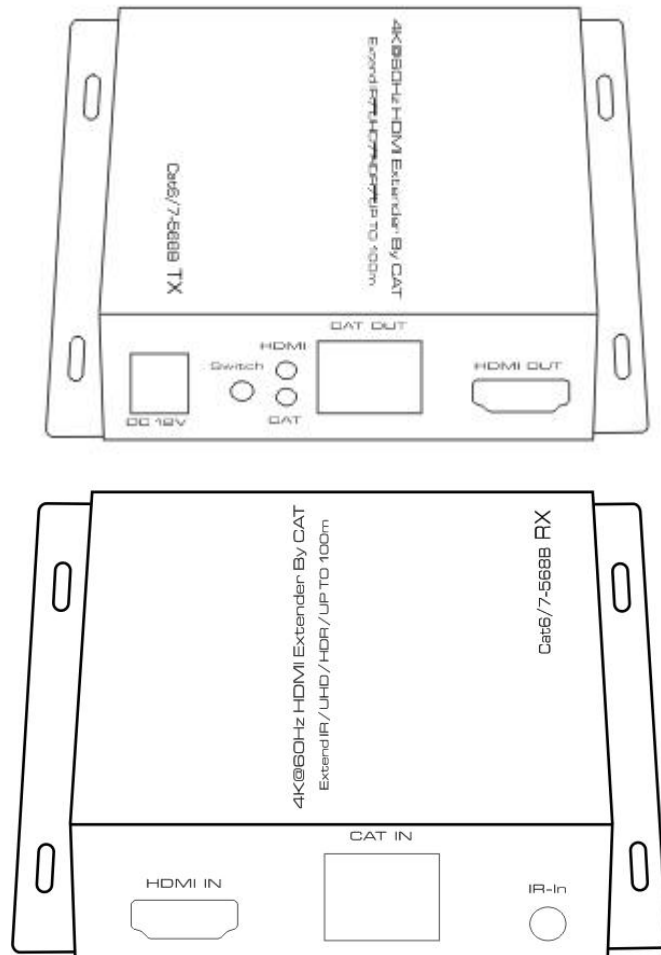# User Manual

4K@60Hz HDMI Extender By CAT
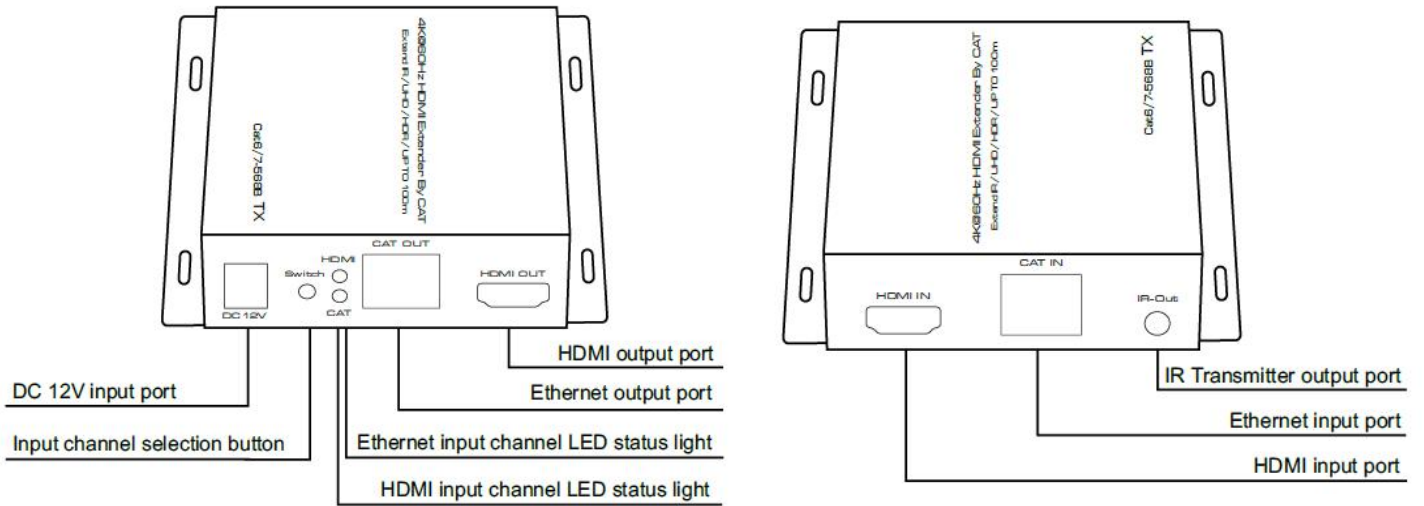
(Extend IR/ UHD/HDR/UP TO 100m)

Model No：HDEX0027M1
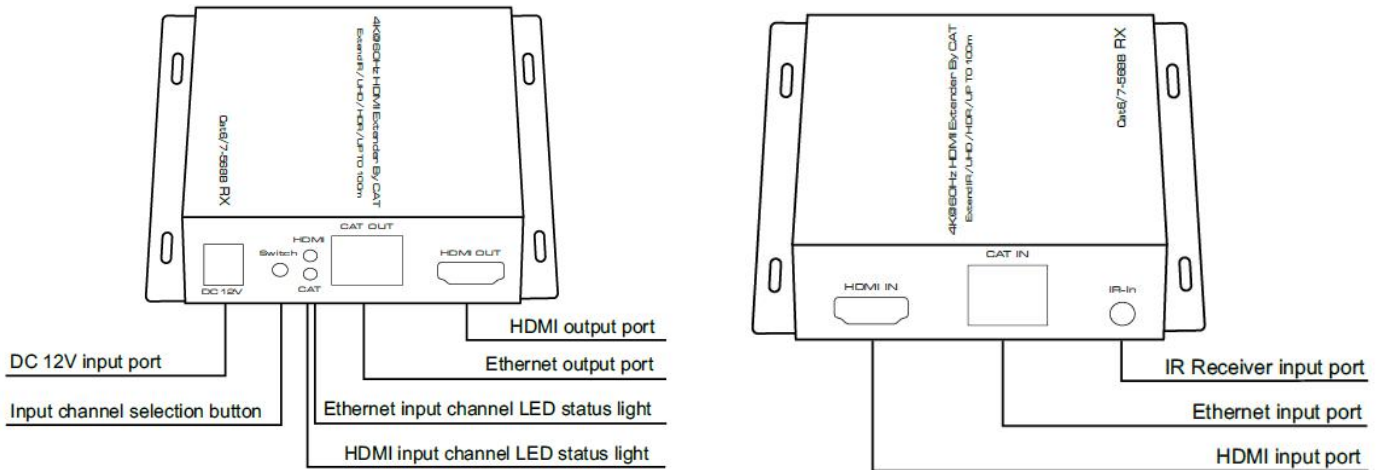
INTRODUCITON

Picture 1.0 Transmitter (TX)

DC 12V input port

Input channel selection button

HDMI output port

Ethernet output port

Ethernet input channel LED status light

HDMI input channel LED status light

IR Transmitter output port

Ethernet input port

HDMI input port

Picture 1.1 Receiver (RX)

DC 12V input port

Input channel selection button

HDMI output port

Ethernet output port

Ethernet input channel LED status light

HDMI input channel LED status light
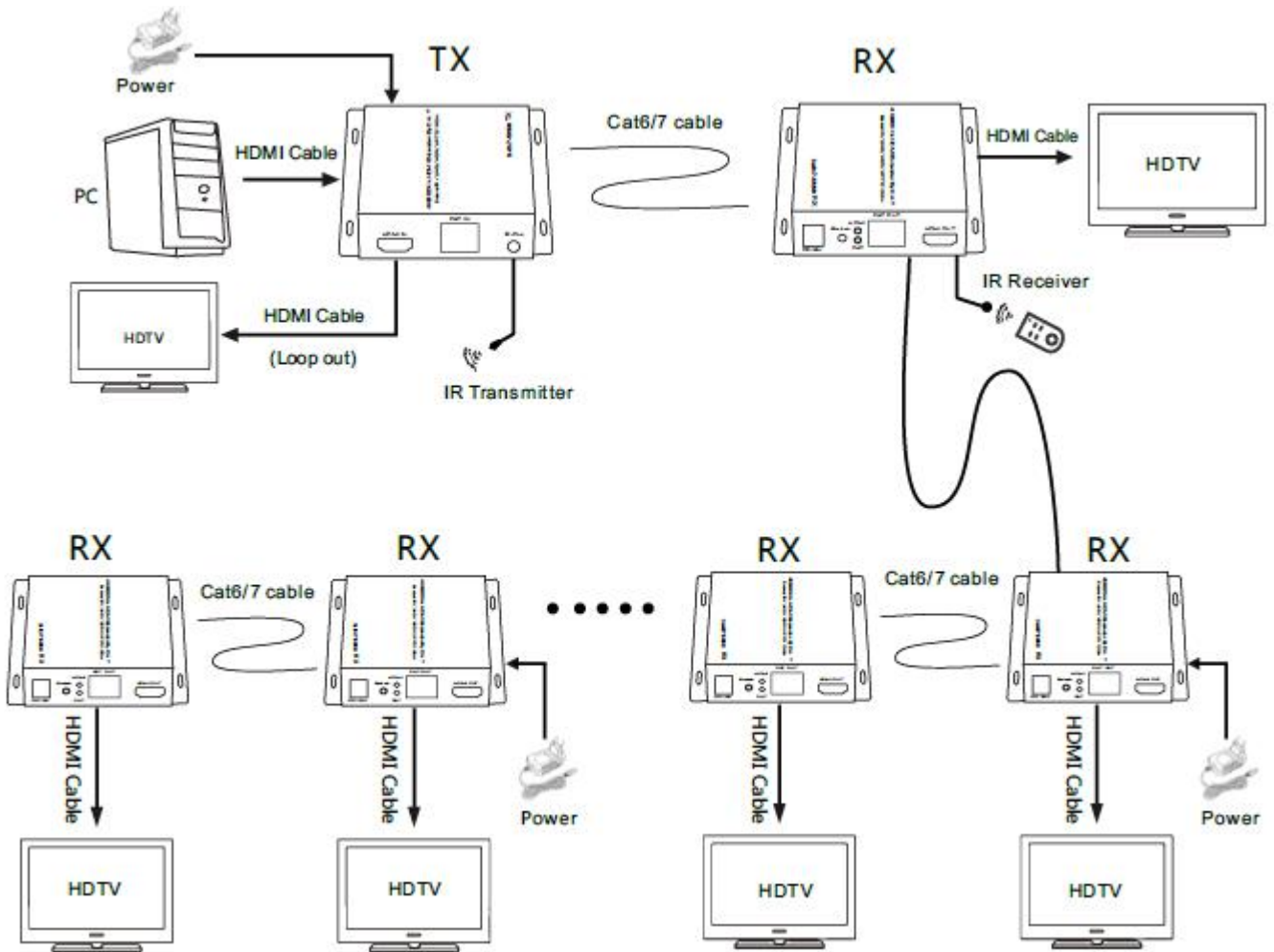
IR Receiver input port

Ethernet input port

HDMI input port

Connection and operation:
One-to-one connection
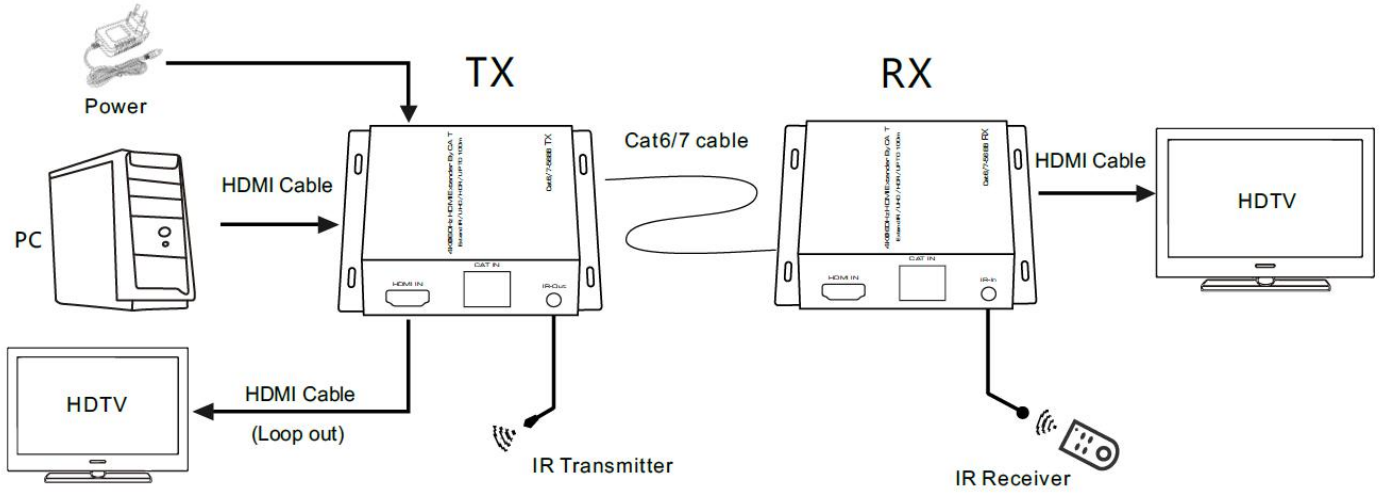
One-to-Many connection

Note: to follow above connecting diagram shows, you can connect HD Signal source → HDMI Extender Transmitter → HDMI Extender Receiver → Display→IR Transmitter→IR Receiver-Power

1. Connect the HDMI IN Port of the TX to the HDMI output port of signal source/PC over one HDMI cable.

2. Connect the HDMI OUT Port of the RX to the HDMI input port of display device over one HDMI cable.

3. To use one Ethernet cable to connect the CAT Output port of TX with the CAT IN Port of RX, Ethernet cable max supports to 100m. You can do cascade link by using Ethernet cable to connect the CAT Out port of the RX with the CAT IN Port of the next level RX.

4. To connect the power adaptor to the TX or RX for supply the power.

5. IR Transmitter and Receiver to connect to matched IR-IN/IR-OUT port.
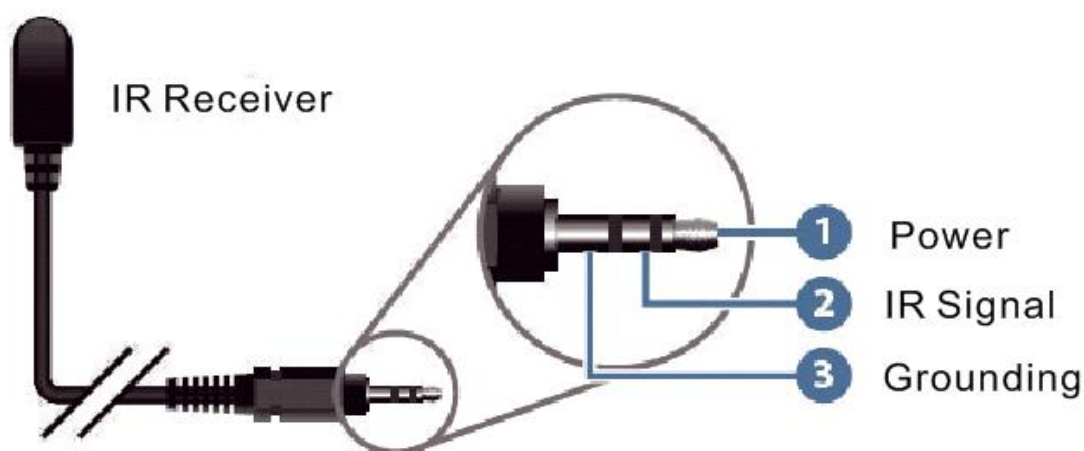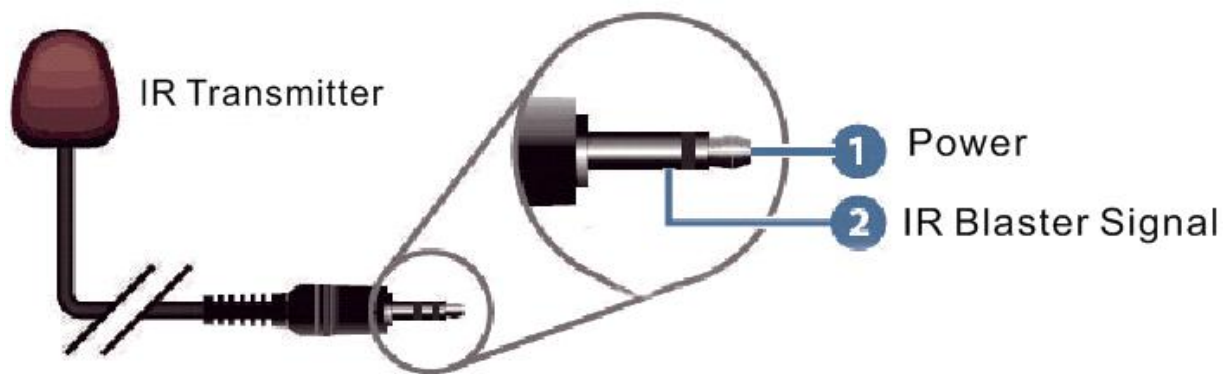
IR Extend

1. IR Extend is used for using IR remote to do distance control to the peripheral device.

2. To check if the working frequency of the IR remote is under the range of the 30-50HZ.

3. To point the IR Transmitter head at the peripheral device location.

4. At One to Many mode, the IR can be only used for the first level TX and RX data transmission rather than the latter level.

5. TX IR and RX IR Pins Diagram :

IR Transmitter

1. Power
2. IR Blaster Signal

IR Receiver

1. Power
2. IR Signal
3. Grounding

SPECIFICATIONS:

Model No.	HDEX0027M1
Model name	**4K@60Hz HDMI Extender By CAT**
HDMI resolution	4K/1080P/720P/576P/576i/480P/480i@24Hz/25Hz/30Hz/50Hz/60Hz, Supports1080P@120Hz etc,(not support Dolby Vision video format.)
HDMI Audio format	AC-3/DTS/PCM
HDMI Max bandwidth	600MHz Max
HDMI Max baud rate	18Gbps Max
Network cable interface	Standard IEEE-568B wiring method
Transmission distance	≤100m（Cat 6e 4K@30Hz/1080P@60Hz）If need more longer distance,please use the cascade link. ≤70m（Cat 6e 4K@60Hz）If need more longer distance,please use the cascade link.
IR Carrier frequency	30~50KHz
POC features	support

Output HDMI cable distance	2160P/AWG 26 ≤3m 1080P/AWG 26 ≤8m
Power adapter specification	AC 100~240V/DC 5V/1.5A
Max working current	600mA
Working temperature range	0 ~ +40℃
Working humidity range	5 to 85%RH（No Condensation）
Storage temperature	-15 to 55℃
Storage humidity	5 ~95%RH(No Condensation)
Size	93. 5x93. 8x28(mm)
Weight	TX≈145g/RX≈145g
Accessories	Manual x1, Power Adaptor x1、IR Transmitter cable x1、 Receiver cable x1

Function Advantage: Each RX at the cascade link have separate Scaler Down function, TX Loop Out port do not support Scaler Down function,

Note：Scale down function only support YCBCR 4:4:4 or 4:2:2 or RGB color format, and it do not support YCBCR 4:2:0 video format.