



# 18Gbps HDMI Extender with Unidirectional IR Control (50 m)

**Model: CAT-HD-50C**



## INTRODUCTION

The 18Gbps HDMI extender can extend hd audio and video signals and one-way IR signals through a single Cat5e/6 line with a length of 50 meters and video resolution up to 4K2K@60Hz 4:4:4 support local HDMI loop output at the receiving end can strip the audio of the source device to analog L/R output, support PoC function. In addition, the extender supports one-way IR control, that is, the user can control the source through IR signal at the display end.

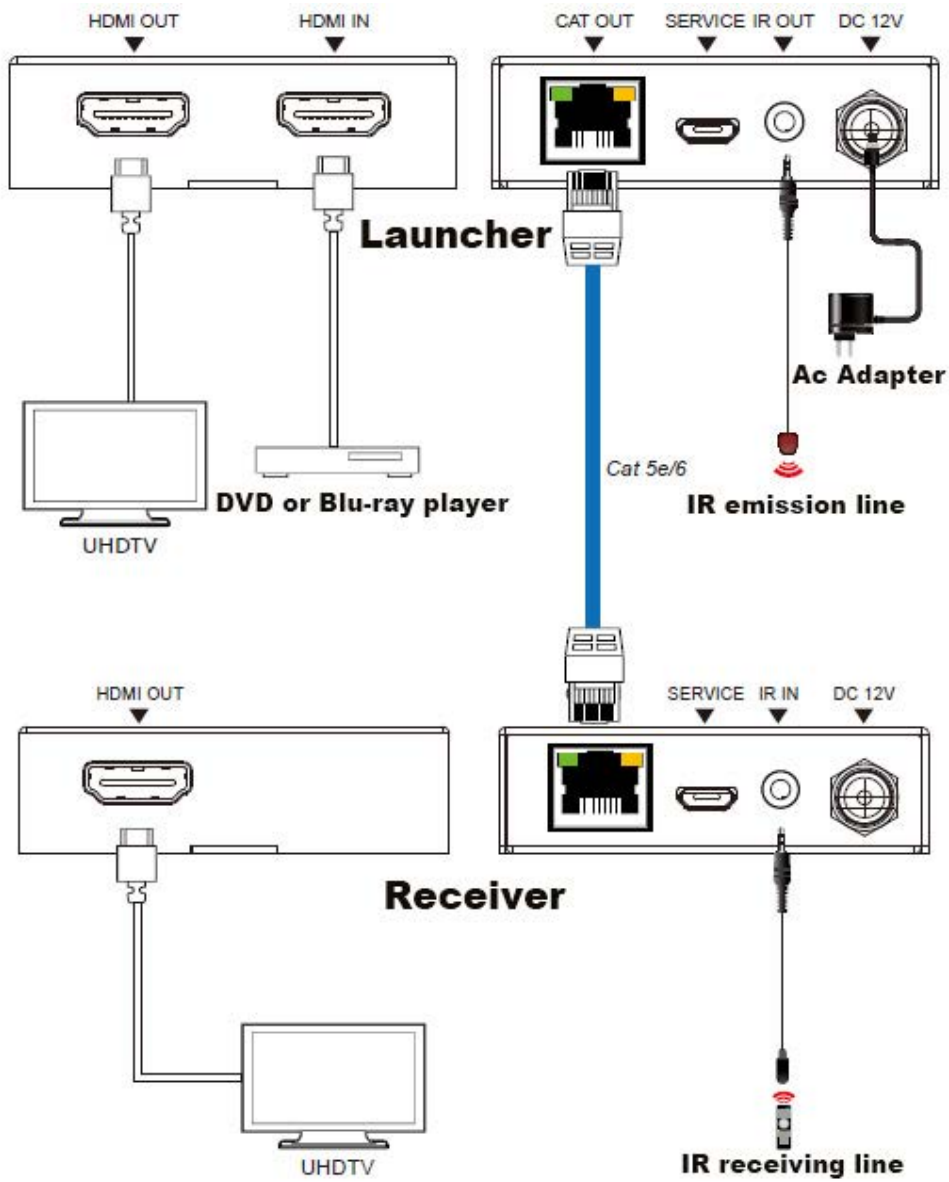
This extender contains transmitter and receiver two parts through the use of CAT cable, HDMI extension applications to provide the best solution.

## FEATURES

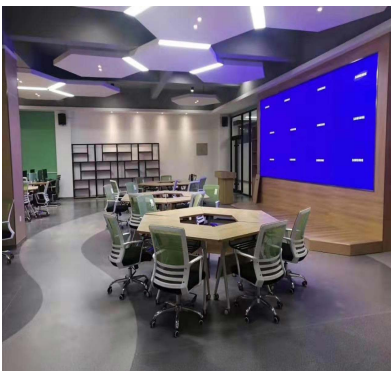
- Conforms to HDMI 2.0 HDCP 2.2/HDCP 1.4 and DVI 1.0 specifications;
- Supports 18Gbps video bandwidth;
- Input and output support video resolution up to 4K2K@60Hz 4:4:4;
- Through a single Cat5e/6 wire, the signal transmission distance can be extended to 50 meters;
- Support 1 HDMI loop output (transmitter);
- With unidirectional IR control;
- Supports the HDR function;
- Supports Power over Cable (PoC);
- Supports automatic EDID copy;
- Supports automatic EDID copy.



## DIAGRAM



## APPLICATION





## SPECIFICATIONS

Specification		
HDMI compatible	HDMI 2.0	
HDCP compatible	HDCP 2.2/HDCP 1.4	
Video bandwidth	18Gbps	
Video Resolution	4K2K 50/60Hz 4:4:4 4K2K 50/60Hz 4:2:2 4K2K 50/60Hz 4:2:0 4K2K 30Hz 4:4:4 1080p, 1080i, 720p, 720i, 480p, 480i All 3D TV formats All computer resolutions, including 1920 x 1200	
Color Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0	
Color Depth	8/10/12-bit (1080P60Hz, 4K30Hz, 4K60Hz YCbCr4:2:2/4:2:0) 8-bit (4K60Hz 4:4:4)	
HDMI audio format	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X	
Electrostatic Protection	±8kV (kV) , ±4kV (Contact discharge)	
Connect		
Launcher	Input: 1×HDMI Type A [19-pin Receptacle] 1×SERVICE [Mini-USB, Scalable Link Interface] Output: 1×HDMI Type A [19-pin Receptacle] 1×CAT OUT [RJ45, 8-pin Receptacle] Control: 1×IR OUT [3.5mm Stereo Mini-jack]	
Receiver	Input: 1×CAT IN [RJ45, 8-pin Receptacle] 1×SERVICE [Mini-USB, Scalable Link Interface] Output: 1×HDMI Type A [19-pin Receptacle] Control: 1×IR IN [3.5mm Stereo Mini-jack]	
Fuselage		
Housing	Metal Case	
Color	Black	
Size	Launcher / Receiver: 88mm [L] x 61mm [W] x 18mm [H]	
Weight	Launcher: 160g, Receiver: 155g	
Power supplies	Input: AC 100~240V 50/60Hz Output: DC 12V/1A	
Power Consumption	3.84W	
Operating temperature	0°C ~ 40°C / 32°F ~ 104°F	
Storage temperature	-20°C ~ 60°C / -4°F ~ 140°F	
Relative humidity	20~90% RH (No condensation)	
Resolution/Range	4K60 - Meter	4K30 / 1080P - Meter
CAT5e	50m	50m
CAT6/6a/7	60m	70m
Resolution/line length	4K60 - Meter	4K30 / 1080P - Meter
HDMI IN / OUT	3m	10m

Advanced high-speed HDMI cable is recommended.