



## HDB880-4K HDMI 8x8 HDBaseT Matrix



IMOWARE HDB880-4K is a controllable Matrix and can connect 8 HDMI sources to 16 displays. It features 8 HDMI outputs and each HDMI output is mirrored to provide a HDBaseT output which runs simultaneously. HDBaseT output can extend video transmission distance up to 150m via a single Cat 5e/6/7 cable and the resolution is up to 4K2K@60Hz 4:4:4. Audio de-embedded to analog and coaxial audio is supported. Each HDMI output supports 4K2K to 1080P downscaler independently.

The product supports IR matrix. The IR signal is one-to-one control at the Matrix end, but the IR signal follows HDMI video channel at the HDBaseT Receiver end.

The product provides an intuitive set of front panel with OLED screen and supports control via front panel buttons, IR remote, RS-232, LAN, and Web GUI.

### Features:

- HDMI 2.0b, HDCP 2.2 and HDCP 1.x compliant
- Video resolution up to 4K2K@60Hz (YUV 4:4:4) on all HDMI & HDBaseT ports
- 8 HDMI inputs, 8 HDMI & HDBaseT mirrored outputs
- HDMI ports transmit 18Gbps lossless uncompressed video bandwidth
- Support 18Gbps lossless compressed HDBaseT signal transmission
- Support 4K->1080P Down Scaler for each output port
- HDR, HDR10, HDR10+, Dolby Vision, HLG are supported
- HDBaseT output can extend video transmission distance up to 150m for 1080P or 120m for 4K2K via a single Cat 5e/6/7 cable

- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD and DTS-HD Master Audio)
- Support IR matrix
- Audio de-embedded is supported via analog and coax ports
- Advanced EDID management and CEC control are supported
- 24V POC on all HDBaseT ports
- 2U rack mounted design with front panel OLED display
- Control via front panel buttons, IR remote, RS-232, LAN and Web GUI

## Specifications:

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.x
Video Bandwidth	600MHz [18Gbps]
Video Resolution	480i, 576i, 480p, 576p, 720p, 1080i, 1080P24/30/50/60, 4Kx2K@30, 4K2K@50/60Hz (4:4:4)
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit , 10-bit,12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)
HDR	HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio Formats	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
Coax Audio Formats	PCM 2.0, Dolby Digital / Plus, DTS 2.0/5.1
Analog Balanced Audio Formats	PCM2.0CH
Vmax	2Vrms
SNR	>90dB
THD+N Ratio	<0.1%(V_max) 0.001%~0.01%(V_best)
Crosstalk	>80dB
Frequency Response	20Hz~20kHz ±0.5dB
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)

Connection	
Matrix	<p><b>Inputs:</b> 8 x HDMI Type A [19-pin female]</p> <p><b>Outputs:</b> 8 x HDMI Type A [19-pin female] 8 x HDBaseT port [RJ45] 8 x Coaxial audio [3.5mm Stereo Mini-jack] 8 x balanced analog audio [5-pin Phoenix connector]</p> <p><b>Controls:</b> 9 x IR IN [3.5mm Stereo Mini-jack] 9 x IR OUT [3.5mm Stereo Mini-jack] 1 x TCP/IP [RJ45] 1 x RS-232 [D-Sub 9]</p>
HDBaseT Receiver	<p><b>Input:</b> 1 x HDBT IN [RJ45, 8-pin female]</p> <p><b>Outputs:</b> 1 x HDMI Type A [19-pin female] 1 x AUDIO OUT [3.5mm Stereo Mini-jack]</p> <p><b>Controls:</b> 1 x IR IN [3.5mm Stereo Mini-jack] 1 x IR OUT [3.5mm Stereo Mini-jack] 1 x RS-232 [3-pin Phoenix connector] 1 x SERVICE [Mini-USB, Update port]</p>
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Matrix: 440mm (W) × 374mm (D) × 88.6mm (H) Receiver: 140mm (W) x 65mm (W) x 18mm (W)
Weight	Matrix: 6.54Kg, Receiver: 155g
Power Supply	AC 100 - 240V 50/60Hz
Power Consumption	125W (Max)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Relative Humidity	20~90% RH (non-condensing)
Resolution / Cable Length	
HDMI IN/OUT	5 meter @4K60 10 meter @4K30 15 meter @1080P60