

UHDS-01

The IDK UHDS-01 HDMI audio de-embedder/embedder supports HDCP 2.2 for HDMI output and 4K@60 having four times the resolution of full HD. The UHDS-01 HDMI converts the digital audio to analog audio, and it also can convert analog audio to digital audio in order to input HDMI signals.

■ Specification

■ Specification Item				Description
				1 input / HDMI, DVI 1.0 (HDCP 1.4 / 2.2) (*1) / HDR (*2) / 3D (*3) / xvYCC
Input	Video		Number / Signal	- TMDS single link
		HDMI / DVI		- TMDS clocks: 25 MHz to 300 MHz
				- Dot clocks: 25 MHz to 600 MHz
				- TMDS data rate: 0.75 Gbps to 18 Gbps
		Connector		1 female HDMI Type A
		Others		Color depth: 24 bit, 30 bit, 36 bit Deep Color (*5)
		Formats		VGA to 4K (*4)
		. o.maio		480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K (*4)
	Audio	Digital	Number / Signal	1 input / Multi-channel linear PCM up to 8 channels
				- Sampling frequency: 32kHz to 192kHz - Sample Size: 16bit to 24bit
				- Reference level: -20 dBFS
				- Max. input level: 0 dBFS
			Connector	1 female HDMI Type A
		Analog	Number / Signal	1 output / Stereo L/R unbalanced signals (*6)
				- input impedance: 24 Ω ,
				- Reference level: -10 dBu
				- Max. output level: +10 dBu
			Connector	1 RCA jack
	Video	HDMI / DVI	00111100101	1 output / HDMI, DVI 1.0 (HDCP 1.4 / 2.2) (*1) / HDR (*2) / 3D (*3) / xvYCC
			Number / Signal	- TMDS single link
				- TMDS clocks: 25 MHz to 300 MHz
				- Dot clocks: 25 MHz to 600 MHz
				- TMDS data rate: 0.75 Gbps to 18 Gbps
Output			Connector	1 female HDMI Type A
		Others		Color depth: 24 bit, 30 bit, 36 bit Deep Color (*5)
		Formats		VGA to 4K (*4)
				480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K (*4)
	Audio	Digital	Number / Signal	1 output / Multi-channel linear PCM up to 8 channels
				- Sampling frequency: 32kHz to 192kHz
				- Sample Size: 16bit to 24bit
				- Reference level: -20 dBFS
			0	- Max. output level: 0 dBFS
		Analog	Connector	1 female HDMI Type A
			Number / Signal	1 output / Stereo L/R unbalanced signals (*7)
				- Output impedance: 75 Ω,
				- Reference level: -10 dBu
			Connector	- Max. output level: +10 dBu
	L		Connector	1 RCA jack DDC2B
Plug & Play				(built-in EDID / EDID copied from monitors / can be selected from EDID of connected
				monitors)
				Built-in EDID: the maximum resolution can be selected.
Many Califactures Input			Input	1080p@60: up to 131.23 ft. approx. / 40 m, 4K@60: up to 39.37 ft. approx. / 12 m (*8)
			Output	1080p@60: up to 131.23 ft. approx. / 40 m, 4K@60: up to 39.37 ft. approx. / 12 m (*8)
				Audio A/D and D/A conversion
				Anti-snow (*9)
Functions		Contents		De-embedded audio from HDMI signal
				DDC buffer
				7 segment LED signal status check
				Connection Reset (*10)
				Key lock
		Power		100 - 240 VAC ± 10 %, 50 Hz/60 Hz ± 3 Hz
Others		Power consumption		About 8 Watts
		Dimensions		8.27 x 1.73 x 7.87'/ 210 (W) x 44 (H) x 200 (D) mm
				(EIA rack 1/2U size, projections are not included)
		Weight		3.31 lbs. approx. / 1.5kg
		Temperature		Operating: 32°F to 104°F / 0°C to +40°C
		<u>'</u>		Storage: -4°F to 176°F / -20°C to +80°C
		Humidity		Operating / Storage humidity: 20 % to 90 % (Non Condensing)

- Lip Sync, ARC, and HEC are not supported. CEC: Pass through between IN and OUT1
 HDR will be supported when you connect HDR supported corresponding sink device and select external EDID setting, or when you copy EDID of HDR supported sink device by selecting EDID copy setting. If the unit supports HRD, all output signals from the unit are HDR supported signals.

 3D will be supported when you connect 3D supported corresponding sink device and select external EDID setting, or when you copy EDID of 3D supported sink device by selecting EDID copy setting. If the unit supports 3D, all output signals from the unit are 3D supported signals.

 4K format: 24 Hz / 25 Hz / 30 Hz / 50 Hz (4:4:4) / 59.94 Hz (4:4:4) / 60 Hz (4:4:4) are supported.
- *3
- - 4K format: following color depth are supported.

 24 Hz / 25 Hz / 30 Hz: 24 bit, 30 bit, 36 bit (RGB, YCbCr 4:4:4, YCbCr 4:2:2)
 - 50 Hz / 59.94 Hz / 60 Hz : 24 bit, 30 bit, 36 bit (YCbCr 4:2:2, YCbCr 4:2:0)
 : 24 bit (RGB, YCbCr 4:4:4)

 Audio input is switch selectable between digital embedded audio and analog audio.

- Analog audio output supports only 2 channel linear PCM. The maximum cable distance is measured under following conditions:
 - 1080p@60: when IDK's AWG24 cable was used and signals of 1080p@60 24 bit / pixel (8 bit / component) was input or output.

 - 4K@60: when IDK's 18 Gbps supported cable was used and signals of 4K@60 24 bit / pixel (8 bit / component) was input or output.

 The maximum cable distance depends on the connected I/O devices. With some I/O combinations, and if you use cables of other manufacturer, video may be disturbed or may not be output even if signals are within the range mentioned above.
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- *9 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 had condition of the transmission line.
- noise has already occurred during startup or when it occurs due to a bad condition of the transmission line.

 *10 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 MSD's output. If other devices are connected between the MSD's output and sink device, this feature may be invalid.

■ Front and rear panels

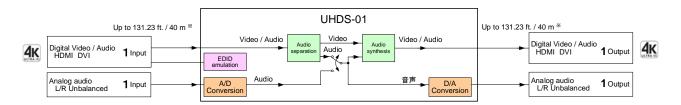


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4K@60, HDCP 2.2 supported HDMI audio De-embedder/Embedder

UHDS-01 Diagram and Features

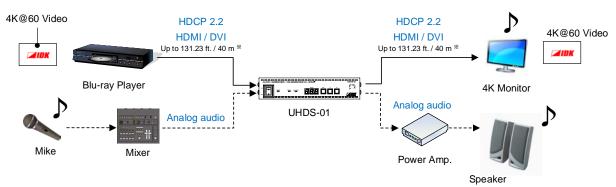
■ Diagram



※ Maximum cable distance

1080p@60: up to 131.23 ft. approx. / 40 m, 4K@60: up to 39.37 ft. approx. / 12 m (when IDK's 18 Gbps supported cable was used)

■ Sample connection diagram



Maximum cable distance

1080p@60: up to 131.23 ft. approx. / 40 m, 4K@60: up to 39.37 ft. approx. / 12 m (when IDK's 18 Gbps supported cable was used)

[Features]

■ Video

- Up to 4K@60 (4:4:4)
- HDCP 1.4 / 2.2
- · HDR
- 3D
- xvYCCMaximum input/output cable distance:
- 1080p@60: up to 131.23 ft. approx. / 40 m
- 4K@60: up to 39.37 ft. approx. / 12 m (using 18 Gbps supported High-Speed HDMI cable)
- · Anti-snow

■ Audio

- · Analog audio de-embedded
- · Analog audio embedded

■ Others

- EDID emulation
- DDC buffering
- · Seven-segment LED signal status check
- · Connection reset
- CEC pass through between IN and OUT

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