

# FIBER-OPTIC AV EXTENDERS FROM HALL RESEARCH



**MULTI-INPUT HDMI AND VGA PLUS AUDIO  
& RS-232 EXTENDER ON JUST ONE FIBER**

**HR-733**

**HDMI AND RS-232 EXTENDER ON JUST ONE FIBER**

**HR-731**



**VGA PLUS AUDIO EXTENDER ON JUST ONE FIBER**

**HR-722A**

**MICROPHONE AND LINE-LEVEL  
AUDIO EXTENDER ON JUST ONE FIBER**

**HR-101**



**CONTROL**

**SCALE**

**EXTEND**

**SWITCH**

**SPLIT**

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## Fiber-Optic Video Extenders: Description

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### Multi-input HDMI and VGA plus Audio & RS232 Extender on just one Fiber

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The **HR-733** extends uncompressed HDMI video, VGA, audio, and bi-directional RS-232 up to 1000 m over just one multi-mode fiber optic cable. It accepts 2 HDMI or DVI inputs and 1 VGA or YPbPr with corresponding audio (via 3.5mm L/R stereo or S/PDIF TOSLINK). Analog input is converted to HDMI and automatically scaled to the native resolution of the remote display. The receiver simply connects to the display using an HDMI cable (DVI connection requires adapter cable). The unit is fully HDCP compliant and supports EDID pass-through from the remote display to the selected source. Virtually all PC and HDTV resolutions are supported.

### HDMI and RS232 Extender on just one Fiber

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The **HR-731** is a kit of Sender and Receiver modules to extend HDMI and bi-directional RS-232 up to 1 Km (3280 ft) on a single multi-mode cable. The unit is fully HDCP compliant and supports HDMI 1.4 deep-color and 3D. EDID pass-through from the remote display to the source guarantees trouble free operation. Virtually all PC (DVI) and HDTV resolutions are supported.

### VGA plus Audio Extender on just one Fiber

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The **HR-722A** Fiber Optic Communication System allows direct connection of VGA computers for signal transmission over Fiber Optic cable spanning distances to 2500 ft (0.75 kilometers) on multi-mode or 35 kilometers on single-mode fiber (approximate based on loss budget). The HR-722A features excellent picture quality with bright and sharp images. Gone are the usual signal degradation and smearing of coax or twisted pair video transmission at extended lengths. Signal integrity is also maintained through fiber optic cables' immunity to electrical interference and cross talk. The lightweight and small diameter fiber reduces installation time, particularly since only 1 fiber is needed. Fiber optic cable also has certain intrinsic benefits for installation success including resistance to electromagnetic interference (EMI), lightning, and the elimination of ground loops through electrical isolation.

### Microphone and Line-Level Audio Extender on just one Fiber

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The **HR-101** kit is comprised of a Sender and a remote Receiver. The Sender is an ultra low-noise microphone preamp with Stereo line level mix (XLR and 3.5mm inputs). Local outputs include analog Stereo line-level on 3.5mm jack as well as Digital SPDIF on an RCA. The front panel includes a color LED bar for VU indication, mic gain adjustment knob, and a switch for injecting phantom power in the XLR input. The sender has an ST fiber optic connector that can connect to a corresponding receiver using one multi-mode cable upto 1,525 m (5,000 ft) away. The compact Receiver provides both Stereo Analog and Digital SPDIF outputs.

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