### Specification

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input</strong></td>
<td></td>
</tr>
<tr>
<td>HDMI / DVI</td>
<td>4 inputs / HDMI Deep Color (*1) / DVI 1.0 (HDCP 1.4 / 2.2)</td>
</tr>
<tr>
<td>- HDR (*2)</td>
<td></td>
</tr>
<tr>
<td>- 3D (*3)</td>
<td></td>
</tr>
<tr>
<td>- x.v.Color</td>
<td></td>
</tr>
<tr>
<td>- TMDS single link</td>
<td></td>
</tr>
<tr>
<td>- TMDS clocks: 25 MHz to 300 MHz</td>
<td></td>
</tr>
<tr>
<td>- TMDS data rate: 0.75 Gbps to 18 Gbps</td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>4 19-pin HDMI Type A, female</td>
</tr>
<tr>
<td>Others</td>
<td>EDID emulation</td>
</tr>
<tr>
<td>Format</td>
<td>Dot clock 25 MHz to 600 MHz</td>
</tr>
<tr>
<td>- VGA to 4K</td>
<td>480i / 480p / 576i / 720p / 1080i / 1080p / 4K (up to 4K@60 (4:4:4))</td>
</tr>
<tr>
<td>Color depth</td>
<td>24 bit, 30 bit, 36 bit Deep Color (*4)</td>
</tr>
<tr>
<td><strong>Video</strong></td>
<td></td>
</tr>
<tr>
<td>HDMI / DVI</td>
<td>4 inputs / Multi-channel linear PCM up to 8 channels</td>
</tr>
<tr>
<td>- Sampling frequency: 32 kHz to 192 kHz</td>
<td></td>
</tr>
<tr>
<td>- Sample size: 16 bit to 24 bit</td>
<td></td>
</tr>
<tr>
<td>- Reference level: -20 dBFS</td>
<td></td>
</tr>
<tr>
<td>- Max. input level: 0 dBFS</td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>4 19-pin HDMI Type A, female</td>
</tr>
<tr>
<td>Format</td>
<td>Dot clock 25 MHz to 600 MHz</td>
</tr>
<tr>
<td>- VGA to 4K</td>
<td>480i / 480p / 576i / 720p / 1080i / 1080p / 4K (up to 4K@60 (4:4:4))</td>
</tr>
<tr>
<td>Color depth</td>
<td>24 bit, 30 bit, 36 bit Deep Color (*4)</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
</tr>
<tr>
<td>Digital</td>
<td>1 output / Multi-channel linear PCM up to 8 channels</td>
</tr>
<tr>
<td>- Sampling frequency: 32 kHz to 192 kHz</td>
<td></td>
</tr>
<tr>
<td>- Sample size: 16 bit to 24 bit</td>
<td></td>
</tr>
<tr>
<td>- Reference level: -20 dBFS</td>
<td></td>
</tr>
<tr>
<td>- Max. input level: 0 dBFS</td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>1 19-pin HDMI Type A, female</td>
</tr>
<tr>
<td><strong>Video</strong></td>
<td></td>
</tr>
<tr>
<td>HDMI / DVI</td>
<td>1 output / Stereo LR balanced/unbalanced signal</td>
</tr>
<tr>
<td>- Balanced signal</td>
<td></td>
</tr>
<tr>
<td>- Unbalanced signal</td>
<td></td>
</tr>
<tr>
<td>- Output impedance: 100 Ω</td>
<td></td>
</tr>
<tr>
<td>- Reference level: -9 dBu</td>
<td></td>
</tr>
<tr>
<td>- Max. output level: +16 dBu</td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>1 5-pin terminal blocks</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td></td>
</tr>
<tr>
<td>Digital</td>
<td>1 output / Stereo LR balanced/unbalanced signal</td>
</tr>
<tr>
<td>- Balanced signal</td>
<td></td>
</tr>
<tr>
<td>- Unbalanced signal</td>
<td></td>
</tr>
<tr>
<td>- Output impedance: 50 Ω</td>
<td></td>
</tr>
<tr>
<td>- Reference level: -10 dBu</td>
<td></td>
</tr>
<tr>
<td>- Max. output level: +10 dBu</td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>1 19-pin HDMI Type A, female</td>
</tr>
</tbody>
</table>

### Functions

- Built-in Web pages for all function settings
- Automatic input detection and switching
- DDC buffer
- Audio D/A conversion
- Last memory
- Anti-Snow (*5)
- Connection Reset (*7)
- Operation lock

### Plug & Play
- DDC2B (can be selected from Built-in EDID, Copied EDID, and EDID of connected monitor)
- Note: For Built-in EDID, the maximum resolution can be selected

### Maximum cable distance
- Digital Input: 1080p@60: 98.4 ft. (30 m) 4K@60: 39.4 ft. (12 m) (*5)
- Digital Output: 1080p@60: 98.4 ft. (30 m) 4K@60: 39.4 ft. (12 m) (*5)

### External control

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial control port</td>
<td>1 port / RS-232C</td>
</tr>
<tr>
<td>Connector</td>
<td>1 3-pin terminal block</td>
</tr>
<tr>
<td>LAN control port</td>
<td>1 port / 10Base-T (Auto Negotiation), 100Base-TX (Auto Negotiation), Auto MDI/MDI-X</td>
</tr>
<tr>
<td>Contact input port / Tally output</td>
<td>5 3-pin terminal blocks</td>
</tr>
<tr>
<td>Connector</td>
<td>Contact input: Non-voltage contact (make contact) input or voltage contact output (0 V to +5 V ± 5%)</td>
</tr>
<tr>
<td></td>
<td>Tally output: Open collector output (Rated DC 48 V 1 A)</td>
</tr>
<tr>
<td>Power output</td>
<td>1 3-pin terminal block</td>
</tr>
<tr>
<td></td>
<td>Pin1: DC 5 V (300 Ω current limitation)</td>
</tr>
<tr>
<td></td>
<td>Pin2: DC 5 V (75 Ω current limitation)</td>
</tr>
<tr>
<td></td>
<td>Pin3: DC 5 V (Rated 500 mA)</td>
</tr>
<tr>
<td>Power supply</td>
<td>Input: 100 - 240 VAC ±10%, 50 Hz / 60 Hz ±3 Hz</td>
</tr>
<tr>
<td></td>
<td>Output: 5VDC 3A 15 Watts (AC adapter is provided)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>About: 7 Watts</td>
</tr>
<tr>
<td>Dimensions</td>
<td>8.27” (W) x 1.73” (H) x 5.51” (D) (210 mm x 44 mm x 140 mm)</td>
</tr>
<tr>
<td></td>
<td>EIA half rack 1U size (projections are not included)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.4 lbs. (1.1 kg)</td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating: 32°F to 104°F (0°C to +40°C)</td>
</tr>
<tr>
<td></td>
<td>Storage: -4°F to +176°F (-20°C to +80°C)</td>
</tr>
</tbody>
</table>

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Front & Rear Panel
**Diagram**

- **IMP-400UHD**
  - **Digital video/audio**
  - **HDMI / DVI**
  - 4 Inputs
  - Up to 98.4 ft. (30 m)*
  - **Video-Audio switch**
  - **Video / Audio**
  - Up to 98.4 ft. (30 m)
  - **D/A conversion**
  - **Analog audio**
  - L/R Balanced / Unbalanced
  - 1 Output

*Maximum cable distance
- 1080p@60: up to 98.4 ft. (30 m)
- 4K@60: up to 39.37 ft. (12 m) when 18 Gbps high-speed transmission cable is used.

**Application Example**

- **4K Monitor**
  - **HDMI / DVI** up to 39.37 ft. (12 m)*
- **Power Amp.**
  - **Contact input**
  - **Tally output**
- **Controller**
  - **LAN**
  - **Desktop PC**
  - **HDMI / DVI** up to 39.37 ft. (12 m)*
- **Blu-ray Player**
  - **HDMI / DVI** up to 39.37 ft. (12 m)*
- **Blu-ray Player**
  - **HDMI / DVI** up to 39.37 ft. (12 m)*
- **Blu-ray Player**
  - **HDMI / DVI** up to 39.37 ft. (12 m)*

*Maximum cable distance
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Features

Video
- Up to 4K@60 (4:4:4)
- HDCP 1.4 / 2.2
- HDR / 3D / x.v.Color
- Maximum cable distance
  - 1080p@60: up to 98.4 ft. (30 m)
  - 4K@60: up to 39.4 ft. (12 m) (18 Gbps high-speed transmission cable is used)
- Anti-Snow

Audio
- Analog audio de-embedded

Control input
- RS-232C
- LAN
- Contact input

Others
- EDID emulation
- Built-in Web pages for all function settings
- Automatic input detection and switching
- DDC buffer
- Last memory
- Connection Reset
- Operation lock
- Locking mechanism for AC adapter

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