Avocent® LV4000 Series

Features

- **Plug and play**
  The LV4000 Series extenders are delivered in a zero config state so you can plug them in and start working with them straight away. There's no need for drivers or software to be installed.

- **USB 2.0**
  Enables connection of any USB human interface device from mice and keyboards through to graphics tablets, touchscreens, jog shuttles, joysticks, 3D explorers and mass storage devices. Full speed (12Mbps) isochronous devices such as headsets are supported.

- **Analog audio**
  Stereo CD quality (stereo channel 16 bit sampled at 44.1kHz) is available to transfer audio from local to remote for line out.

- **Digital video**
  Single or dual screens at 1920 x 1200 @ 60Hz maximum resolution.

- **Rack options**
  Both transmitter and receiver units can be used stand-alone or up to 16.

The Avocent® LV4000 high performance KVM (Keyboard, Video and Mouse) extenders enable you to locate your critical computing hardware in a secure and temperature controlled environment, away from the user work station environment, while maintaining the same user experience.

The LV4000 Series can transmit a single or two single Link DVI video streams, USB 2.0 and analog audio over a single or multiple CATx cables. The LV4000 series has been designed to provide industry-leading video clarity, compatibility and high rack densities.

Perfect digital video, real time control

The LV4000 Series extenders use an uncompressed system whereby every pixel of every frame is sent without loss. HDMI video and audio can be extended with the correct adapter cable, although HDCP and CEC are not supported.

50 meters over a single CATx cable

Video, USB 2.0 (Low and Full speed) and audio all pass along a single cable, providing up to 50m (150ft) of extension. The second video head requires a separate CATx cable.

Power efficiency

The LV4000 Series extenders are designed to be highly power efficient and run with the minimum of input. In fact, the transmitter unit is so energy efficient that it can be powered solely from the host computer USB connections.

EDID management

The system has intelligent EDID management to allow the true characteristics of the monitor to be passed back to the computer.

Technical Specifications

Hardware compatibility	All computers with DVI-D, USB and audio requirement dependent.
DVI-D Interface – digital only	The system supports resolutions to a maximum of 1920 x 1200 @ 60Hz per head.
USB 2.0 Low and Full speed	Transparent USB 2.0 (Low and Full speed) that supports HID and mass storage devices to a maximum of 50 meters.
Audio	The system delivers analog stereo audio (Line Out). 8 channels of HDMI audio are supported with sample sizes of 16, 20 or 24 bits at 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, or 192kHz (simultaneously with the jack audio).
Computer connections Transmitter (TX)	1 or 2 x DVI-D, audio 3.5mm in, USB type B, 1 or 2 RJ45.
Computer connections Receiver (RX)	1 or 2 x DVI-D, audio 3.5mm out, USB type A x 4, 1 or 2 RJ45.
Operating temperature	0 to 40ºC / 32 to 104ºF
Approvals	CE, FCC, UL
Physical Design	Compact case, robust metal construction in single and dual head models **Dimensions for Single Head Model** 120mm / 4.7" (w) x 75mm / 3"(d) x 26mm / 1" (h) 320g / 0.7 lb. **Dimensions for DUAL Head Model** 120mm / 4.7" (w) x 75mm / 3"(d) x 48mm / 2" (h) 500g / 1.1 lb.
Power	**Receiver** 2.5mm DC jack (power adapter included),100-240VAC 50/60Hz, 0.4A, input to power adapter, 5VDC 12.5W output from power adapter. **Transmitter** Powered from the desktop computer's USB connections. Optional 2.5mm DC jack (power adapter not included).
Important extension distance details	Recommended cables are CAT7 shielded foiled twisted pairs: Daetwyler 7702 Flexible patch cable Daetwyler 7120 Bulk cable Category 5 (or better) shielded twisted pair cable must be used to connect the local and remote units in order to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.
Res (@60Hz) Cable Patches	1920 x 1200 CAT7 @ 50m 1920 x 1200 CAT6a @ 50m 1920 x 1200 CAT5e @ 50m 1920 x 1200 CAT7 @ 40m

Ordering Details

Part Number	Description
LV4010P	LongView single DVI,USB,audio,CATx 50M
LV4020P	LongView dual DVI,USB,audio,CATx 50M
PSC0006	Power Supply for LongView 3000/4000 unit
RMK-86	RMK-84 1 module mount plate
RMK-87	RMK-84 2 module mount plate
RMK-84	LV3000/4000 19in 2U chassis kit