WP-DVI-HDCP-TP and WP-HDMI-TP series

visual engineering LIGHTWARE

CAT5, CAT6 and CAT7 active twisted pair wall plate extenders

The Lightware WP-DVI-HDCP-TP and WP-HDMI-TP 50 series extenders can transmit HDMI or DVI-D signals over two CAT5, CAT6 or CAT7 cables. They fully support HDMI 1.3a signals with or without HDCP encryption. The WP-DVI-HDCP-TP series extenders feature screw-locking DVI connectors, while keeping all the features of HDMI 1.3a, including embedded audio. This also ensures reliable operation in professional environments compared to easily unpluggable HDMI connectors.

The extenders can work with any Lightware twisted pair extender and modular matrix board that is able to send power to the wall plate.

Supporting the latest HDMI 1.3 standard and 3D HDMI signals, these products can be seamlessly connected to the latest Blu-Ray players, set top boxes, AV receivers and even Apple TV. Inputs are equalized on all receivers, allowing for up to 65 m long cable extension to be achieved with CAT7 S/FTP cable on 1920 x 1080p @ 60 Hz resolution. Accessible distances depend on the used cable quality and signal resolution.

The WP-DVI-HDCP-TP and WP-HDMI-TP 50 series are available in two colors (silver and black) and in two different sizes: EU and UK version.
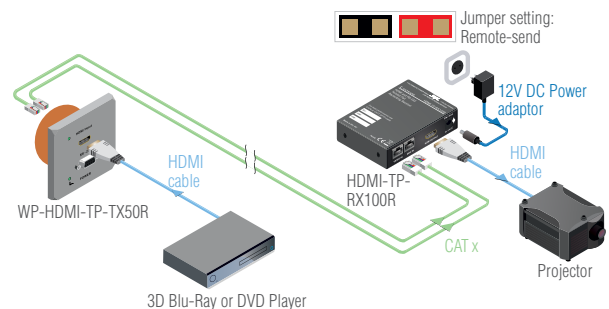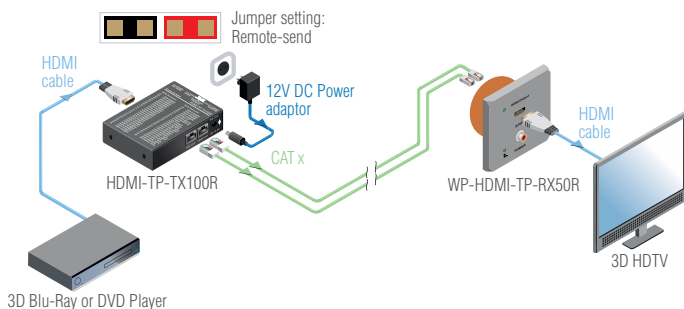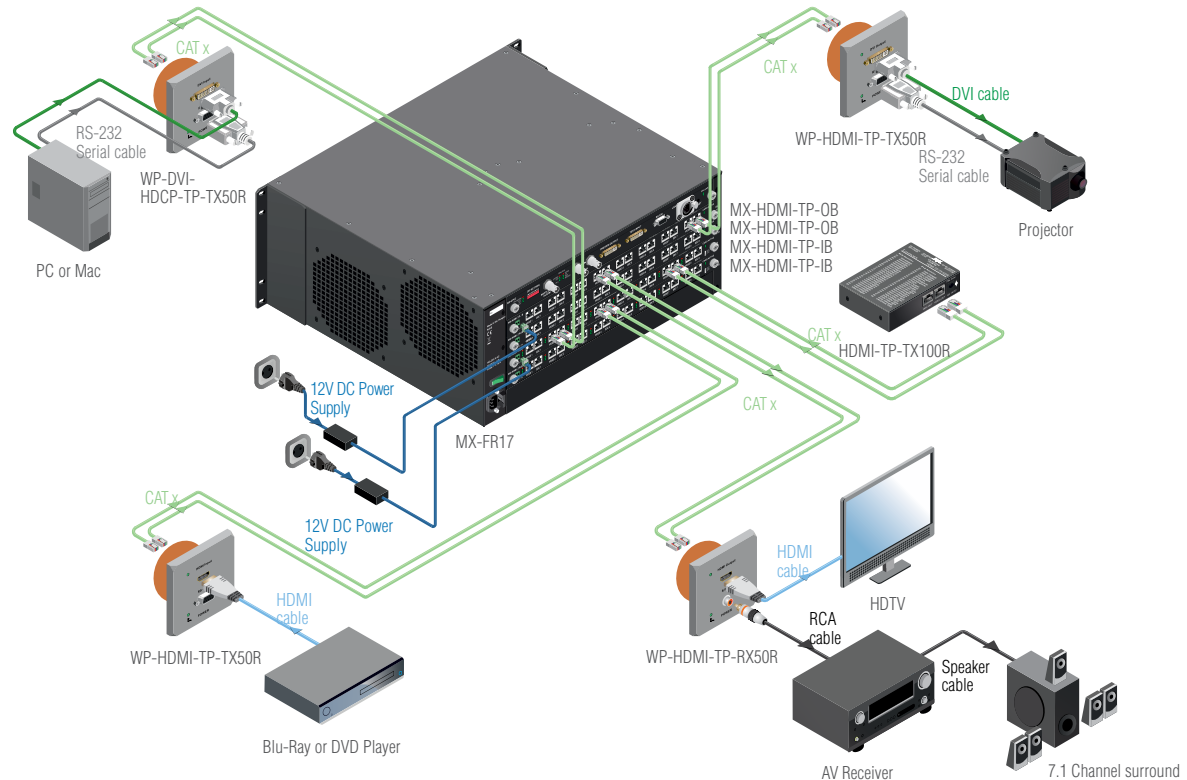
Part No: See below

3D | HDCP | 50M @1080p 60Hz

Highlight features

- Automatic cable equalizing
- RS-232 pass through
- Supports Dolby TrueHD and DTS-HD
  Master Audio 7.1 formats on outputs with MX-HDMI-TP-OB board
- Solid, one piece aluminum panel in two colors: silver and black

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Stand alone application

Jumper setting: Remote-send

HDMI cable — HDMI-TP-TX100R — 12V DC Power adaptor — CAT x — WP-HDMI-TP-RX50R — HDMI cable — 3D HDTV

3D Blu-Ray or DVD Player

Jumper setting: Remote-send

WP-HDMI-TP-TX50R — HDMI cable — CAT x — HDMI-TP-RX100R — 12V DC Power adaptor — HDMI cable — Projector

3D Blu-Ray or DVD Player

WP-DVI-HDCP-TP and WP-HDMI-TP series

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Applications

- Executive boardrooms
- Conference rooms, collaborative telepresence
- Multiroom video and audio control
- Home theatre systems

Features

- Extends 3D HDMI, HDCP 1.1 and DVI 1.0 signals
- Supports Dolby TrueHD and DTS-HD Master Audio 7.1 formats
- 1920 x 1200 or 2048 x 1080 maximal resolutions (with 3D support)
- Cross compatibility with any Lightware twisted pair device (if the device can send power)
- Automatic adaptive cable equalization adjustment
- HDCP compliant
- Uncompressed video/audio up to 6.75 Gbps
- Available colors: silver (–S) and black (–K)
- Available dimensions: EU and UK standard versions
- Remote power source
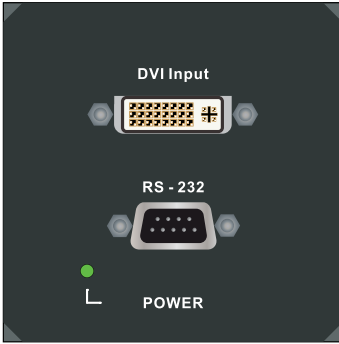- Easy, universal mounting

Specifications

Data rate:	6.75 Gbps (2.25 Gbps per color)
Resolution:	640x480 to 1920x1200 or 2048x1080 deep color (3D)
EDID memory:	Pass through
EDID emulation:	None (transparent)
HDCP pass through:	Yes
TP cable equalization:	0-40dB automatic
LED indicators:	Power, signal detect on RX device
Front panel control:	None
RS-232 pass through:	Yes
Power:	12 V, powered from remote device through TP cables
Power consumption (TX):	1 W
Power consumption (RX):	1,5 W
Dimensions (EU version):	79 W x 9 D x 79 H mm
Dimensions (UK version):	85 W x 9 D x 85 H mm
Weight (EU version):	145 g / product
Weight (UK version):	155 g / product
Compliance:	CE
Warranty:	3 years

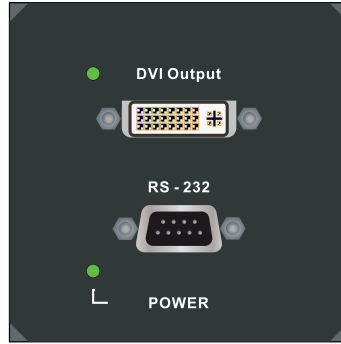## Connectors

Video:	HDMI or 29-pole DVI-I (digital only)
RS-232:	9-pole standard D-sub
Digital S/PDIF audio:	RCA
TP connectors:	2 x RJ45

WP-DVI-HDCP-TP and WP-HDMI-TP series
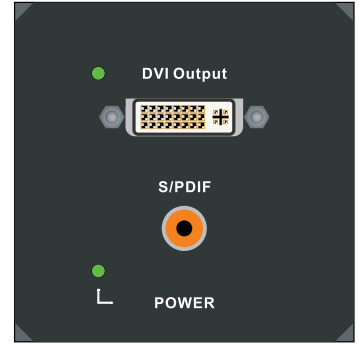
Transmitter and receiver front view

WP-DVI-HDCP-TP-TX50R

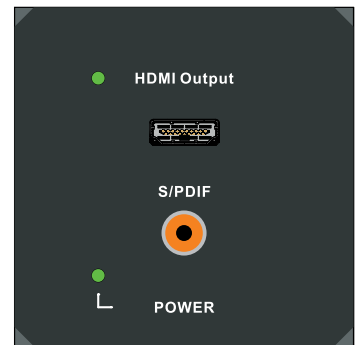WP-DVI-HDCP-TP-RX50R

WP-DVI-HDCP-TP-RX50A
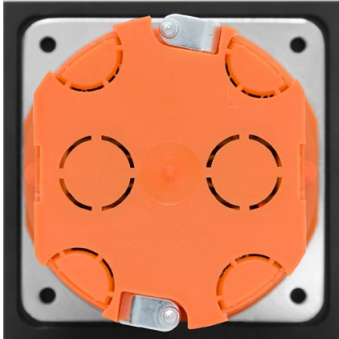

WP-HDMI-TP-TX50R

WP-HDMI-TP-RX50R

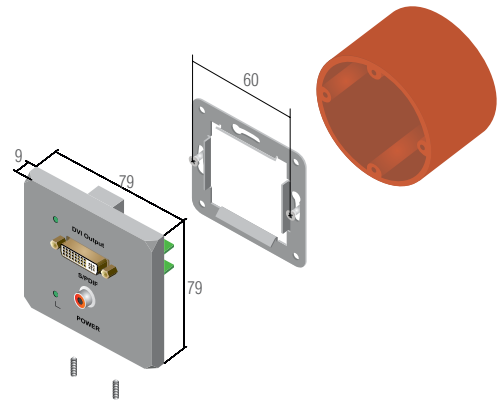
WP-HDMI-TP-RX50A

Wall plates EU version

Wall plate rear view

Wall plate side view
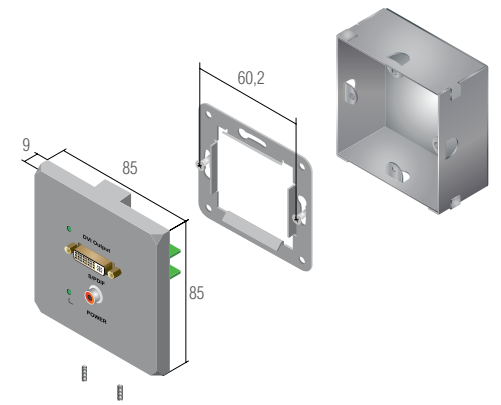

Dismounted diagram Dimensions shown in millimeters.

Wall plates UK version

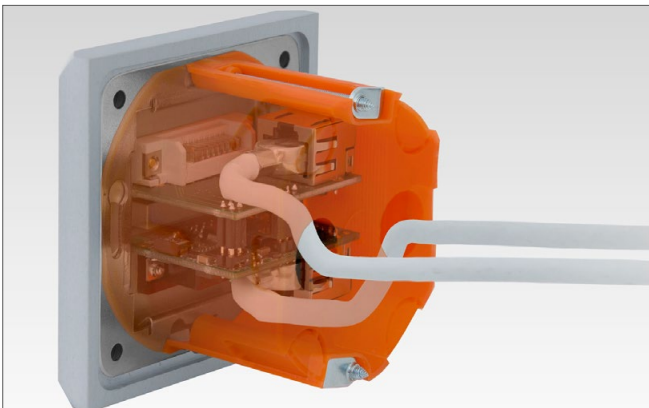Wall plate rear view

Wall plate side view

Dismounted diagram Dimensions shown in millimeters.

WP-DVI-HDCP-TP and WP-HDMI-TP series

Maximum extension distances

Resolution	TMDS Freq	CAT5e UTP	CAT5e FTP	CAT6 UTP	CAT6 FTP	CAT6 S/FTP	CAT7 S/FTP
640 x 480	25,2 MHz	60 m	60 m	70 m	70 m	80 m	80 m
800 x 600	40,0 MHz	60 m	60 m	65 m	65 m	75 m	75 m
1024 x 768	65,0 MHz	50 m	50 m	60 m	65 m	75 m	75 m
1280 x 720p	74,4 MHz	45 m	50 m	60 m	60 m	75 m	75 m
1920 x 1080i	74,4 MHz	45 m	50 m	60 m	60 m	75 m	75 m
1280 x 1024	108,2 MHz	30 m	40 m	55 m	60 m	65 m	65 m
1400 x 1050	122,1 MHz	20 m	30 m	50 m	60 m	65 m	65 m
1920 x 1080p	149,1 MHz	NR	NR	40 m	50 m	55 m	55 m
1920 x 1200	153,4 MHz	NR	NR	40 m	50 m	55 m	55 m
1600 x 1200	162,4 MHz	NR	NR	35 m	40 m	50 m	50 m
1920 x 1080p 30 bit	186,3 MHz	NR	NR	NR	NR	25 m	25 m
1920 x 1080p 36 bit	223,6 MHz	NR	NR	NR	NR	10 m	15 m

NR: Not recommended

Rear view with CAT cables

Mounted in wooden panel

Compatible products:

- Transmitters:
  DVI-HDCP-TP-TX50
  DVI-HDCP-TP-TX100R
  HDMI-TP-TX50
  HDMI-TP-TX100R
  HDMI-TP-TX200R
  UMX-TP-TX100R
  MX-DVI-TP-IB+
  MX-HDMI-TP-OB
  MXD-HDMI-TP-OB

- Receivers:
  DVI-HDCP-TP-RX50
  DVI-HDCP-TP-RX100R
  HDMI-TP-RX50
  HDMI-TP-RX100R
  HDMI-TP-RX100RA
  HDMI-TP-RX200R
  MX-DVI-TP-OB+
  MX-HDMI-TP-IB
  MXD-HDMI-TP-IB

WP-DVI-HDCP-TP and WP-HDMI-TP series

Available products:

Version		Product name	Description	Part No
DVI connector	EU version	WP-DVI-HDCP-TP-TX50R-EU-K	DVI + RS232 wallplate transmitter for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Black color.	9152 0018
		WP-DVI-HDCP-TP-RX50R-EU-K	DVI + RS232 wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Black color.	9152 0019
		WP-DVI-HDCP-TP-TX50R-EU-S	DVI + RS232 wallplate transmitter for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Silver color.	9152 0020
		WP-DVI-HDCP-TP-RX50R-EU-S	DVI + RS232 wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Silver color.	9152 0021
		WP-DVI-HDCP-TP-RX50A-EU-K	DVI + S/PDIF audio wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Black color.	9152 0022
		WP-DVI-HDCP-TP-RX50A-EU-S	DVI + S/PDIF audio wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Silver color.	9152 0023
	UK version	WP-DVI-HDCP-TP-TX50R-UK-K	DVI + RS232 wallplate transmitter for 2x CAT cables. HDCP and HDMI and 3D compliant. UK aluminum panel in Matt - Black color.	9152 0036
		WP-DVI-HDCP-TP-RX50R-UK-K	DVI + RS232 wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. UK aluminum panel in Matt - Black color.	9152 0037
		WP-DVI-HDCP-TP-TX50R-UK-S	DVI + RS232 wallplate transmitter for 2x CAT cables. HDCP and HDMI and 3D compliant. UK aluminum panel in Matt - Silver color.	9152 0038
		WP-DVI-HDCP-TP-RX50R-UK-S	DVI + RS232 wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. UK aluminum panel in Matt - Silver color.	9152 0039
		WP-DVI-HDCP-TP-RX50A-UK-K	DVI + S/PDIF audio wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. UK aluminum panel in Matt - Black color.	9152 0040
		WP-DVI-HDCP-TP-RX50A-UK-S	DVI + S/PDIF audio wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. UK aluminum panel in Matt - Silver color.	9152 0041
HDMI connector	EU version	WP-HDMI-TP-TX50R-EU-K	HDMI + RS232 wallplate transmitter for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Black color.	9152 0030
		WP-HDMI-TP-RX50R-EU-K	HDMI + RS232 wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Black color.	9152 0031
		WP-HDMI-TP-TX50R-EU-S	HDMI + RS232 wallplate transmitter for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Silver color.	9152 0032
		WP-HDMI-TP-RX50R-EU-S	HDMI + RS232 wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. EU aluminum panel in Matt - Silver color.	9152 0033
		WP-HDMI-TP-RX50A-EU-K	HDMI+S/PDIF audio wallplate receiver for 2x CATcables.HDCP and HDMI and 3D compliant. Works only with MX-HDMI-TP-OB and MXD-HDMI-TP-OB. EU aluminum panel in Matt - Black color.	9152 0034
		WP-HDMI-TP-RX50A-EU-S	HDMI+S/PDIF audio wallplate receiver for 2x CATcables.HDCP and HDMI and 3Dcompliant. Works only with MX-HDMI-TP-OB and MXD-HDMI-TP-OB. EU aluminum panel in Matt - Silver color.	9152 0035
	UK version	WP-HDMI-TP-TX50R-UK-K	HDMI + RS232 wallplate transmitter for 2x CAT cables. HDCP and HDMI and 3D compliant. UK aluminum panel in Matt - Black color.	9152 0042
		WP-HDMI-TP-RX50R-UK-K	HDMI + RS232 wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant.UK aluminum panel in Matt - Black color.	9152 0043
		WP-HDMI-TP-TX50R-UK-S	HDMI + RS232 wallplate transmitter for 2x CAT cables. HDCP and HDMI and 3D compliant. UK aluminum panel in Matt - Silver color.	9152 0044
		WP-HDMI-TP-RX50R-UK-S	HDMI + RS232 wallplate receiver for 2x CAT cables. HDCP and HDMI and 3D compliant. UK aluminum panel in Matt - Silver color.	9152 0045
		WP-HDMI-TP-RX50A-UK-K	HDMI+S/PDIF audio wallplate receiver for 2x CAT cables.HDCP and HDMI and 3Dcompliant. Works only with MX-HDMI-TP-OB and MXD-HDMI-TP-OB. UK aluminum panel in Matt - Black color.	9152 0046
		WP-HDMI-TP-RX50A-UK-S	HDMI+S/PDIF audio wallplate receiver for 2x CAT cables.HDCP and HDMI and 3D compliant. Works only with MX-HDMI-TP-OB and MXD-HDMI-TP-OB. UK aluminum panel in Matt - Silver color.	9152 0047