VGA2-HR Installation Guide

The Intelix VGA2-HR extends a computer video signal over a single twisted pair cable. The VGA2-HR supports computer video resolutions up to UXGA (1600 x 1200) to a maximum distance of 107m (350').

Dipswitches on the Transmit balun allow for Built-in EDID presets of common resolutions (1024x768 and 1280x800) and EDID copy mode. In EDID copy mode the Receive balun transmits the EDID of the remote display back to the Transmit balun for custom EDID storage.

The Receive balun has dipswitches for skew compensation as well as a trim pot for brightness.

Installation Instructions

1. Turn off power and disconnect VGA cables from computer and display.

2. Connect a VGA cable between the display and the receiver (VGA2-HR-R).

3. Connect twisted pair cable between the transmitter (VGA2-HR-S) and the receiver (VGA2-HR-R). Ensure T568B straight-thru wiring.

4. Connect the included power supply to the transmitter.

5. Connect a VGA cable between the computer and the transmitter (VGA2-HR-S).

6. Power on attached audio/video devices.

Dipswitches

Transmiter (VGA2-HR-S) – EDID Modes

1	2	Function Description
	Down	EDID Copy Mode On
Down	Up	1280 x 800 (WXGA)
Up	Up	1024 x 768 (XGA)

Reciever (VGA2-HR-R) – Skew Adjustment

Length	Dipswitches
0-8m (0-25')	All dips Off
9-30m (26'-100')	Dip 1 On
31-60m (101'-200')	Dip 2 On
61-90m (201'-300')	Dip 3 On
91m+ (301'+)	Dip 4 On

EDID Copy Instructions

1. Set dipswitch 2 down.
2. Follow "Installation Instructions".
3. Press the EDID copy button.
4. Wait for flashing LED and a "click" noise. EDID copy is completed.

*Note: The VGA2-HR will only change EDID modes after completely disconnecting both power and VGA cabling.

Twisted Pair Wiring - Use T568B wiring for Cat5e/6 connection between send and receive units.

T568B PINOUT

1 2 3 4 5 6 7 8

1 = ORANGE / WHITE
2 = ORANGE
3 = GREEN/WHITE
4 = BLUE
5 = BLUE/WHITE
6 = GREEN
7 = BROWN/WHITE
8 = BROWN

THIS IS A TOP VIEW - ENSURE THE CONNECTOR TAB IS FACING DOWN

Troubleshooting

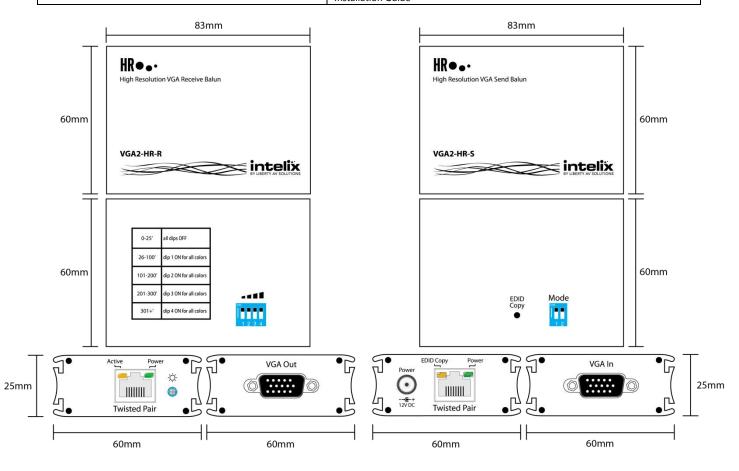| Symptom	Possible Solutions
No signal Active LED is off	Verify that both ends of the twisted pair cables use T568B crimp pattern. Verify VGA cables and source and destination VGA ports are operational.
No signal	Verify the power supply is connected to the send balun. Verify the power LEDs on both the send and receive units are brightly illuminated.
Unusual colors or blurry video	Adjust dipswitches for the length of you UTP cable. Adjust the brightness on the receive balun.

Technical Specifications

I/O Connections

VGA	HD15 Female
Twisted Pair	Shielded RJ45 Female
12V DC Power	5.5 mm Outside Diameter, 2.1 mm Inside Diameter Barrel

Supported Video

Maximum Video Compatibility at 106 m	UXGA (1600 x 1200)
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	1.2 volts p-p

Chassis and Environmental

Enclosure	Painted steel
Dimensions	83mm x 60mm x 25mm (3.27 in. x 2.36 in. x 0.98 in.)
Shipping Weight	0.61kg (1.35 lbs.)
Operating Temperature (Environment)	0° to +40° C (+32° to +104° F)
Operating Temperature (Chassis)	26° C (79° F) (S); 30° C (86° F) (R)
Operating Humidity (Environment)	20% to 90%, Non-condensing
Storage Temperature (Environment)	-10° to +60° C (+14° to +140° F)
Storage Humidity (Environment)	20% to 90%, Non-condensing

Power, ESD, and Regulatory

Maximum Power Consumption	2.5 watts
Power Supply	12vDC / 1A
ESD Protection	16kV
Regulatory	CE, RoHS

Other

Standard Warranty	2 Years
Diagnostic Indicators	Active video signal, EDID copy and power LEDs
Included Accessories	VGA cable, Power Supply, Adjustment screwdriver, Mounting brackets and Installation Guide

![intelix DIGITAL & ANALOG DEVICES]

8001 Terrace Ave.
Suite #201
Middleton, WI 53562

Phone: 608-831-0880
Toll-Free: 866-4-MATMIX
Fax: 608-831-1833