swissonic

HDbaseT HDMI2.0 Extender 100m

Quick start guide

This quick start guide contains important information on the safe operation of the product. Read and follow the safety advice and instructions given. Retain the quick start guide for future reference. If you pass the product on to others please include this quick start guide.

Safety instructions

Intended use

This device is used to transmit HDMI signals via network cables. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

Danger for children

⚠️ Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard! Ensure that children do not detach any small parts from the product. They could swallow the pieces and choke!

Where to use the product

Never use the product
• in conditions of extreme temperature or humidity
• in extremely dusty or dirty areas
• at locations where the unit can become wet

General handling

• To prevent damage, never use force when handling the product.
• Never immerse the product in water. Just wipe it with a clean dry cloth. Do not use liquid cleaners such as benzene, thinners or flammable cleaning agents.
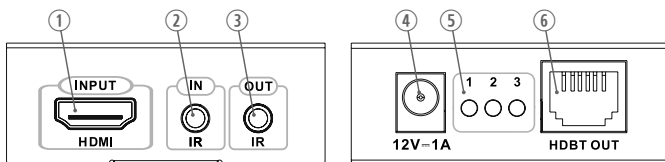
Features

• Transmits an uncompressed HDMI signal over a CAT5e / 6 / 6a / 7 cable
• Supports Full-HD 1080p60 up to 4K × 2K @ 60 Hz
• Suitable for distances up to 100 meters
• Transmission protocol: HDbaseT
• Bidirectional transmission of IR signals

• Supports HDCP, CEC and 24 deep color as well as LPCM audio and compressed audio such as DTS-HD and Dolby True HD
• Scope of delivery: HDbaseT transmitter, HDbaseT receiver, 2 × IR transmitter / receiver cables, 2 × power adapters
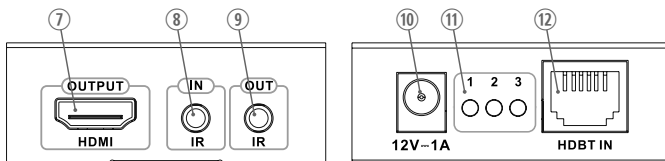
Operating elements

Transmitter

① INPUT HDMI – HDMI input
② IN IR – connection for infrared receiver
③ OUT IR – connection for infrared transmitter
④ 12V⎓1A – connection for power adapter
⑤ 1 2 3 – control LEDs for device functions
    1: LED lights up when device is supplied with voltage
    2: LED lights up when the connection between transmitter and receiver is established
    3: LED lights up when there is a connection to the HDMI signal source and a signal is present
⑥ HDBT OUT – HDBaseT signal output

Receiver

⑦ OUTPUT HDMI – HDMI output
⑧ IN IR – connection for infrared receiver
⑨ OUT IR – connection for infrared transmitter
⑩ 12V⎓1A – connection for power adapter
⑪ 1 2 3 – control LEDs for device functions
    1: LED lights up when device is supplied with voltage
    2: LED lights up when the connection between transmitter and receiver is established
    3: LED lights up when there is a connection to the HDMI display and a signal is present
⑫ HDBT IN – HDBaseT signal input

Using the product

1. Connect both devices using the supplied power supplies with properly wired wall outlets. The respective Power indicator (1) lights up, the devices are immediately ready for operation.

2. Connect the HDMI source to the INPUT HDMI socket of the transmitter using a suitable cable. Its LED (3) lights up when connected and a signal is present.

3. If you want to control the display connected to the receiver via infrared from the position of the transmitter, connect the infrared cable marked with **IR IN** to the IN IR socket of the transmitter and the cable marked with **IR OUT** to the OUT IR socket of the receiver. The diode at the end of the cable marked with IR OUT must point to the IR sensor on the display. You can find out where this sensor is located in the operating instructions for the display.

4. Connect the HDBT OUT socket of the transmitter to the HDBT IN socket of the receiver using a CAT5e / 6 / 6a / 7 cable (max. length 100 m). The LEDs (2) on both devices light up to confirm the established connection.

5. Connect the HDMI display to the OUTPUT HDMI socket of the receiver using a suitable cable. The LED (3) lights up when there is a connection and a signal is present.

6. If you want to control the HDMI source with its IR remote control from the location of the receiver, connect the infrared cable marked with **IR IN** to the IN IR socket of the receiver and the cable marked with **IR OUT** to the OUT IR socket of the transmitter. The diode at the end of the cable marked with **IR OUT** must point to the IR sensor on the HDMI source. You can find out where this sensor is located in the operating instructions for the HDMI source.

7. Switch on the HDMI devices and start the transmission on the HDMI source.

8. After use, disconnect both power adapters from the power supply.

swissonic

HDbaseT HDMI2.0 Extender 100m

Technical specifications

Resolutions	input	up to 2160p60		
	output	up to 2160p60		
Format		HDMI 1.4		
HDCP		HDCP 1.4		
Colour depth		24 bit		
Audio formats		LPCM, DTS-HD und Dolby TrueHD		
Audio outputs	digital	./.		
	analogue	./.		
Input connections		1 × HDMI		
		1 × RJ45		
		IR		
Output connections		1 × HDMI		
		1 × RJ45		
		IR		
Input signal looping		./.		
Connection cable in / output module		CAT 5e / CAT 6 / CAT 6a / CAT 7		
Transmission length		CAT 5e / CAT 6	100 m	up to 1080p @ 60 Hz 36 bpp
			70 m	1080p @ 60 Hz 48 bpp
				1080p @ 60 Hz 3D
				4K × 2K @ 60 Hz (4:2:0)
Additional equipment		Bidirectional transmission of infrared signals		
Power supply		External power adapter, 100 - 240 V~ 50/60 Hz		
Operating voltage		12 V⎓ / 1000 mA, centre positive		
Degree of protection		IP20		
Dimensions (W × H× D)		113 mm × 24 mm × 64 mm		
Weight		Transmitter	79 g	
		Receiver	107 g	
Ambient conditions		Temperature range	0 °C…40 °C	
		Relative humidity	50 %, non-condensing	

Troubleshooting

Symptom	Remedy
No image on the display.	Check the status of the control LEDs and ensure that all connections have been made correctly.
LED 3 flashes, but no image on the display.	Check that the correct HDMI input channel is selected on the display.
LEDs 2 are flashing, but LEDs 3 are off.	Check that the transmitter is receiving an input signal. Make sure that the HDMI output of the receiver is correctly connected to the display.
The image on the display is disturbed.	Replace the cable at the signal input of the transmitter or use shorter HDMI cables.