

# 4K HDMI Up/Down Scaler with Audio Extractor & HDCP 2.2 Converter

## VIDEO CONVERTERS

**Up-scale 1080p to UHD 4K (3840x2160) 4:4:4 60Hz for connection to 4K displays. Down-scale 4K (4096x2160 or 3840x2160) to 1080p to view 4K sources on an HD screen.**

- Up-scale 1080p to UHD 4K (3840x2160) up to 4:4:4 @60Hz – change an HD device like a Blu-ray player or cable box into a 4K video source.
- Down-scale 4K (4096x2160 or 3840x2160) to 1080p – view video from a 4K source on an HD screen.
- Supported frame rates: 24/25/30/50/60Hz
  - Does not support frame conversion - input and output must support the same frame rate.
- HDMI features supported:
  - HDMI 2.0 compliant.
  - x.v.Color, sYCC601 color, Adobe RGB Color and Adobe YCC601 color
  - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, and DTS
  - Bandwidth up to 18 Gbps.
  - Support for CEC (consumer electronic control) compatible devices.
  - 3D
  - Lip Sync
- HDCP 1.4 and 2.2 compliant.
  - Built-in HDCP 2.2 to HDCP 1.4 converter - play video from an HDCP 2.2 source on an HDCP 1.4 4K display.
- Extracts audio from HDMI input and outputs with 3.5mm stereo audio jack or Toslink.
- Supports HDMI cables up to 50 feet.
- Bypass non 1080p and 4K resolutions.
- Front panel EDID configuration button.
- Ideal for use with switches, splitters, matrixes, and any other application needing to accommodate both HD and 4K sources and displays.



**4K-HD-SCALER (Front & Back)**

- **1080p to 4K 4:4:4 60Hz Upscaler**
- **4K to 1080p Downscaler**
- **Audio De-Embedding**
- **HDCP 2.2 to HDCP 1.4 Converter**

The 4K HDMI Up/Down Scaler with Audio Extractor is designed to up-scale a 1080p HDMI signal to UHD 4K (3840x2160) 4:4:4 60Hz or down-scale 4K (4096x2160 or 3840x2160) to 1080p. The audio signal is duplicated on the digital optical S/PDIF Toslink audio output and 3.5mm stereo audio output for separate processing on an external amplifier or AV receiver.

## Specifications

### Connectors

- Female HDMI input/output connectors.
- One 3.5mm stereo audio output jack.
- One digital optical S/PDIF TOSLINK audio output jack.

### Video

- Input resolution: 480i to 4Kx2K (4096x2160 or 3840x2160)
- Output resolution: 480i to 4Kx2K (3840x2160)
- Supported frame rates: 24/25/30/50/60Hz
  - Does not support frame conversion – input and output must support the same frame rate.
- Signal rate: 18 Gbps
- HDMI 2.0 (up to 4K@60Hz 4:4:4) compliant
- HDCP 1.4 and 2.2 compliant

### Dimensions

- WxDxH (in): 5.63x3.26x1.02 (143x83x26 mm).

### Power

- Input: 110 or 220 VAC at 50 or 60 Hz via AC adapter. (US AC adapter included.)
  - Optional universal power plug adapters available (not included).
- Output: 5VDC, 1.5A
- Power consumption: 3W

### Environmental

- Operating temperature: 32 to 104°F (0 to 40°C)
- Storage temperature: -4 to 140°F (-20 to 60°C)

### Warranty

- Two years

### Cables

- Use HD-xx-MM cable to connect an HDMI source or display.
  - Max HDMI cable length: 50 feet.
- Cables not included.