PRODUCTS › MATRICES

TC-PMX-402

4×2 4K60 HDMI Matrix Switcher

Four HDMI sources to two displays, each output chosen and scaled on its own



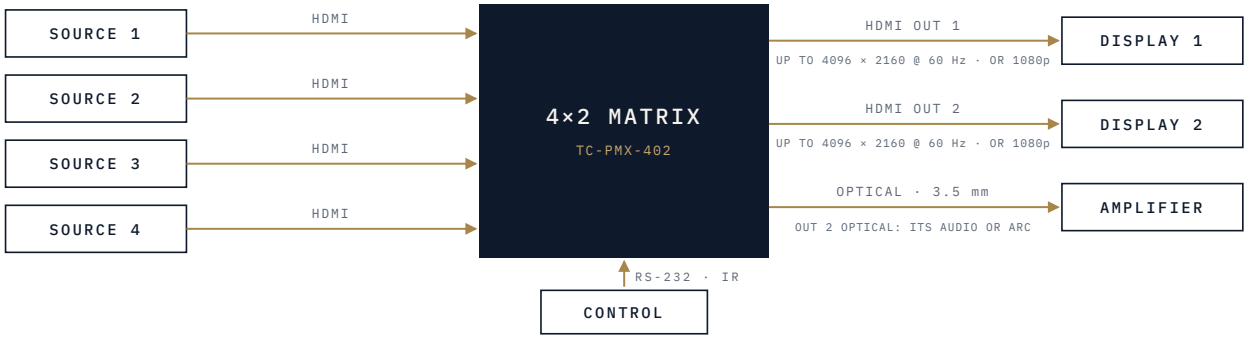
2 × HDMI	4K60 4:4:4	HDR10	1080p
outputs · any of four sources on each	HDMI 2.0 · 18 Gbps · HDCP 2.2	HLG · Dolby Vision · up to 12-bit colour	each output downscales 4K on its own

TC-PMX-402 routes any of four HDMI sources to either of two displays at up to 4096 × 2160 @ 60 Hz 4:4:4, over HDMI 2.0 at 18 Gbps with HDCP 2.2. Each output downscales 4K to 1080p on its own, so one 4K source can feed a 4K display and an HD display at the same time. HDR10, HLG and Dolby Vision pass through, and deep colour up to 12-bit, 3D and lip sync are supported.

Output 1 de-embeds its audio to a 3.5 mm analogue stereo output and an optical (S/PDIF) output; output 2's optical output carries either its own audio or the display's ARC audio, chosen by a switch. The HDMI outputs carry LPCM up to 7.1, Dolby TrueHD and Atmos, and DTS-HD Master Audio and DTS:X. Control is from the front-panel buttons, the IR remote, which also switches CEC displays on and off, or RS-232 on a 3-pin terminal. Passive HDMI cables reach 5 m at 4K60 4:4:4 and 10 m at 4K30 4:4:4 or 4K60 4:2:0.

01 KEY CAPABILITIES

- Any of four HDMI sources to either of two displays
- Analogue and optical audio de-embedded from output 1
- Up to 12-bit deep colour, 3D, lip sync and lossless HD audio passed through
- Each output scales 4K down to 1080p on its own
- Optical audio from output 2, or the display's ARC audio
- Control from the front panel, IR remote or RS-232



SIGNAL PATH · ANY SOURCE TO EITHER DISPLAY; AUDIO TO AN AMPLIFIER FROM OUTPUT 1 OR OUTPUT 2

02 VIDEO

Signal standard	HDMI 2.0
HDCP	HDCP 2.2
Maximum resolution	Up to 4096 × 2160 @ 60 Hz, 4:4:4 (4K UHD and DCI)
Scaling	Each output downscales 4K → 1080p independently
Bandwidth	18 Gbps
Colour depth	Up to 12-bit deep colour; 3D; lip sync
HDR	HDR10, HLG and Dolby Vision

03 AUDIO

HDMI audio formats	LPCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X
Audio de-embedding	Output 1: analogue 3.5 mm stereo + optical (S/PDIF) · Output 2: optical (S/PDIF)
Audio return	Output 2's optical output carries either output-2 audio or the display's ARC audio (DIP switch)
Other audio formats	Analogue: PCM 2.0 · Optical: PCM 2.0/5.1, Dolby Digital and DTS up to 5.1

04 TRANSPORT & DISTANCE

Passive cable reach	Passive HDMI: 5 m at 4K60 4:4:4 · 10 m at 4K30 4:4:4 or 4K60 4:2:0 · 1080p60: 15 m in, 10 m out

05 CONNECTIVITY

Inputs	4 × HDMI
Outputs	2 × HDMI · 1 × 3.5 mm analogue stereo · 2 × optical (S/PDIF)
Control ports	RS-232 on a 3-pin 3.5 mm terminal

06 CONTROL

Control methods	RS-232, IR remote, front-panel buttons
IR	IR remote selects each output's source and switches CEC displays on and off; two IR system codes

07 ELECTRICAL & PHYSICAL

Power supply	5 V DC, 1 A
Power consumption	3.3 W max
Dimensions (W × D × H)	220 × 100.2 × 21 mm (without brackets)
Weight	540 g
Mounting	Two mounting brackets (supplied)
Operating temperature	0 to 45 °C
Storage temperature	−20 to 70 °C
Humidity	10–90 %, non-condensing
ESD protection	±8 kV air · ±4 kV contact (human-body model)

08 COMPLIANCE & ASSURANCE

Certification statement	Designed for global compliance — CE, FCC, RoHS, and regional certifications, as applicable.
Warranty	3 years

09 IN THE BOX

In the box	Matrix · 5 V DC adapter · IR remote · 3-pin terminal plug · 2 mounting brackets with screws

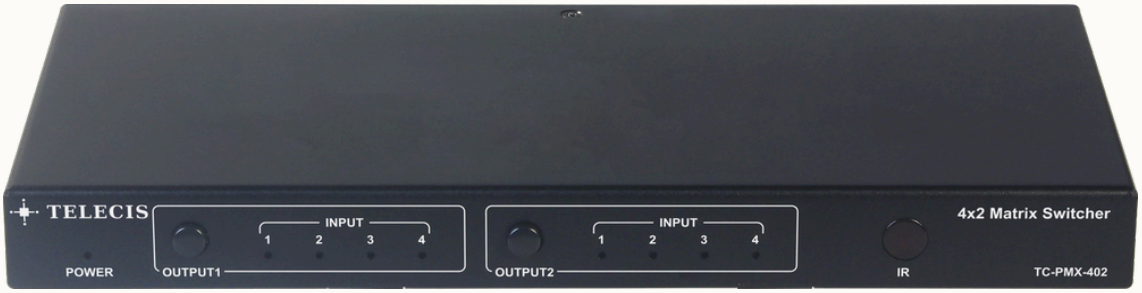
10 ORDERING

Order code	**TC-PMX-402**

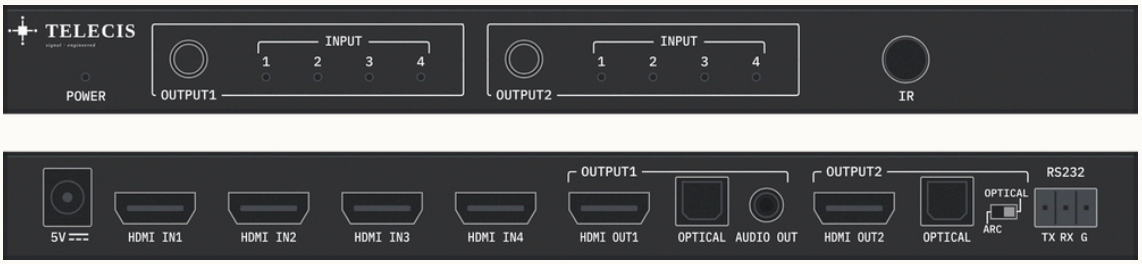
PRODUCT PAGE

telecis.com/products/matrices/tc-pmx-402/

VIEWS

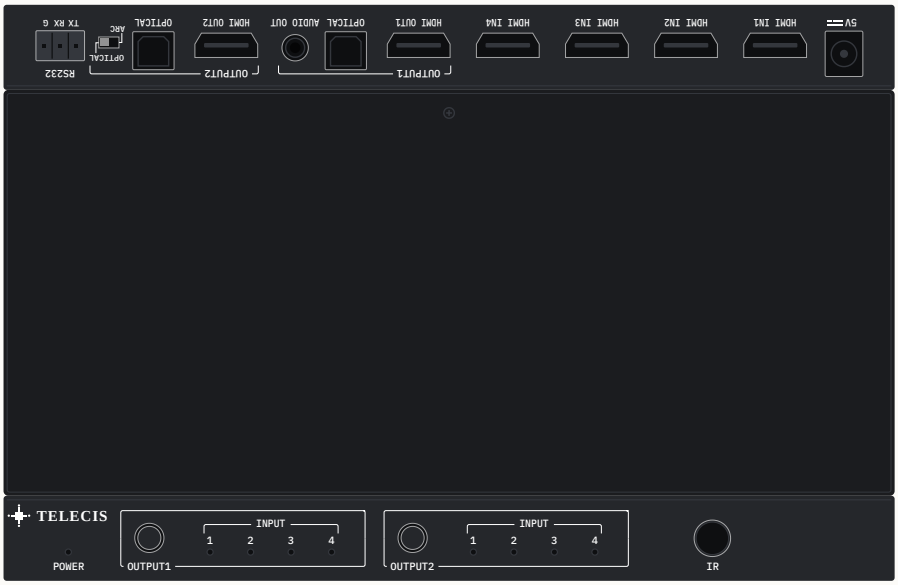


FRONT



FRONT AND REAR PANELS · FROM THE PRODUCTION DRAWING

DRAWING



MATRIX

Product images are for illustration. Specifications are subject to change without notice. HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. Other product names, brand names, and trademarks referenced are the property of their respective owners. Reference to such marks does not imply endorsement or affiliation.

signal · engineered.