

HD Video, Audio, RS232, and IR Over a Single Multimode Fiber

The LightSpider is an innovative fiber optic point to point bridge for long distance transport of HDMI, audio, RS232 serial data, and infrared signals. It can carry this set of signals up to 1,000 feet (305 meters) over a single strand of low cost multimode fiber cable.

The LightSpider is able to communicate all of these signals over a single strand of either 62.5/125 micron or 50/125 micron multimode fiber cable. No additional Cat5 or additional fibers are required to achieve full HD with HDCP encryption and EDID communications.

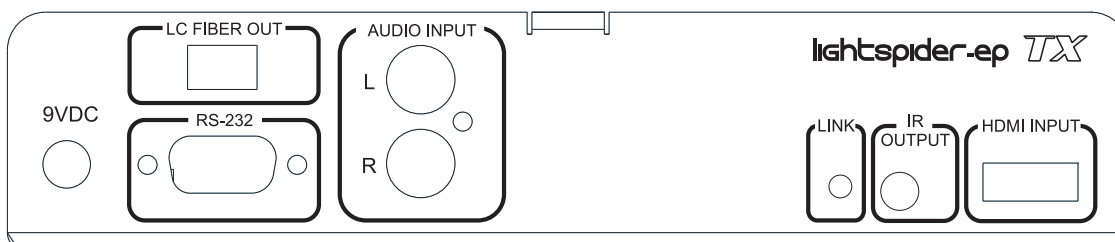
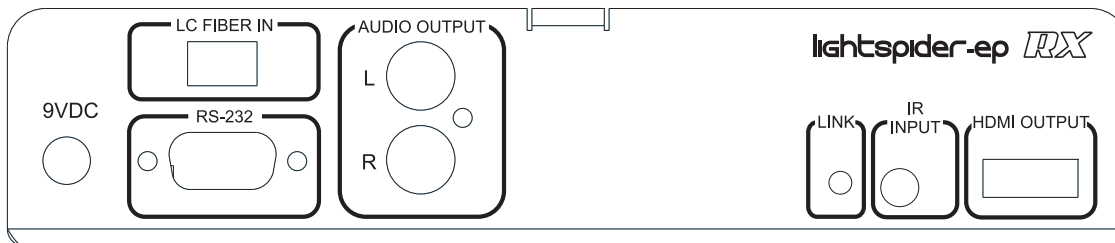
Features and Benefits

- * Go up to **1,000 feet** without any concern of signal degradation, HDCP dropouts and errors, or video 'sparkles'.
- * Up to **1080p 60Hz at max length** - no derating of video capabilities as your cable gets longer.
- * **Full EDID communications** - EDID display information is carried all the way through the system, so no need to 'copy' EDID or worry about it getting erased.
- * **RS232 serial** (bidirectional)- allows remote control of any display that has an RS232 control port. Great for power on/off control of projectors and flat panels.
- * **IR backlink** - allows the end user to use a universal IR remote at the display, and transport those IR codes back to the equipment.
- * **Auxiliary analog audio** - use for local amp w/in wall speakers, or support audio to the display when audio over HDMI is not available.
- * **Industry standard LC** fiber connector. Use with off the shelf premade fibers, or prewire and terminate in the field.



Specifications

- * Power Inlet: 9VDC with supplied power supply
- * Input Voltage: 90-240VAC 50-60Hz, 9W typical
- * Dimensions: Width: 8.6" (includes mounting flanges), Height: 1.6", Depth 4.9"
- * Weight: 0.9 lbs each unit
- * Digital audio modes over the HDMI port: PCM, LPCM, DD 5.1, DTS, up to 7.1 channels LPCM audio
- * Aux analog stereo transported at 96KHz/24bit
- * Aux audio bandwidth: 20 Hz to 20KHz at +/- 0.5dB
- * Video modes: 480p to 1080p 50/60Hz HDTV, up to 1920x1200 60Hz PC/DVI video
- * RS232 serial: 300 to 115.2K baud
- * Infrared backlink (cable kit optional): 38-40KHz
- * Fiber spec: LC to LC multimode 'simplex' cable; recommend 62.5/125 micron for 0-500 feet, 50/125 micron from 500 to 1,000 feet.



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