HDBaseT transmitter and Splitter with HDMI Local Output

HDC-TH101 / HDC-TH201 / HDC-TH401

The IDK HDC-TH101, 201, and 401 are transmitters and splitter for HDBaseT signal. HDC-TH101, 201, and 401 can split and transmit HDBaseT signals up to 4 signals and have HDMI local output. These units also have analog audio de-embedded.

■Specification

Item				Description		
Model number				HDC-TH101	HDC-TH201	HDC-TH401
Input	Video	HDMI / DVI	Number / Signal	1 input / HDMI Deep Color (*1) / DVI 1.0 - HDCP1.4 (*2) - TMDS single link - TMDS clock: 25 MHz to 225 MHz - Dot clock: 25 MHz to 165 MHz		
			Connector	1 female HDMI Type A (*5)		
		Formats		480i / 480p / 576i / 576p / 720p / 1080i / 1080p VGA to QWXGA * VESA1080 / WUXGA / QWXGA: only Reduced Blanking is supported.		
		Color depth		24 bit, 30 bit, 36 bit Deep Color		
	Audio	Digital	Number / Signal	1 input / Multi-channel linear PCM up to 8 channels - Sampling frequency: 32 kHz to 192 kHz - Sample bit: 16 bit to 24 bit - Reference level:-20 dBFS - Max. input level: 0 dBFS		
			Connector	1 female HDMI Type A (*5)		
Output	Video	HDMI / DVI	Number / Signal	1 output / HDMI Deep Color (*1) / DVI 1.0 - HDCP1.4 (*2) - TMDS single link - TMDS clock: 25 MHz to 225 MHz - Dot clock: 25 MHz to 165 MHz		
			Connector	1 female HDMI Type A (*5)		
		HDBaseT	Number	1 output	2 outputs	4 outputs
			Signal	HDBaseT - HDCP1.4 (*2) - TMDS single link - TMDS clock: 25 MHz to 225 MHz - Dot clock: 25 MHz to 165 MHz y		
			Connector	1 RJ-45 (*3)	2 RJ-45 (*3)	4 RJ-45 (*3)
		Formats		480i / 480p / 576i / 576p / 720p / 1080i / 1080p VGA to QWXGA * VESA1080 / WUXGA / QWXGA: only Reduced Blanking is supported.		
		Color depth		24 bit, 30 bit, 36 bit Deep Color		
	Audio	Digital	Number	1 output	2 outputs	4 outputs
			Signal	Multi-channel linear PCM up to 8 channels - Sampling frequency: 32 kHz to 192 kHz - Sample bit: 16 bit to 24 bit - Reference level: -20 dBFS - Max. output level: 0 dBFS		
			Connector	1 female HDMI Type A (*5)	2 female HDMI Type A (*5)	4 female HDMI Type A (*5)
		Analog	Number / Signal	1 output / Stereo LR unbalanced signal - Output impedance: 75 Ω - Reference level: -10 dBu - Max. output level: +10 dBu		
			Connector	1 RCA jack		
Function		Others		Seven segment LED signal status check Anti-Snow (*7) Connection Reset (only HDMI output) (*8)		
Plug & Play				DDC2B is supported		
Twisted pair cables				Cat5e UTP / STP, Cat6 UTP / STP, CAT.5E HDC cable (*4)		
Max. extension distance				197 ft. approx. / 60 m (*6)		
Others	AC adapter			90 - 250 VAC ± 50 Hz / 60 Hz ± 3 Hz		
	Power consumption			About 9 Watts	About 12 Watts	About 18 Watts
	Dimensions			8.27 x 1.73 x 11.81 / 210 (W) x 44 (H) x 300 (D) mm (EIA 1/2U size, projections are not included)		
	Weight			4.19 lbs. / 1.9 kg	4.19 lbs. / 1.9 kg	4.41 lbs. / 2.0 kg
	Temperature			Operating: 32°F to 104°F / 0°C to +40°C Storage: -4°F to +176°F / -20°C to +80°C		
	Humidity			Operating/ Storage humidity: 20% to 90% (Non Condensing)		

*1 xvYCC, 3D, ARC and HEC are not supported.
*2 HDCP-compliant DVI signals are not supported. To transmit these signals, use our extender which supports DVI signals or MSD-402 as receivers.
*3 RJ-45 (HDBaseT input/output connectors) is only for Cat5e/Cat6 twisted pair cable. Please do not use it for LAN devices or the like.
*4 T568A or T568B straight connection. HDC.CAT5E cable is HDBaseT recommended cable which IDK developed.
*5 Please use HDMI cable which is shorter than 5 m / 16.4 ft. approx.
*6 If connected to a device whose status is significantly bad, video signal can be unstable or cannot be output. Check the operation beforehand or contact us.
*7 The anti-snow feature automatically fixes snow noise that is a specific symptom of HDCP-compliant signals and mainly occurs at start-up. This feature does not work when snow noise has already occurred during startup or when it occurs due to a bad condition of the transmission line.
*8 For digital systems, some problems, such as an HDCP authentication error, can often be recovered by physically disconnecting and reconnecting the digital cables. However, the Connection Reset feature will fix these problems automatically without the need to physically plug and unplug the cables. It creates the same condition as if the cable were physically disconnected and reconnected. This feature only works for the HDC's output. If other devices are connected between the HDC's output and sink device, this feature may be invalid.

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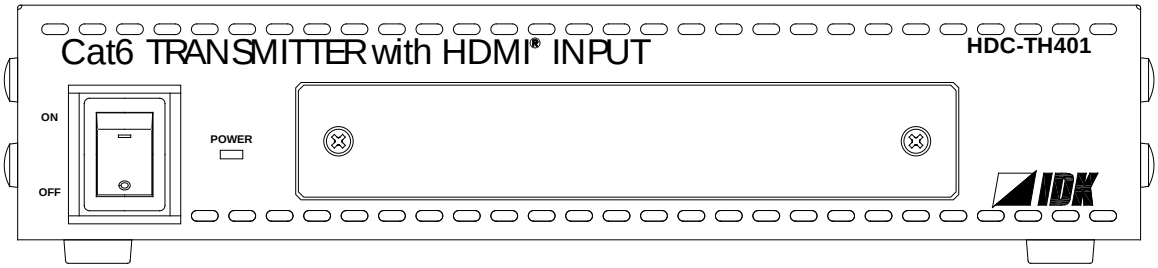
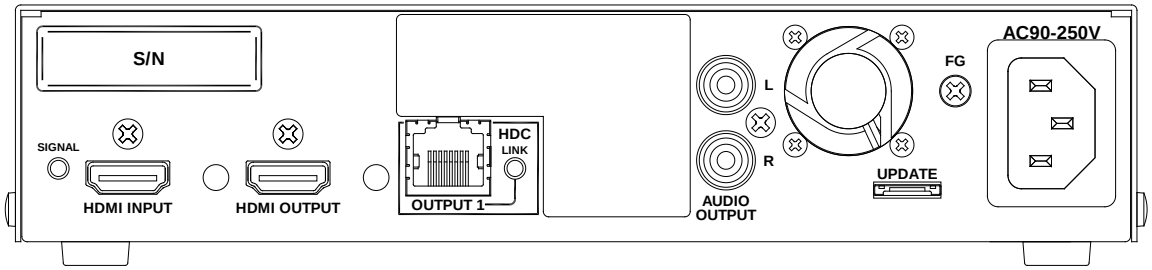
■ **Front and rear panel**

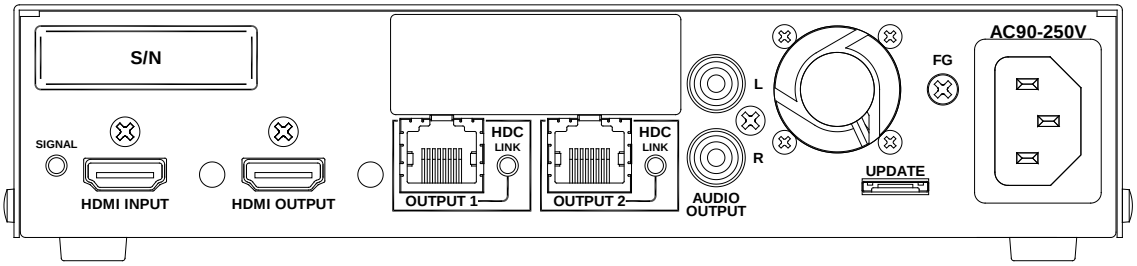
Front panel



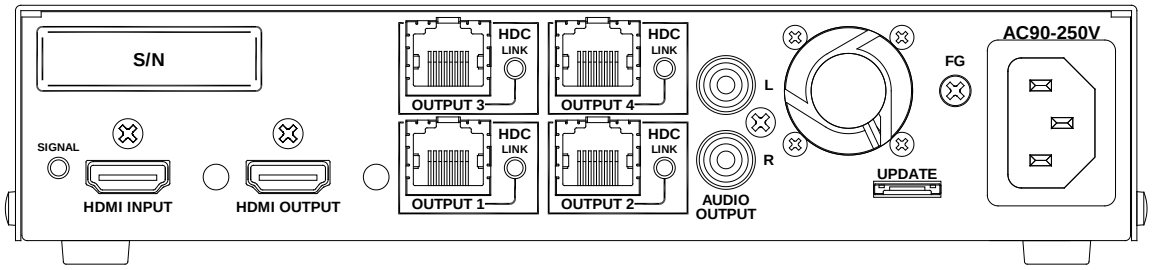
HDC-TH101: Rear panel



HDC-TH201: Rear panel



HDC-TH401: Rear panel



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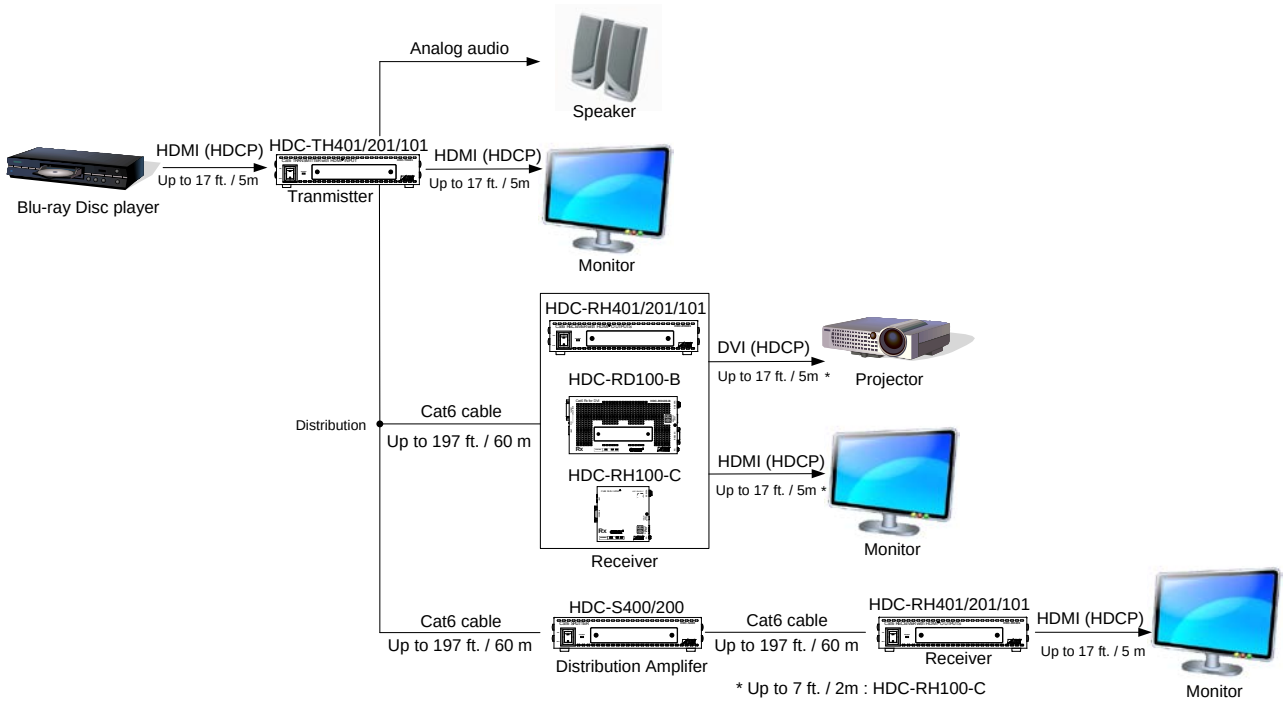
HDC-TH101 / HDC-TH201 / HDC-TH401 Diagram and Features

■ Sample connection diagram



[Features]

■ Video

- Up to QWXGA (RB)*1 or 1080p
- HDCP supported
- Up to 197 ft. approx. / 60 m signal extension over a Cat6 cable
- HDMI local output
- Anti-snow

■ Others

- Analog audio de-embedded

■ Others

- EDID emulation
- Seven segment LED signal status check
- Connection Reset (only HDMI output)

*1. (RB) = Reduced Blanking

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