



The Intelix HDMI-F balun allows a HDMI (high definition multimedia interface) signal to be transmitted via cost-effective twisted pair (Cat 5) cable. The Intelix HDMI-F supports standard HDTV resolutions and is HDCP compliant. Typical applications include home theater systems, classroom and educational facilities, corporate and boardroom audio-visual systems, and digital signage.

Two individual runs of twisted pair cable—one run of shielded and one run of unshielded—are required when installing the HDMI-F balun. The video signal should be transmitted on the shielded twisted pair. In environments susceptible to high electromagnetic interference, two shielded twisted pair cables should be used.

The Intelix HDMI-F contains both a send and receive balun, mounting plates, an HDMI cable, and two power supplies. In most applications, only one power supply is required; however, depending on the circuitry of the input/output devices, the second power supply may be necessary.

Technical Specifications

Maximum Distance*	150 feet	Power	External 5 VDC; powered on either end
Video Amplifier Bandwidth	1.65 Gbps	Max Power Consumption	15 watts max
Supported Video Resolutions	480p, 720p, 1080i, 1080p, 1920x1200	Temperature	Operating: 32 to 131 F (0 to 55 C) Storage: -4 to 185 F (-20 to 85 C) Humidity: up to 95%
Single Link Range	1080p/1920x1200	Dimensions	3.4" x 3.25" x 1.25" <i>(send and receive balun)</i>
Vertical Frequency Range	60 Hz.	Shipping Weight	3 lbs.
Input Video Signal	1.2 volts p-p	Ordering Information	<i>HDMI-F</i> , includes both send and receive baluns, two power supplies, one 6' HDMI cable, and mounting plates
Input DDC Signal	5 volts p-p (TTL)	Warranty	Two years
Connectors	<i>Send balun:</i> One (1) type A HDMI connector to two (2) shielded RJ45 <i>Receive balun:</i> One (1) type A HDMI connector to two (2) shielded RJ45		
Cabling	Two structured cabling runs required: shielded Cat 5 recommended for the video signal, unshielded Cat 5 suitable for the DDC signal		

Note: The Intelix HDMI-F conforms to HDMI and HDCP specifications. Intelix does not guarantee operation with devices that do not conform to these specifications. The Intelix HDMI-F passes HDCP signals and does not manipulate them in any way.

*Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Intelix specifications are based on straight-through cabling with standard-grade Cat 5.

Example System: The Intelix HDMI-F connects a remote satellite receiver to a television over two runs of Cat 5, one shielded and one unshielded. The system is powered at the send balun.

