KIT-400 is a high-performance auto-switcher/scaler kit for 4K HDMI™ and VGA over long-reach HDBaseT. The kit includes the KIT-400T transmitter/switcher and the KIT-400R receiver/scaler. The KIT-400T transmitter converts the user-selected input signal into the transmitted HDBaseT signal. The KIT-400R receiver receives the HDBaseT signal, converts it to HDMI and up- or down-scales the picture to match the resolution of the HDMI monitor. KIT-400 extends video signals to up to 40m (130ft) over CAT copper cables at up to 4K@60Hz (4:2:0) 24bpp video resolution and provides even further reach for lower HD video resolutions.

FEATURES

**Simple and Powerful Maestro Room Automation** - Intuitive user interface enables you to fully automate your meeting room elements. Configure lights, shades, devices and more to be activated by an extensive range of triggers, including scheduling, input/output connectivity, routing, and button pressing. By minimizing user intervention, Maestro room automation saves meeting prep time and minimizes human error before presentations.

**HDMI Signal Extension** - HDCP 1.4 / 2.2, 4K60, CEC, xvYCC color (on input)

**PoC (Power over Cable) Enabled** - Choose to power only one of the units and power the other unit of the receiver/transmitter pair over the HDBaseT extension.

**Local Switching Control of 3 Local and 1 Remote Source** - Select from 4 sources, each with a dedicated selector button on the transmitter front panel, to output to an HDMI display: 2 HDMI inputs and 1 VGA input, with dedicated audio jack, on the transmitter side and an additional HDMI input on the receiver side.

**Audio De-embedding** - Output the HDMI audio to a balanced stereo output on the receiver side, and an unbalanced stereo output on the transmitter side.

**Bidirectional RS-232 Extension** - Serial interface data flows in both directions, allowing data transmission and device control.

**I–EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation.

**Easy Remote Device Control** - Control devices connected to KIT-400 from the user-friendly Kramer Aware interface on the KIT-400 embedded webpages. You can also access the interface using the Kramer Aware app on a compatible Kramer touch panel.

**Convenient Unit Control and Configuration Options** - Local control via front panel source and output switching buttons, DIP switches for configuring connection priority, and OSD menu. Distance control via user-friendly embedded web pages via Ethernet, Protocol 3000 API, RS–232 serial commands transmitted by a PC, touch screen system or other serial controller and relay switches.

**Easy, Cost-effective Maintenance** - Local firmware upgrade via USB connector.

**Easy and Elegant Installation** - Single cable connectivity for both HDBaseT signals and power. Compact MegaTOOLS™ fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter.
## TECHNICAL SPECIFICATIONS

### TRANSMITTER

**Inputs/Outputs**

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 HDMI: On female HDMI connectors</td>
<td>1 HDBaseT: On an RJ−45 connector</td>
</tr>
<tr>
<td>1 VGA: On a 15−pin HD connector</td>
<td>1 Unbalanced Audio: On a 3.5mm mini jack</td>
</tr>
<tr>
<td>1 Unbalanced Audio: On a 3.5mm mini jack</td>
<td></td>
</tr>
</tbody>
</table>

### RECEIVER

**Inputs/Outputs**

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 HDBaseT: On an RJ−45 connector</td>
<td>1 HDMI: On female HDMI connectors</td>
</tr>
<tr>
<td>1 HDMI: On female HDMI connectors</td>
<td>1 Balanced Audio: On a 5−pin terminal block connector</td>
</tr>
<tr>
<td>1 Control RS−232: On a 3−pin terminal block connector</td>
<td>1 Data RS−232: On a 3−pin terminal block connector</td>
</tr>
<tr>
<td>1 Remote Contact−Closure: On a 4 pin terminal block connector</td>
<td>1 Relay: On a 3−pin terminal block connector</td>
</tr>
<tr>
<td>1 Program USB: On a USB−A connector for firmware upgrade</td>
<td>1 Control RS−232: On a 3−pin terminal block connector</td>
</tr>
<tr>
<td>1 Data RS−232: On a 3−pin terminal block connector</td>
<td>1 Remote Contact−Closure: On a 4 pin terminal block connector</td>
</tr>
<tr>
<td>1 Relay: On a 3−pin terminal block connector</td>
<td>1 Program USB: On a USB−A connector for firmware upgrade</td>
</tr>
</tbody>
</table>

### Video

- **Max Data Rate (on the HDMI ports)**
  - KIT−400R: 18Gbps, KIT−400T: 10.2Gbps

- **Max Resolution (on HDMI ports)**
  - KIT−400R: 4K@60Hz (4:4:4), KIT−400T: 4K@60Hz (4:2:0)

- **HDMI Support**: 4K60, CEC, xvYCC color

- **Content Protection**: HDCP 1.4 and 2.2 (KIT−400R)

### Extension Line

- **Up to 40m (130ft)**: At 4K@60Hz (4:2:0)

- **Up to 70m (230ft)**: At full HD (1080p@60Hz)

### Extended RS−232

- **Baud Rate**: 300 to 115200

### Power

- **Source**: 12V DC

- **Combined Consumption of Both Units**
  - 2A (1 unit connected to 12V DC + 1 unit powered by PoC)

### User Interface

- **Control**
  - Input selection buttons, DIP−switches, remote contact−closure switches, relay switches. Kramer API via RS−232 serial commands transmitted by a PC, touch screen system or other serial controller, embedded web pages via LAN for configuration and control

- **Indicators**
  - Power, link, input selection LEDs

### Environmental Conditions

- **Operating Temperature**: 0° to +40°C (32° to 104°F)

- **Storage Temperature**: −40° to +70°C (−40° to 158°F)

- **Humidity**: 10% to 90%, RHL non−condensing
Enclosure

Size: MegaTOOLS®
Type: Aluminum
Cooling: Convection ventilation

STANDARDS COMPLIANCE

Safety CE
Environmental FCC, UL

Accessories
Included: 1 Power adapter, 8 rubber feet, 2 bracket sets