

USER MANUAL

LM-DT200

HDMI Fiber Optic Transmission

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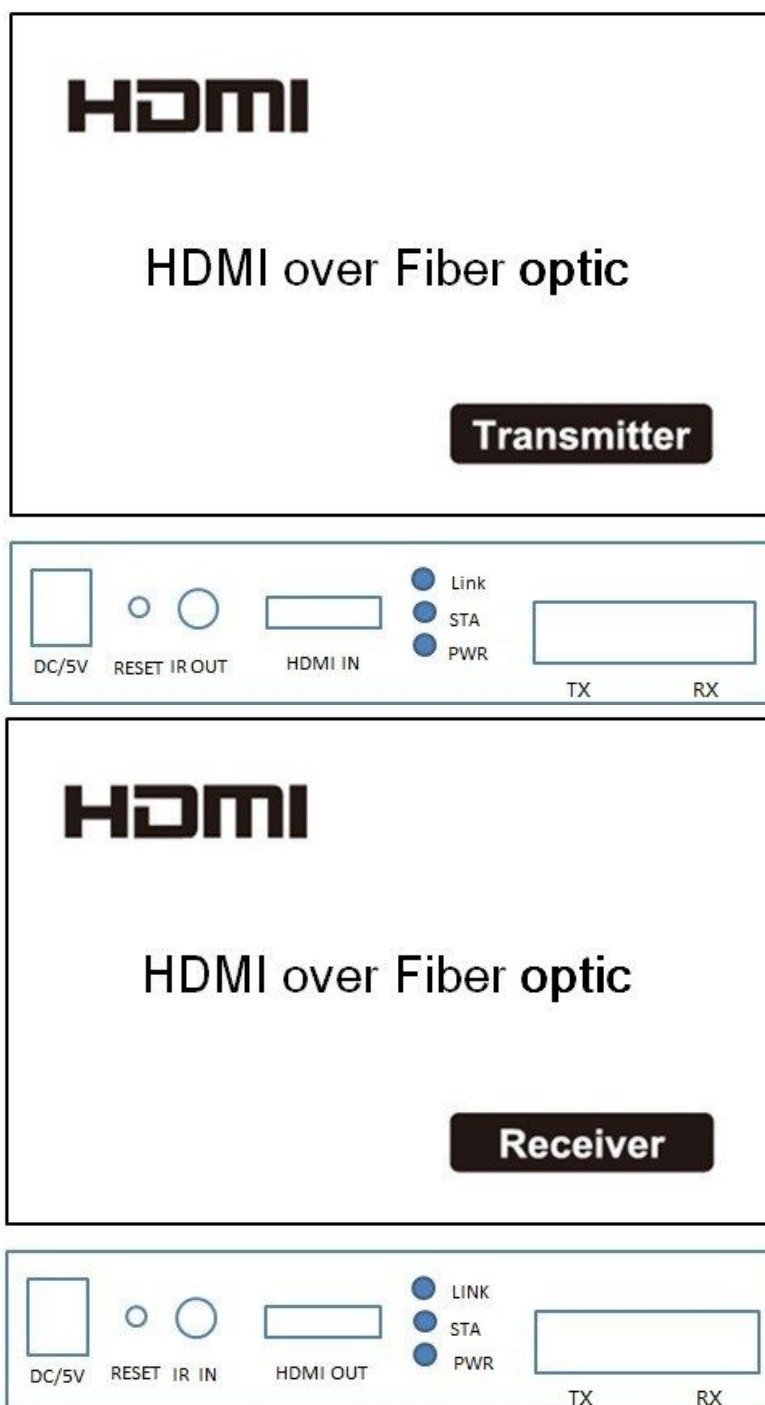
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1.0 Introduction

LM-DT200 is a perfect solution for transmitting HDMI audio and video through the fiber, the set of device includes a sender of DT200T and a receiver of DT200R. Our products transmit the HD video over optical fiber, which making the images clearer as well as the transmission more stable. At the same time, the product has the built-in IR remote control function.

2.0 Panel Description

2.1 Front Panel



	HDMI TX	HDMI RX
HDMI PORT	Video Input	Video Output
IR PORT	IR Input	IR Output
Fiber Port SC	Optic-fiber Data Transmission	
RESET KEY	Hold down the key for 8 seconds after power on, the model will restore default settings	

2.2 Indicator led.

Indicator led	Status	
FX	Light On	The transmission rate is correct
	Light Off	The transmission rate is not correct
Link act	Light On	Fiber Link up
	Flash	Packets of data are transmitting in the indicating port
Dpx	Light On	In the State of full-duplex
	Light Off	In the State of half-duplex

3.0 Function Specification

- > HDMI 1.3/HDCP1.1 & 1.2
- > Both Optic-fiber transmission and Ethernet Transmission
- > Support point-to-point mode, one point-to-many mode and cascaded transmission mode.
- > built-in IR remote control function, you can control the set-top box at the receiving site using the IR remote control.
- > Pure hardware design, just plug and play, no need to install extra software.

Video Parameter	
Video Resolution	640X480 @ 60fps 800X600 @ 60fps
	1024X600 @ 60fps 1024X768 @ 60fps
	1152X864 @ 60fps 1280X600 @ 60fps
	1280X720@ 60fps 1280X768@ 60fps
	1280X800@ 60fps 1280X960@ 60fps
	1280X1024@ 60fps 1440X1050@ 60fps
	1440x900 @ 60fps 1600x900 @ 60fps
	1660x1200 @ 60fps 1680x1050 @ 60fps
	1920x1080 @ 60fps 1920 x1200 @ 60fps
Audio	32kHz, 44.1kHz and 48kHz
Infrared Support	38KHz; NEC code
HDMI Version	HDMI 1.3
HDCP Version	HDCP 1.2

Other Parameters	
Power input	AC input: 100V - 240V (50 - 60Hz)
Max Power	LM-DT200T: 5W
Consumption	LM-DT200R: 5W
Size (L-W-H)	110×80×30 mm
Net Weight	456g*2pcs
Operating Temperature/Humidity	0℃ - 70℃ / 10% - 80%RH(no condensation)
Storage Temperature/Humidity	-10℃ - 80℃/ 5% -90% RH(no condensation)

Fiber Parameter

Product Model	Max Distance	Fiber type	Optical Interface	Wave Length	Optical Power	Receiving Sensitivity	Link Budget
LM-DT200-S20	10-20KM	single mode	SC/FC	1310nm	-11~-3dBm	-36dBm	-25dBm
LM-DT200-S40	40KM	single mode	SC/FC	1510nm	-11~-3dBm	-36dBm	-25dBm
				1310nm	-5~0dBm	-36dBm	-31dBm

4.0 Connection and operation

1. Please connect the HDMI signal source to the LM-DT200T.
2. Connect LM-DT200R to the HD displayer.
3. Between LM-DT200T and LM-DT200R (SC port-to-SC port) use optical fiber to connect.
4. IR remote control function, connect the IR receiver to the HDMI TX and connect the IR transmitter to the HDMI RX.
5. Power on the device, POWER light on, then it will do the self-checking job with the other indicators blinking automatically. When the Link light flash, the device starts up.

Application diagram

