

HDMI-3D-OPT-RX110DD

SKU 91510034

Multimode Single Fiber Extender pair

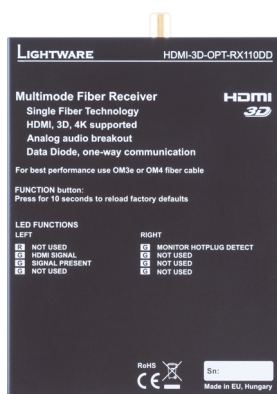
HDMI-3D-OPT-TX210DD and HDMI-3D-OPT-RX110DD extends HDMI 1.4, DVI 1.0 over one multimode fiber and transmits video signal with embedded audio to a distance of up to 2500 meters.



Front view



Rear view



Top view

Highlighted features

- Built-in data diode for enhanced security
- 1920x1080@120Hz/4:4:4, 4096x2160@30Hz/4:4:4 or 60Hz/4:2:0 maximum resolutions (300MHz)
- Adjustable analog audio settings (volume, gain, balance)
- Single Fiber Technology
- Audio embedding from 5-pole balanced Phoenix connector
- HDMI 1.4 and DVI 1.0 compliant
- Local monitor output on transmitter
- No signal latency, zero frame delay
- Supports all embedded audio formats (including PCM, Dolby Digital and DTS high bitrate audio)
- Extension distance up to 2500 meters (with OM3 fiber, 1920x1080p60)
- Pixel Accurate Reclocking
- Supports HDMI 4K signal formats (4K UHD @30Hz RGB 4:4:4 or @60Hz YUV 4:2:0, up to 9 Gbps)
- No video compression
- Built-in video test pattern generator
- Status LED for video signal detection
- Twist-and-lock DC power connector
- External universal power adaptor
- 5-pole Phoenix balanced analog audio connectors
- Mounting options for rack, furniture or truss

Details

HDMI-3D-OPT-RX110DD optical receiver provides extension of uncompressed Full-HD video and audio over one multimode fiber for up to 2500 m. The unit offers an analog audio output, and works at all standard AV resolutions.

HDMI-3D-OPT-DD series extenders offers data diode technology, which means that an optical fiber with a sender on one side and a receiver on the other ensures that data can only be transferred in a forward direction, and never in reverse. This means is no two-way transfer, preventing leakage and manipulation from taking place.



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Specifications

Max Video Data rate:	9 Gbps
Max Resolution:	Up to 4K UHD 3840x2160@30Hz, 1600x1200@60Hz, FullHD 1920x1080@60Hz
Video delay:	0 frames
EDID emulation:	yes, Advanced EDID Management
EDID memory:	Factory preset, 15 user programmable
EDID support:	256 byte Extended EDID v1.3
Front panel control:	Audio input select button, ShowMe button
Fiber:	50/125 SC Multimode (preferred) or 62.5/125 SC Multimode
Laser wavelengths:	6channel CWDM
High speed lanes:	778; 800; 825; 850 nm
Low speed lanes:	911; 980 nm
Laser class specification:	Class 3R
Transmitter output OMA***:	-6.25 dBm (worst case)
Receiver OMA*** sensitivity:	-14.25 dBm (worst case)
Optical loss budget:	8 dBm (worst case)
Analog audio input volume:	-95.625 dB ... 0 dB, in steps of 0.375 dB
Analog audio input level	max 4dBu
Power supply:	External power adaptor (100 to 240V AC, 50/60Hz) (5V DC, 1A)
Enclosure:	1 mm metal
Dimensions:	221 W x 100.4 D x 26 H mm
Compliance:	CE
Warranty:	3 years



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Specifications

Connectors	Power:	Twist-to-lock DC connector (2.5 / 5.5 mm)
	Video inputs:	1x HDMI connector
	Video outputs:	1x HDMI connector
	Fiber output:	SC receptacle
	Audio input:	1x 5-pole balanced Phoenix
	Serial port:	3-pole Phoenix
	USB:	mini USB-B

		OM1	OM2	OM3	OM4
		(62.5/125)	(50/125)	(50/125)	(50/125)
Maximum extension distances	1080p@60Hz 24 bpp	250 m	600 m	1200 m	2500 m
	1080p@60Hz 36 bpp	150 m	400 m	800 m	1300 m
	4096x2048@30Hz 24bpp	Not supported	350 m	700 m	1100 m

