



# kramer

## KIT-401

4K Auto-Switcher/Scaler Kit over  
Long-Reach HDBaseT

| HDMI | Ethernet - RJ-45 | HDBaseT  
| 4K/60 UHD (4:2:0)



KIT-401 is a high-performance auto-switcher/scaler kit for 4K HDMI™ and VGA over long-reach HDBaseT. The kit includes the KIT-401T wall-plate transmitter/switcher and the KIT-400R receiver/scaler. The KIT-401T 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-401 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 Support** - HDCP 1.4 / 2.2. 4K60, CEC, xvYCC color (on input)

**PoC (Power over Cable) Enabled** - Power only one of the units. The other unit of the receiver/transmitter pair is powered via the HDBaseT extension

**2 Local and 1 Remote Source** - With auto-switching of the live source to the HDMI display on the output at the receiver. The transmitter has an HDMI and a VGA input, with a dedicated audio jack, and there is 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-401 from the user-friendly Kramer Aware interface on the KIT-401 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** - Installation is fast and cost-effective via a single CAT cable, providing both video signal and power (PoC) connections.

The transmitter compactly fits into standard US, EU and UK 2-gang in-wall box size, supporting decorative integration with room deployed user interfaces such as electrical switches. The compact MegaTOOLS™ fan-less receiver enclosure for dropped-ceiling mounting, or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter



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## TECHNICAL SPECIFICATIONS

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TRANSMITTER Inputs/Outputs	<p><b>INPUTS</b></p> <ul style="list-style-type: none"><li>1 HDMI: On A female HDMI connector</li><li>1 VGA: On a 15-pin HD connector</li><li>1 Unbalanced Audio: On a 3.5mm mini jack</li></ul> <p><b>OUTPUTS</b></p> <ul style="list-style-type: none"><li>1 HDBaseT: On an RJ-45 connector</li><li>1 Unbalanced Audio: On a 3-pin terminal block connector</li></ul> <p><b>PORTS</b></p> <ul style="list-style-type: none"><li>1 Ethernet: On an RJ-45 connector</li><li>1 Control RS-232: On a 3-pin terminal block connector</li><li>1 Data RS-232: On a 3-pin terminal block connector</li><li>1 Remote Contact-Closure: On a 5 pin terminal block connector</li></ul>
RECEIVER Inputs/Outputs	<p><b>INPUTS</b></p> <ul style="list-style-type: none"><li>1 HDBaseT: On an RJ-45 connector</li><li>1 HDMI: On female HDMI connectors</li></ul> <p><b>OUTPUTS</b></p> <ul style="list-style-type: none"><li>1 HDMI: On female HDMI connectors</li><li>1 Balanced Audio: On a 5-pin terminal block connector</li></ul> <p><b>PORTS</b></p> <ul style="list-style-type: none"><li>1 Control RS-232: On a 3-pin terminal block connector</li><li>1 Data RS-232: On a 3-pin terminal block connector</li><li>1 Remote Contact-Closure: On a 4 pin terminal block connector</li><li>1 Relay: On a 3-pin terminal block connector</li><li>1 Program USB: On a USB-A connector for firmware upgrade</li></ul>
Video	<p>Max Data Rate (on the HDMI ports) KIT-400R: 18Gbps, KIT-400T: 10.2Gbps</p> <p>Max Resolution (on HDMI ports) KIT-400R: 4K@60Hz (4:4:4), KIT-400T: 4K@60Hz (4:2:0)</p> <p>HDMI Support: 4K60, CEC, xvYCC color</p> <p>Content Protection: HDCP 1.4 and 2.2 (KIT-400R)</p> <p>KIT-400R Output Resolutions 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1200@60Hz RB, 2560x1600@60Hz RB, 1920x1080@60Hz, 1280x720@60Hz, 2048x1080@50/60Hz, 2560x1440@60Hz RB, 720x480p@60Hz, 720x576p@50Hz, 1280x720p@50/60Hz, 1920x1080p@24/25/30/50/60Hz, 2560x1080p@50/60Hz, 2K@24/25/30/50/60Hz, 4K@24/25/30/50/60Hz</p>
Extension Line	<p>Up to 40m (130ft): At 4K@60Hz (4:2:0)</p> <p>Up to 70m (230ft) At full HD (1080p@60Hz)</p>
Extended RS-232	Baud Rate 300 to 115200
Power	<p>Source: 12V DC</p> <p>Combined Consumption of Both Units 2A (1 unit connected to 12V DC + 1 unit powered by PoC)</p>
User Interface	<p>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</p> <p>Indicators Power, link, input selection LEDs</p>
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: Transmitter - 2-Gang wall-plate; Receiver - MegaTOOLS®

Type: Aluminum

Cooling: Convection ventilation

STANDARDS  
COMPLIANCE

Safety CE

Environmental FCC

Accessories

Included: 1 Power adapter, 4 rubber feet, 1 bracket sets, 1 white US-D size frame  
or 1 white EU + 1 UK size frame



## CONFIGURATIONS

KIT-401/US-D(W) 4K Auto-Switcher/Scaler Kit over Long-Reach HDBaseT - with white US-D size wall-plate frame

KIT-401/EU-80/86(W) 4K Auto-Switcher/Scaler Kit over Long-Reach HDBaseT - with white EU (80mm) and UK (86mm) size wall-plate frame

