J-TECH DIGITAL®

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JTECH-HDT150

J-Tech Digital® ProAV® Series

150M HDBaseT 1080P Extender

HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE RoHS FC CE

JTD-223

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

I. Introduction

The HDMI Extender can extend HDMI signal over 500 feet/150 meters to an HDMI compatible display via single Cat5e/6 cable. It also supports bi-directional Infrared control signal and RS-232 transmission together with HDMI signal, it can allow you to easily control your DVD player at TV side or control your TV at the DVD player side when using this extender.

II. Features

1.HDMI 1.4, HDCP 1.4 and DVI compliant
2.Video resolutions up to 1080p@60Hz (YUV4:4:4)
3.HDMI High Bit Rate(HBR) audio pass through
4.150 meters transmission distance over CAT6 cable
5.POC (Power over Cable), either TX or RX is powered by one 24V@1A power supply
See the description 1
6.Bi-directional infrared control signal transmission
See the description 2
7.Bi-directional RS-232 signal transmission
See the description 3

III. Package

HDMI Extender Transmitter ---------- 1PCS
HDMI Extender Receiver ----------1PCS
Wideband IR emitter cable ----------1PCS
Wideband IR Receiver cable ----------1PCS
24V/1A Power Adaptor ----------1PCS
User Manual ---------- 1PCS

IV. Specifications

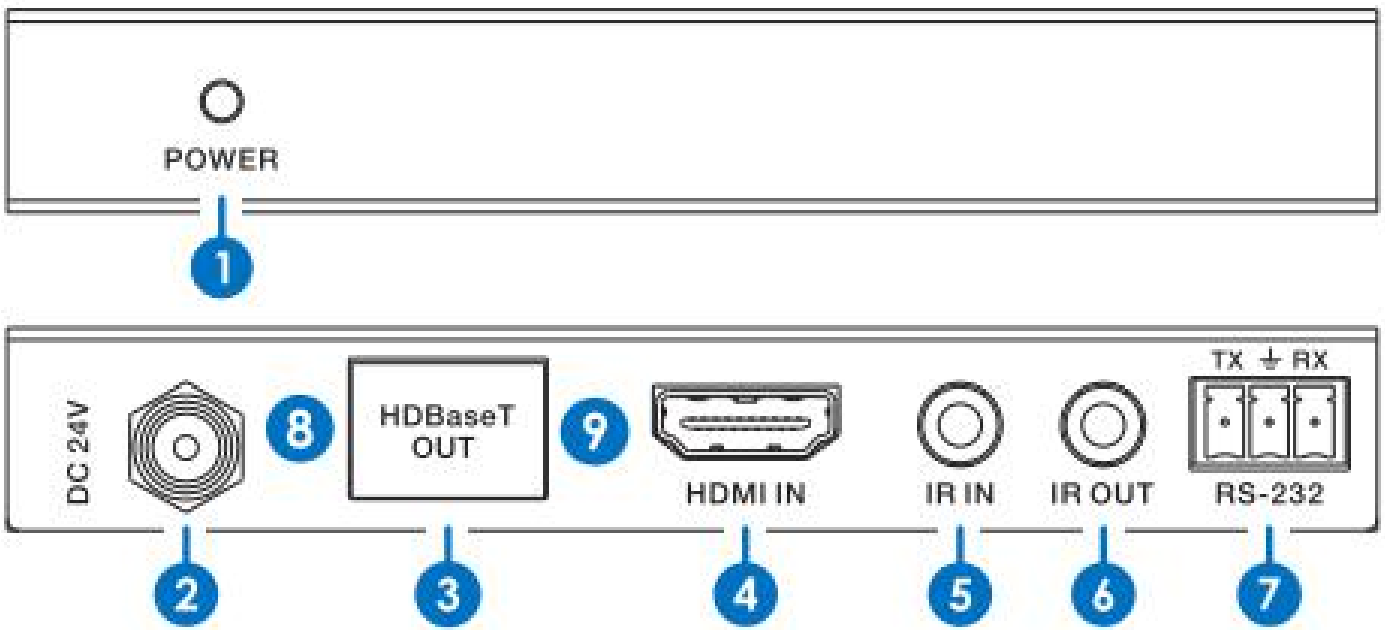
Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
Video Bandwidth	225MHz
Video Resolutions	up to1080P @60Hz YUV4:4:4、RGB4:4:4
Color Space	RGB, YUV4:4:4, YUV 4:2:2
Color Depth	8-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X

ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connections	
Inputs	Transmitter :1x HDMI Type A [19-pin female] 1x IR INPUT [3.5mm Stereo Mini-jack] 1x RS232 [Phoenix jack] Receiver: 1x HD BaseT In [RJ45] 1x IR INPUT [3.5mm Stereo Mini-jack] 1x RS232 [Phoenix jack]
Outputs	Transmitter : 1x HD BaseT Out [RJ45] 1x IR OUTPUT [3.5mm Stereo Mini-jack] Receiver: 1x HDMI Type A [19-pin female] 1x IR OUTPUT [3.5mm Stereo Mini-jack]

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	115mm [W] x 64.7mm [D] x 17mm [H]
Weight	406g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	5.76W (Max)
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

V. Operation Controls and Functions

Front panel



1.Power: System power indicator.

2.DC 24V: Connect 24V/1A adaptor to AC wall outlet for power supply.

3.HDBaseT Out: Standard HDBaseT output port. Connect HDBaseT receiver with a UTP

cable following the standard of direct interconnection method.

4.HDMI In: Connect to HDMI source device such as Blu-ray or PS4 player.

5.IR In: Channel 2 IR Receiver. Connect to an IR receiver cable.

6.IR Out: Channel 1 IR Transmitter. Connect to an IR emitter cable.

7.RS-232: Phoenix jack provide serial port control from transmitter to receiver.

8.Connection Signal Indicator Lamp

Illuminate: The Transmitter and Receiver are in good connections status.

Flashing: The Transmitter and Receiver are in poor connections status.

Dark: The Transmitter and Receiver are not connected.

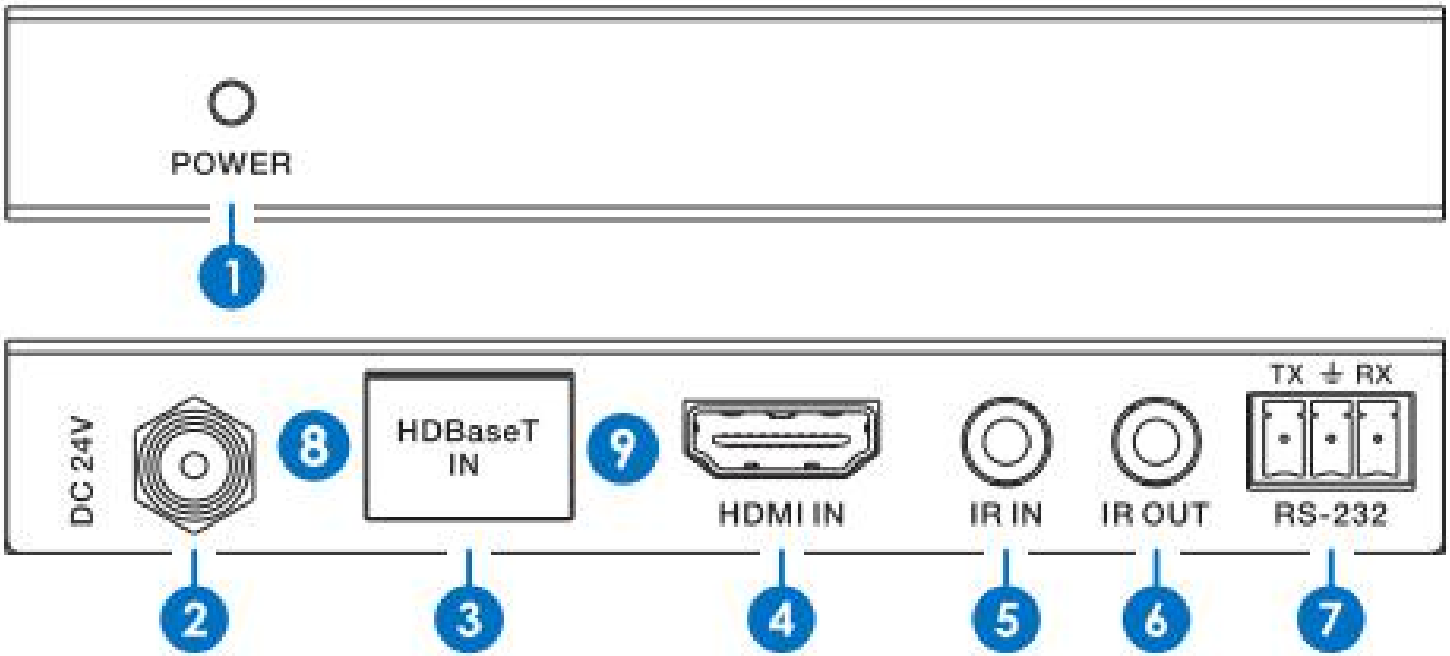
9.Data Signal Indicator Lamp

Illuminate: HDMI signal with HDCP.

Flashing: HDMI signal without HDCP.

Dark: No HDMI signal.

Receiver



1.Power: System power indicator.

2.DC 24V: Connect 24V/1A adaptor to AC wall outlet for power supply.

3.HDBaseT In: Standard HDBaseT input port. Connect HDBaseT Transmitter with a UTP cable following the standard of direct interconnection method.

4.HDMI Out: Connect to the HDTV or monitor HDMI input port.

5.IR In: Channel 1 IR Receiver. Connect to an IR receiver cable.

6.IR Out: Channel 2 IR Transmitter. Connect to an IR emitter cable.

7.RS-232: Phoenix jack provide Serial port control signal from transmitter to receiver.

8.Connection Signal Indicator Lamp

Illuminate: The Transmitter and Receiver are in good connections status.

Flashing: The Transmitter and Receiver are in poor connections status.

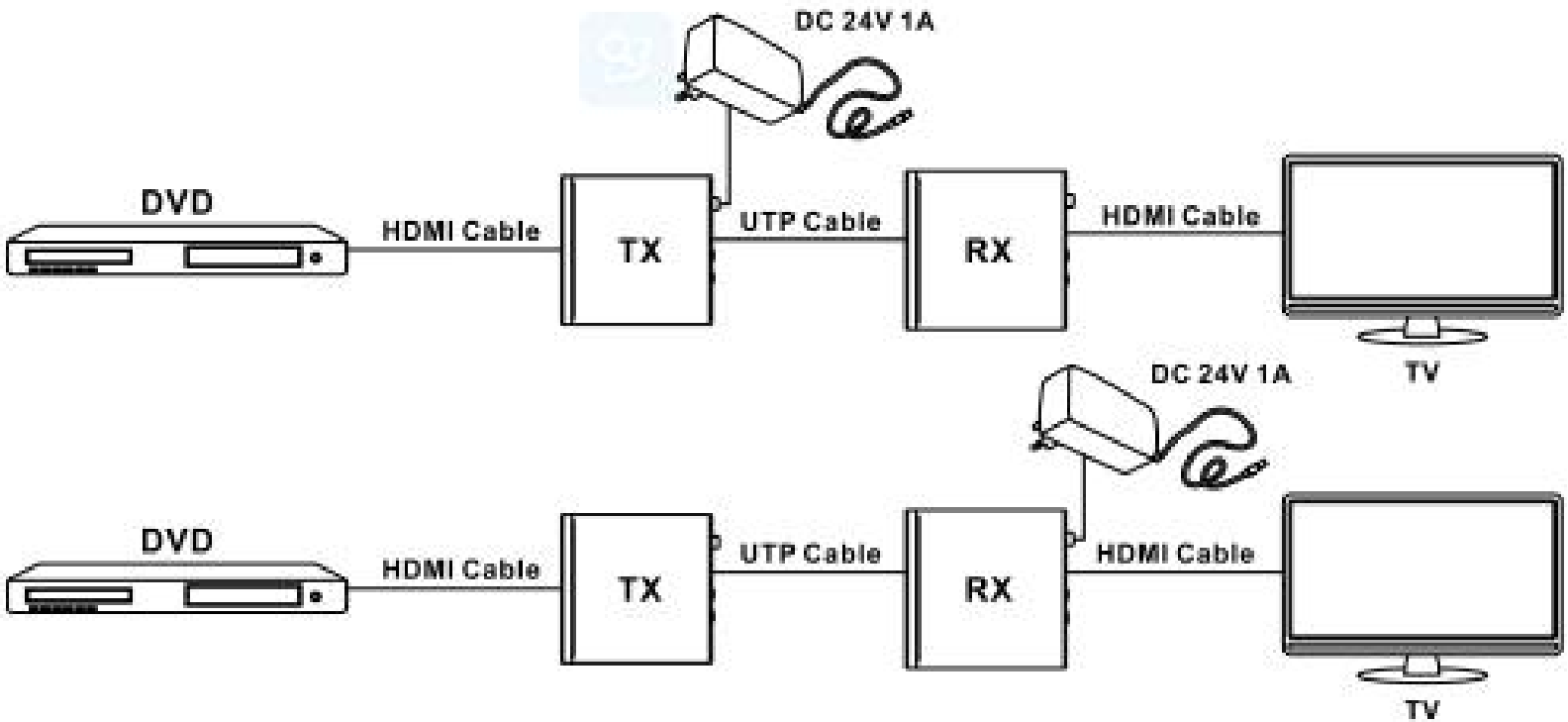
Dark: The Transmitter and Receiver are not connected.

Flashing: HDMI signal without HDCP.

Dark: No HDMI signal.

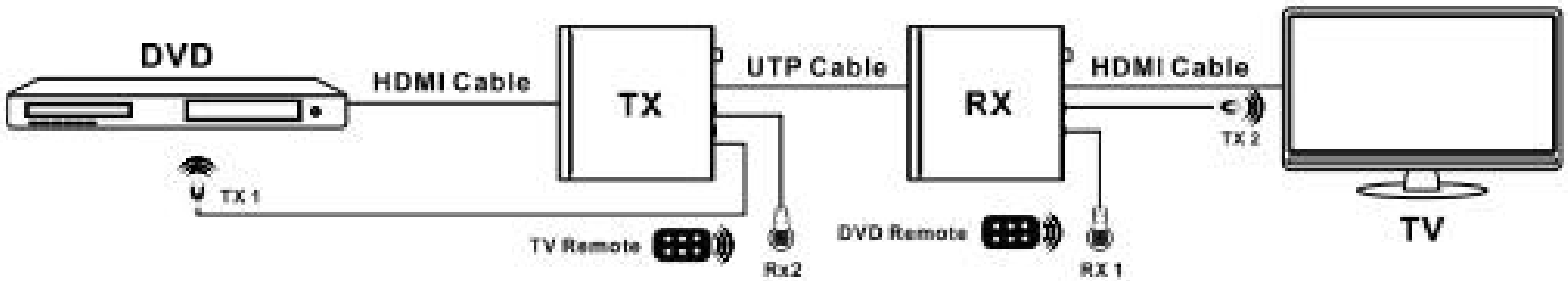
Description 1

POC (Power over Cable) Application Example



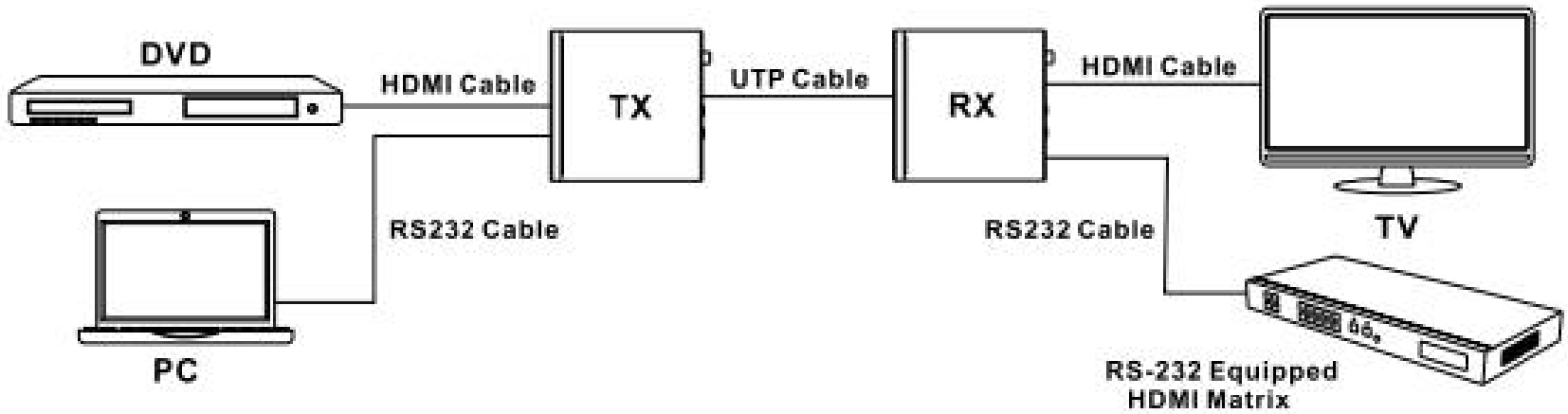
Description 2

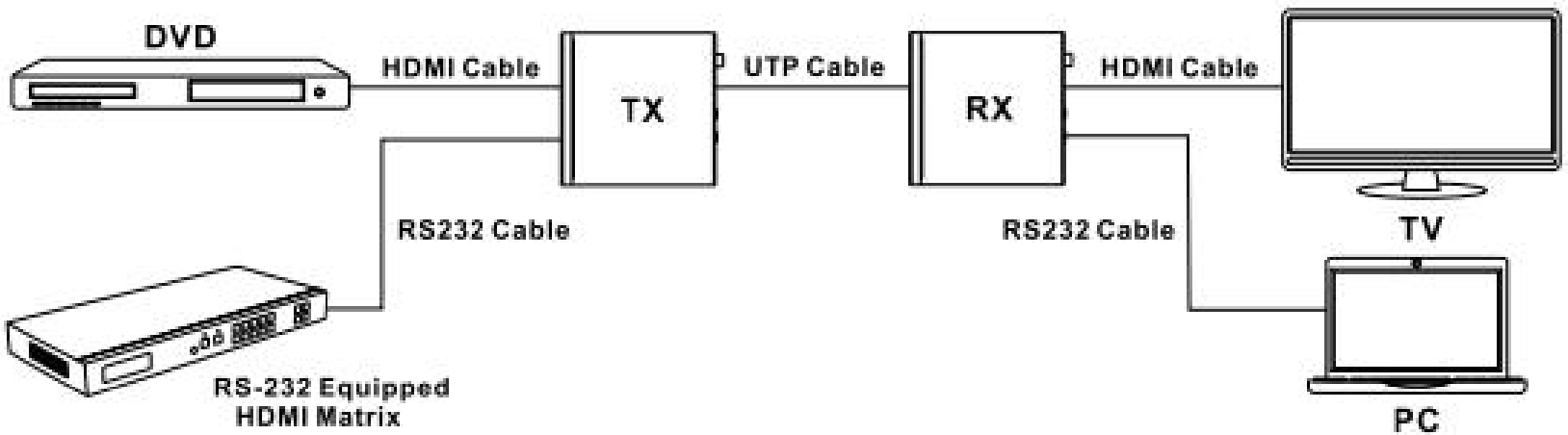
Bidirectional Infrared control Application Example



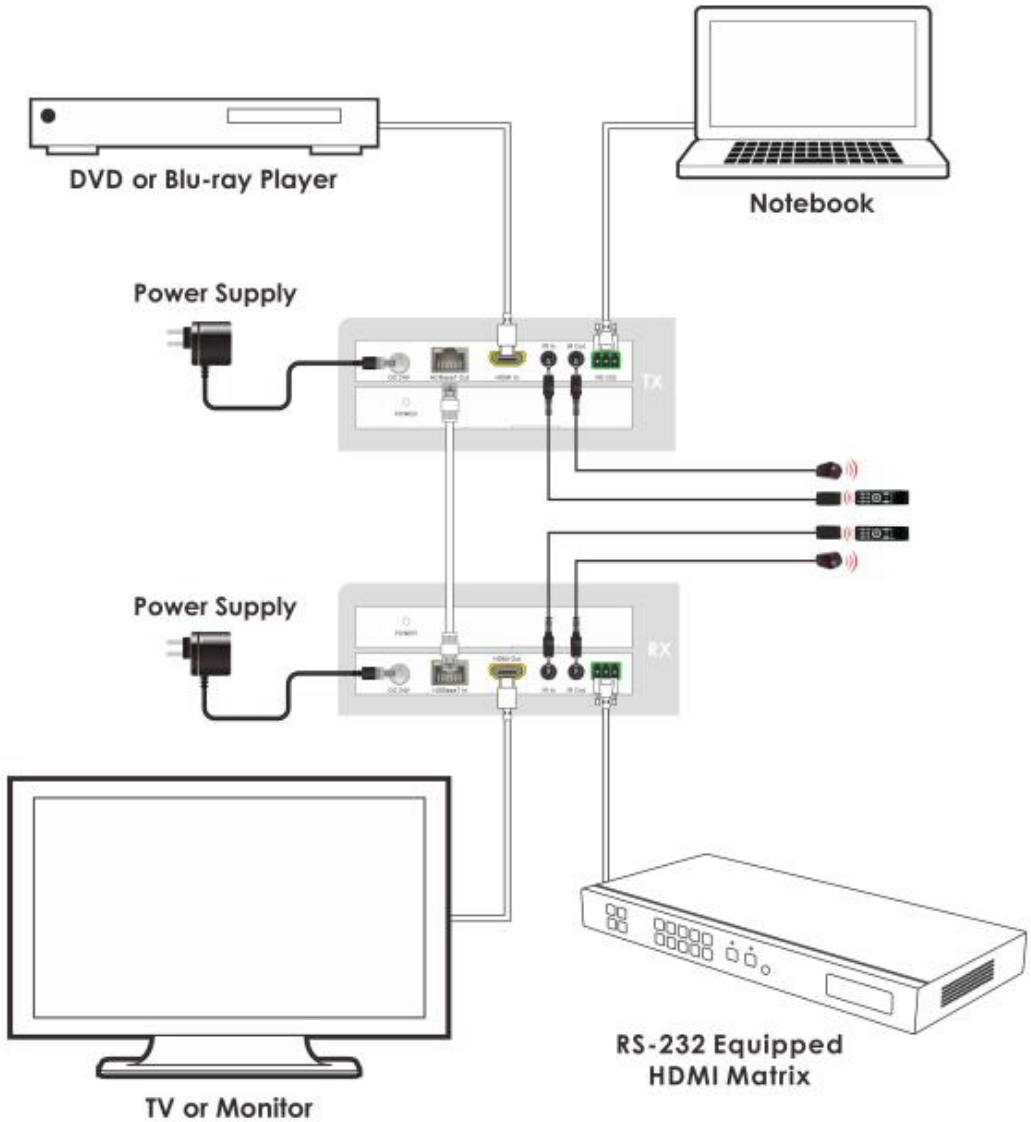
Description 3

Bidirectional RS232 control Application Example


DVD
HDMI Cable
TX
UTP Cable
RX
HDMI Cable
TV
RS232 Cable
RS232 Cable
PC
RS-232 Equipped
HDMI Matrix


DVD
HDMI Cable
TX
UTP Cable
RX
HDMI Cable
TV
RS232 Cable
RS232 Cable
RS-232 Equipped
HDMI Matrix
PC

VI. Application Example



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