VS-84UT is an all-in-one 4K@60Hz (4:2:0) audio-video presentation system with integrated range extension and an integrated control system master. The unit switches the video, embeds the audio, and outputs the signal to both HDMI™ and HDBaseT 2.0 with USB extension and PoE on the HDBaseT output ports. Outstanding audio support includes balanced stereo audio, unbalanced stereo audio, and de-embedded audio sources that output to embedded audio, balanced stereo audio as well as a power amplified audio output. VS-84UT includes a master room controller that can operate over Ethernet (LAN) with control ports that include: one bidirectional RS-485, four RS-232, four IR, four GPI/O, and eight relays to control a wide variety of AV devices. It includes a KNET™ connector interface that enables access to the master controller from auxiliary room controllers such as control keypads. The unit can also provide power to auxiliary room controllers via the KNET™ connectors. VS-84UT includes an Ethernet gateway to control and manage remote I/O ports. *****The control ports are for K-Config only and not compatible with Kramer Control.*****

**FEATURES**

**Versatile All-in-One Solution** - Provides a high-performance AV presentation matrix, powerful HDBaseT signal extender and fully featured, programmable master room controller in one unit

**High-Performance, Professional AV Matrix** - Switches 6 4K@60Hz (4:2:0) HDMI inputs and 2 HDBaseT 2.0 signals to 2 4K@60Hz (4:2:0) HDMI outputs and 2 HDBaseT 2.0 signals at up to 10.2Gbps (3.4Gbps per graphics channel) data rate. Signals are HDCP and DVI compliant with Deep Color, 3D, and 7.1 PCM. Includes active source & acceptor detection, auto-switching and auto-scanning of inputs, and a non-volatile memory that retains the last configuration, after switching the power off and then on again.

**Flexible Audio Extraction, Embedding and Control Options** - Includes 4 balanced stereo or 8 microphone audio inputs (selectable), 4 unbalanced stereo inputs, 2 line-out balanced stereo audio outputs and one audio amplified output. Features audio volume control, audio breakaway and AFV (audio-follow-video) operation support. Global mute for both video and audio outputs enables smooth integration of the audio system with a public announcement audio system in case of an emergency event.

**Powerful HDBaseT Extender** - Extends signals up to 100m at 4K @60Hz (4:2:0), up to 130m (430ft) at full HD (1080p @60Hz 24bpp). Featuring Kramer reKlocking™ and Equalization Technology that rebuilds the digital signal to travel longer distances. Note: For optimum range and performance, use recommended Kramer cables.

**Programmable Master Room Controller** - Connect multiple peripheral devices and control them using intuitive embedded web pages. Schedule actions and macros to automate device control.

**Multi-Client IP** - Simultaneous IP control communication with up to 15 IP control clients.

**Diverse and Abundant Control Port Formats** - Includes USB 1.1 & USB 2.0 (up to 127Mbps) via 2 USB type-A and 2 USB type-B ports, 6 IR Ports, 1 Ethernet port, 1 1G Ethernet port for HDBaseT tunneling, 1 K–NET™ connector, 1 RS-485 and 2 RS-232 bidirectional control ports, 4 IR emitter control ports, 4 GPI/O control ports, and 8 relay control ports. *****The control ports are for K-Config only and not compatible with Kramer Control.*****

**IP Port Extension and Control** - Ethernet port connects to control gateways for I/O port extending, and operating IP controlled devices. *****The control ports are for K-Config only and not compatible with Kramer Control.*****

**Provides Power and Control in a Single Connection** - HDBaseT outputs provide PoE (Power over Ethernet) to compatible devices. K–NET™ connector carries power along with control communication to either a master room controller or auxiliary control keypad. *****The control ports are for K-Config only and not compatible with Kramer Control.*****
Control Volume, Sensors, Locks, and Lighting - Using 4 general-purpose (GPI/O) control ports configured as digital input, digital output or analog input interface

Control Screens, Drapes, Shades, Blinds and IR sensors - Using 8 contact closure ports

Compatibility with Kramer Software Solutions - Kramer Network Compatible – Remote control and management over customer IP network. Kramer K-Config™ Compatible – Windows based control program with easy configuration and upload to a room controller over customer IP network

Advanced EDID Management per Input

Convenient Unit Control and Maintenance Options - User-friendly embedded web pages via the Ethernet, Protocol 3000 API, and RS-232 serial commands transmitted by a PC, touch screen system or other serial controller. Firmware Upgrade over Ethernet via a user-friendly software upgrade tool

Easy Installation - 19” enclosure for rack mounting a unit in a 2U rack space with included rack ears and universal 100–240V AC power connection
## TECHNICAL SPECIFICATIONS

### Inputs
- 6 HDMI On female HDMI connectors
- 2 HDBaseT On RJ−45/female HDMI connectors
- 4 Unbalanced Stereo Audio On 3.5mm mini jacks
- 4 Balanced Stereo Audio/8 Balanced Mic (Selectable) On 5−pin/3−pin terminal block connectors
- 2 IR On 3.5mm mini jacks for IR tunneling via HDBaseT
- 2 IR (room controller) On 3.5mm mini jacks

### Outputs
- 2 HDMI On female HDMI connectors
- 2 HDBaseT On female RJ−45 connectors
- 2 Balanced Stereo Audio On 5−pin terminal block connectors
- 1 Stereo Speaker Output On a 4−pin terminal block, 2x50W into 4Ω
- 2 IR On 3.5mm mini jacks for IR tunneling via HDBaseT

### Ports
- 1 RS-232 On a 3−pin terminal block for Serial Tunneling via HDBaseT
- 1 RS-232 On a 3−pin terminal block for Device Control
- 4 (2+2) USB On female USB−A connectors for USB Link Extension
- 2 USB On female USB−B connectors for USB Link Extension
- 1 Ethernet Control On an RJ−45 female connector for tunnelling data via HDBT ports
- 1 Ethernet 1G On an RJ−45 female connector for tunnelling data via HDBT ports
- 1 100BaseT Ethernet On an RJ−45 female connector for Device Control and LAN Extension
- 1 K-NET 5mm Mini-jack (room controller) On a 4−pin terminal block connector for learning
- 1 RS-485 (room controller) On a 3−pin terminal block connector
- 4 RS-232 Serial (room controller) On 3−pin terminal blocks
- 8 Relays (room controller) on 2−pin terminal block connectors (36V AC or DC, 2A, 60VAC maximum on non−inductive load)
- 4 GPI/O (room controller) On 2−pin terminal blocks

### Extension Line
- Up to 100m (330ft) at 4K@60Hz (4:2:0)
- Up to 130m (430ft) at Full HD (1080p @60Hz 36bpp)
- Up to 180m (590ft) HDBaseT Ultra Mode and Full HD (1080p @60Hz 24bpp)
- Compliance HDBaseT 2.0

### User Interface
- Indicators ON & STATUS LEDs
- Configuration Switches RS−485 Termination, RS−485 Termination, Programming

### Video
- Max. Resolution 4K UHD @60Hz (4:2:0) 24bpp resolution
- Max. Data Rate 10.2Gbps (3.4Gbps per graphic channel)
- Content Protection HDCP 1.4
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog Audio</td>
<td>Max Vrms Level 1&lt;br&gt;THD + Noise 0.03% @1kHz at nominal level</td>
</tr>
<tr>
<td>Extended USB</td>
<td>Host Compliance 1.1 and 2.0&lt;br&gt;Max Extended Line Rate Bandwidth 127Mbps (out of max 480 USB)&lt;br&gt;Max Devices 7&lt;br&gt;Max Hubs 2&lt;br&gt;Max Ports per Hub 8</td>
</tr>
<tr>
<td>Extended Ethernet</td>
<td>Max Transmission Bandwidth 100Mbps</td>
</tr>
<tr>
<td>Extended RS-232</td>
<td>Baud Rate 300 to 57600</td>
</tr>
<tr>
<td>Control RS-232</td>
<td>Baud Rate 115200</td>
</tr>
<tr>
<td>Supported PC Web Browsers</td>
<td>Windows 7 and Higher Internet Explorer (32/64 bit) version 10, Firefox version 30, Chrome version 35&lt;br&gt;MAC Chrome version 35, Firefox version 30, Safari version 7&lt;br&gt;Optimal Resolution 1920x1080&lt;br&gt;Minimal Resolution 1024 x 768d</td>
</tr>
<tr>
<td>Power</td>
<td>Source 100−240V AC, 50/60Hz&lt;br&gt;Consumption 200VA</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Size 19&quot; (W), 9.3&quot; (H), 2U, rack mountable&lt;br&gt;Type Aluminum&lt;br&gt;Cooling Fan ventilation</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Operating Temperature 0° to +40°C (32° to 104°F)&lt;br&gt;Storage Temperature -40° to +70°C (-40° to 158°F)&lt;br&gt;Humidity 10% to 90%, RHL non-condensing</td>
</tr>
<tr>
<td>Regulatory Compliance (Standards Compliance)</td>
<td>Safety CE, UL</td>
</tr>
<tr>
<td>Accessories</td>
<td>Included Power cord&lt;br&gt;Optional Recommended Kramer cables, see the CABLES tab</td>
</tr>
<tr>
<td>Product Dimensions</td>
<td>43.69cm x 30.60cm x 8.80cm (17.20&quot; x 12.05&quot; x 3.46&quot; ) W, D, H</td>
</tr>
<tr>
<td>Product Weight</td>
<td>3.9kg (8.6lbs) approx</td>
</tr>
<tr>
<td>Shipping Dimensions</td>
<td>52.60cm x 47.50cm x 18.40cm (20.71&quot; x 18.70&quot; x 7.24&quot; ) W, D, H</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>5.4kg (11.8lbs) approx</td>
</tr>
</tbody>
</table>