

# Pacific X-HDUT/R

4K Compliant HDBaseT Extender



# Pacific X-HDUT/R

STAND-ALONE / MODULAR

4K COMPLIANT HDBaseT EXTENDER

— HDMI / VGA / AUDIO / HID / IR



# Pacific X-HDUT/R Feature Highlights

**KVM extender** supporting HDBaseT; extends uncompressed HDMI video up to 4K UHD at 30 Hz, along with 8-channel audio, USB HID and IR up to 100 meters over standard CAT5e/6 cable.

**Modular enclosure** houses up to 6 independent extender cards for concurrent signal extension without degradation of image/video quality; stand-alone unit available for single source extension.

**Reliable signal extension** and monitoring of HDCP-encrypted contents; AC and DC dual redundant power supply (modular) ensure continuous operation for mission-critical applications.

**Analog signal extension;** VGA modular card converts VGA signal with analog stereo audio to HDMI for local and remote monitoring.

**Source loop out** with the transmitter (X-HDUT) allowing consecutively extending a signal to 12 display locations with each up to 100 meters apart.

**Scalable configurations** enhanced by high performance jitter cleaner assures pristine signal extension beyond one kilometer for up to 144 locations.

**Plug and play** for simple setup without additional driver or software; 1RU rack-mountable frame targets easy installation in server room and workstation.

**Wake-on-LAN** software utility supports booting or waking up hibernated distant computers over network.

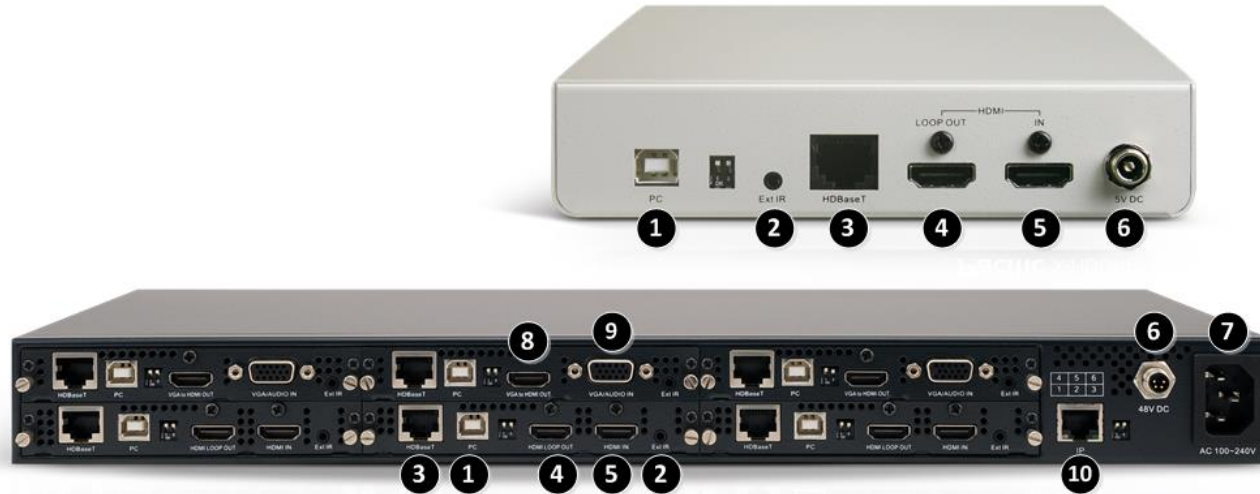
**Fully compatible with Avitech Sequoia Series;** remotely accesses and controls multiple source computers using one set of monitor, keyboard, and mouse.

# Pacific X-HDUT Overview (Stand-Alone and Modular)



- 1 LED indicators showing connection status of power, source/receiver, and HDCP encryption
  - For modular Pacific X-HDUT, any column of indicators shows the status of a particular extender card
- 2 Infrared signal transmitter to an IR-compliant device for wireless communication (e.g., DVD player)

# Pacific X-HDUT Overview (Stand-Alone and Modular)



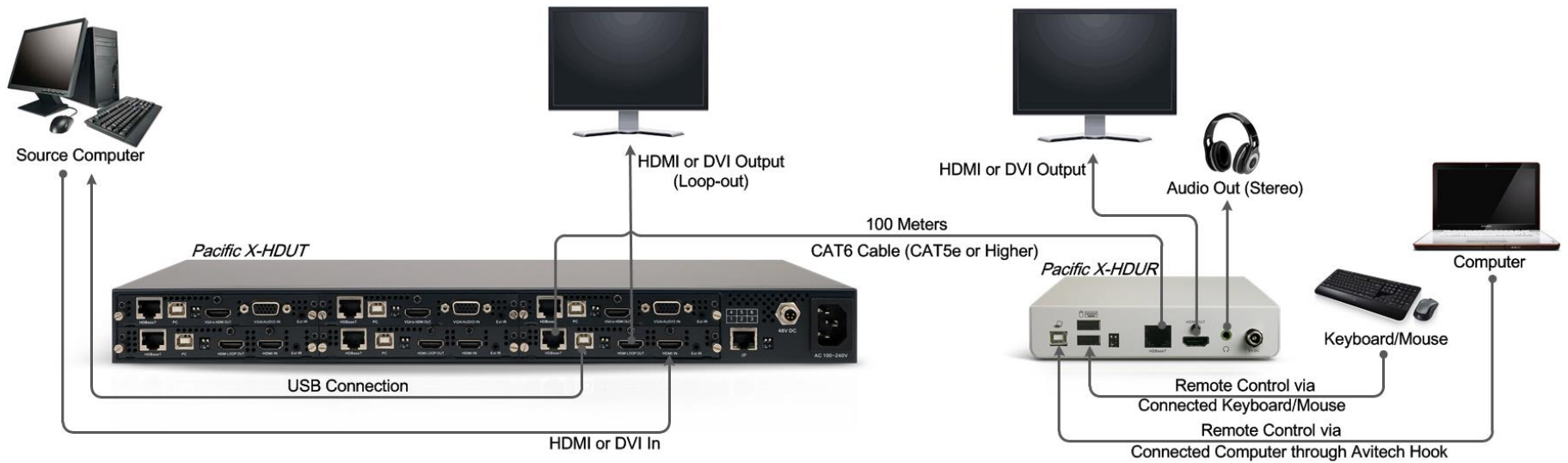
- 1 USB Type B port for source computer (or Sequoia Series) USB HID transmission
- 2 Mini jack connection to IR Blaster extension cable used in transmitting infrared signal to IR compliant device (e.g., Blue-ray player)
- 3 HDBaseT port to Pacific X-HDUR over CAT6 cable (CAT5e or higher)
- 4 HDMI loop out for local HDMI (with embedded audio) or DVI monitor
- 5 HDMI input port for taking HDMI (with embedded audio) or DVI video source signal
- 6 5V (stand-alone) / 48V (modular) DC power supply
- 7 100 to 240V AC power supply
- 8 VGA-to-HDMI loop out for local HDMI (with embedded audio) or DVI monitor
- 9 VGA input port for taking VGA video input (with analog audio when using VGA-Audio cable)
- 10 Ethernet port for communication with Windows-based Wake-on-LAN utility

# Pacific X-HDUR Overview



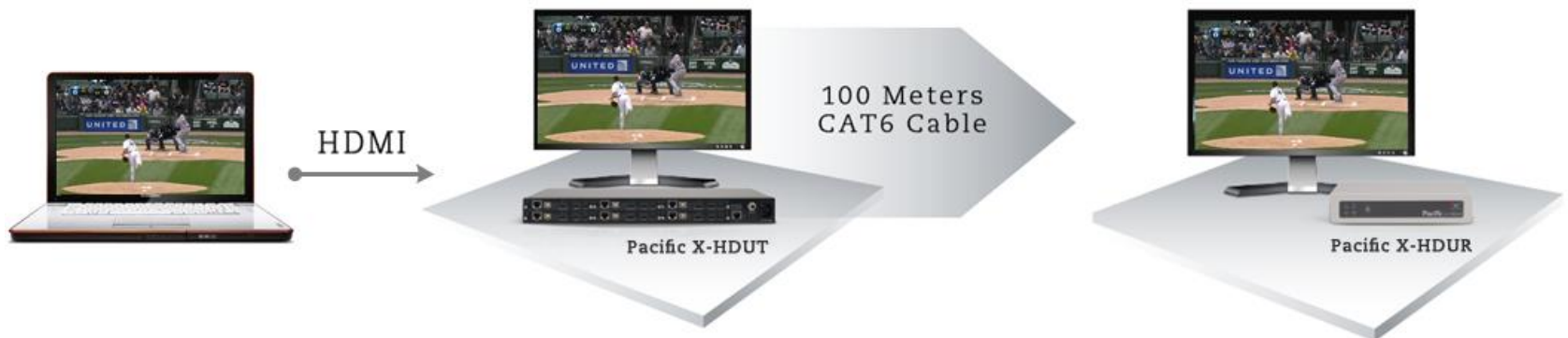
- 1 LED indicators for connection status of power, source/Transmitter, and HDCP encryption
- 2 Infrared signal receiver from an IR-compliant device for wireless communication
- 3 USB Type B port for computer running Avitech's proprietary Hook utility to control the source computer
- 4 USB Type A ports for USB mouse and keyboard connections
- 5 HDBaseT port for connection from Pacific X-HDUT over CAT6 cable (CAT5e or higher)
- 6 HDMI output for HDMI (with embedded audio) or DVI monitor
- 7 Audio signal output (stereo) for headphone or external speaker connection
- 8 5V DC power supply

# Pacific X-HDUT/R System Diagram



# Point-to-Point Configuration

Pacific X-HDUT enhances transmission of video signal (resolutions up to 3840x2160 at 30Hz, including 1080p/60Hz with 12-bit Deep Color) in conjunction with multi-channel embedded audio, USB HID and IR over CAT6 cable. With support of USB HID, user with the receiver (Pacific X-HDUR) can monitor and remotely control the source computer via a USB keyboard, mouse, or touch monitor up to 100 meters away.





# Multipoint-to-Multipoint Configuration

Accommodating up to 6 independent extender cards (combinations of HDMI and VGA input cards), modular Pacific X-HDUT allows transmission of lossless video, audio, as well as control signals from various source devices to multiple remote locations. This enables user to locate all critical computing hardware in a secured, clean, and cool environment while maintaining full user desktop experience at multiple workstations in quiet cubicles or consoles.



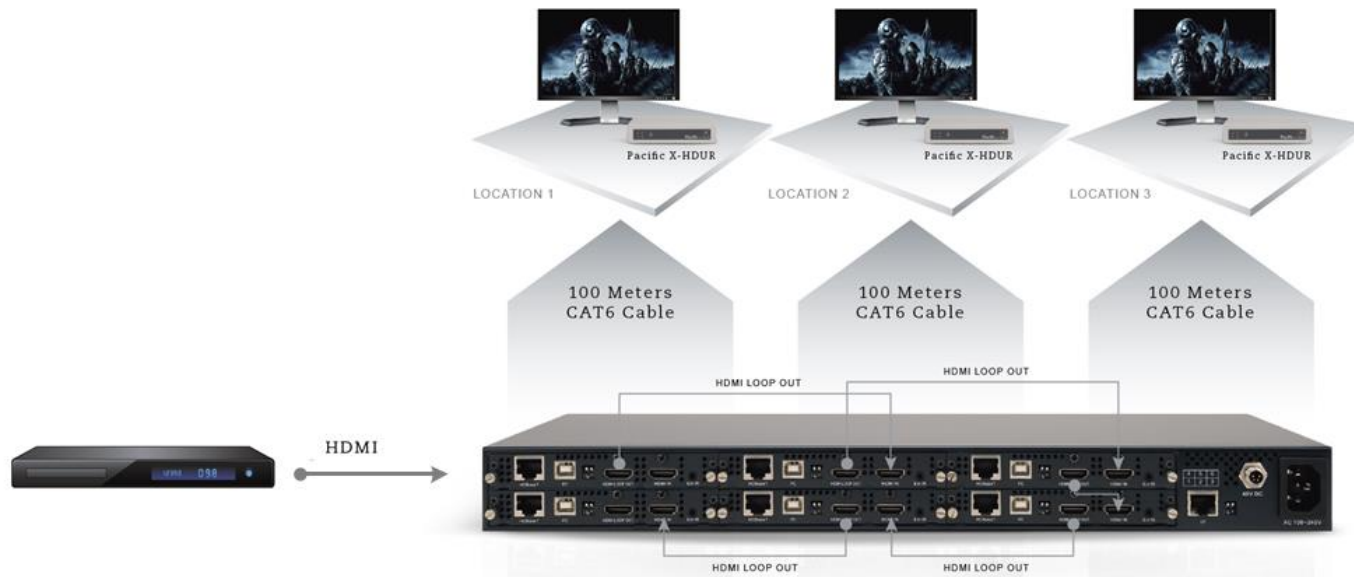
# Point-to-Daisy-Chain Configuration

Signal transmission can be further extended when connecting the output of the Pacific X-HDUR to a downstream Pacific X-HDUT. Various combinations of stand-alone and modular Pacific X-HDUT/R units can be cascaded up to 12 legs for transmission over 1000 meters without signal degradation. Each transmitter unit's HDMI loop out can be employed for local monitoring or public display applications.



# Point-to-Multipoint Configuration

In addition to connecting a monitor for local use, Pacific X-HDUT's HDMI loop out can be used as an input source for the next transmitter. This allows a source signal to be distributed and extended independently to corresponding receivers. A single source signal can be sequentially looped and transmitted up to 12 receivers at different locations 100 meters away in parallel.



# Signal Extension and Distribution

Cascaded Pacific X-HDUT/R is capable of extending a single 4K source signal up to 144 locations. This particular attribute facilitates signal distribution up to 1200 meters from one host to many without compromising image quality making Pacific X-HDUT/R an ideal solution for signage display widely employed in multitude of diverse environments.



# KVM Extension with Multiviewing

Pacific X-HDUT/R is fully compatible with Avitech's Sequoia Series, which is a 4-input-1-output multiviewer integrated with KVM switcher. It enables user at the receiver to simultaneously monitor up to 4 image/video sources across facilities on a single screen. Using only one set of keyboard and mouse, or directly tapping on the touch-screen monitor, user can freely switch and gain full control of any remote computer with no latency.





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