support for HDMI ports.

■ Power-off memory

Routing and system status can be retained through the documented power-off memory function.

06 TECHNICAL SPECIFICATIONS

VIDEO	
HDMI inputs	16 x HDMI
Input connectors	16 x HDMI Type-A female
Input resolution	Up to 4K@30Hz 4:4:4
HDMI outputs	16 x HDMI
Output connectors	16 x HDMI Type-A female
Output resolution	Up to 4K@30Hz 4:4:4
HDMI version	HDMI 1.4
HDCP version	HDCP 1.3

ANALOG AUDIO OUTPUT	
Audio outputs	16 x analog audio
Output connectors	16 x 3.5 mm audio jack
Audio format	PCM

CONTROL	
Control	1 x RS-232 IN · 2 x RS-232 OUT · 1 x TCP/IP · front-panel buttons
Control ports	DB9 serial ports · RJ45 network port · illuminated front-panel buttons

06 TECHNICAL SPECIFICATIONS - CONTINUED

GENERAL	
Transmission distance	4K 30 Hz: <= 5 m · 1080p: < 15 m
Operating temperature	0 °C to +40 °C
Storage temperature	-10 °C to +50 °C
Relative humidity	10% - 90%
External power supply	DC 12 V, 5 A
Dimensions (W x H x D)	483 x 66 x 236 mm
Net weight	3.55 kg

SYSTEM FEATURES	
Seamless switching	Supported
Output resolutions	12 selectable resolutions
EDID	7 built-in + custom + output-EDID learning
CEC	Supported on first input and first output
Power-off memory	Supported
Standby mode	Supported

07 ORDERING INFORMATION

MODEL	DESCRIPTION	NOTES
J1-MUH1616S-Pro	16x16 Seamless HDMI Matrix Switcher with 4K30, analog audio de-embedding, EDID, TCP/IP and RS-232 control	16 HDMI IN / 16 HDMI OUT

Specifications on this datasheet are derived from the J1-MUH1616S-Pro user manual. Detailed operating commands, login credentials and procedural instructions are omitted.

08 ABOUT JISTRON

Jistron is a European audio-visual brand headquartered in Tallinn, Estonia. It supplies conference systems, signal management and installed audio-visual solutions for boardrooms, chambers and command environments; products are manufactured at audited partner facilities.