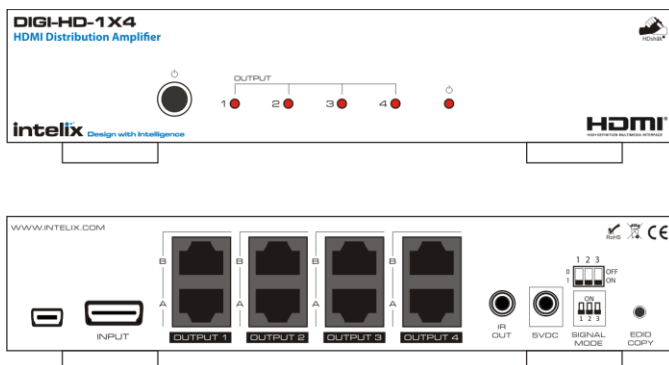


DIGI-HD-1X4 Installation Manual



The Intelix **DIGI-HD-1X4** seamlessly distributes one HDMI input to four twisted pair outputs using built-in twisted pair extenders to provide HD video at distances up to 300 feet when used with compatible Intelix twisted pair receivers, such as the DIGI-HD-UHR2-R, DIGI-HD-IR2-R, and DIGI-HD-XR.

When distributing HDMI audio and video over twisted pair cabling, the **DIGI-HD-1X4** requires a single Cat 5e or Cat 6 cable.

When distributing HDMI audio and video *and* IR over twisted pair cabling, the **DIGI-HD-1X4** requires two Cat 5e or Cat 6 cables. IR is transmitted from the display location, through the compatible Intelix twisted pair receiver, over the twisted pair cable, and out of the **IR OUT** port on the **DIGI-HD-1X4** to the source equipment.

The **DIGI-HD-1X4** supports 3D, is HDCP compliant, and features proprietary Intelix HDshāk processing, including bandwidth limiting and custom EDID configuration and emulation.

Compatible Devices

Compatible Receivers: DIGI-HD-UHR2-R, DIGI-HD-UHR2-WP-R, DIGI-HD-IR2-R, DIGI-HD-IR3-WP-R, DIGI-HD-XR

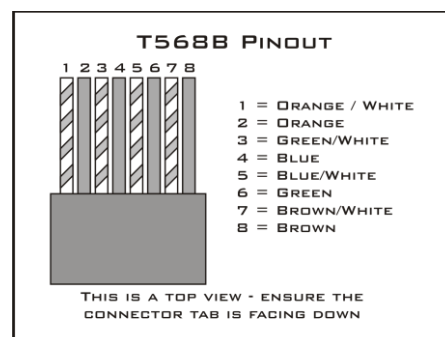
Maximum Recommended Distances

	1080p	1080i	720p	576i/p	480i/p
Shielded Cat 6a	150'	300'	300'	300'	300'
Cat 6	110'	220'	220'	220'	220'
Cat 5e	100'	200'	200'	200'	200'

Important notice:

- Do not attempt to disassemble or alter the extender housing. There are no user-serviceable parts inside the unit. Doing so will void your warranty.
- To minimize the possibility of equipment damage from electrostatic discharge (ESD), all source and destination equipment must be powered off during installation.
- Do not connect the extender to a telecommunication outlet wired to unrelated equipment. Doing so may damage the unit or any connected equipment. Ensure all connected twisted pair cabling is straight-through (point-to-point).
- Allow proper ventilation to reduce the risk of thermal failure.

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



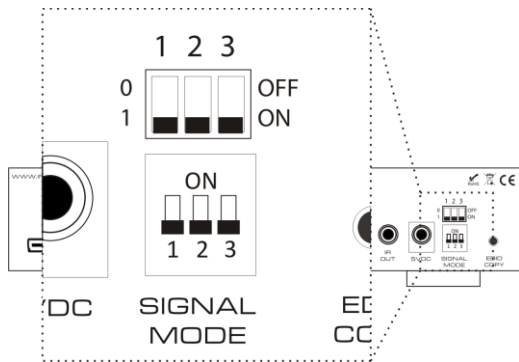
Instructions

1. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
2. Adjust DIP switches for desired mode.
3. Connect all twisted pair cables (ensure T568B straight-thru wiring).
4. Connect HDMI cable between source and DIGI-HD-1x4 input.
5. Connect power supplies.
6. Power on attached audio/video devices.

Front Panel Indicators

When the unit is in a Dual UTP Mode, LEDs on the front panel indicate connection with an attached receiver. When the unit is in Single UTP Mode, LEDs on the front panel will all be lit to indicate that video is being sent out all outputs.

DIP Switch Settings



DIGI-HD-1X4 DIP Switch Positions

SW 1	SW 2	SW 3	Mode
off	off	off	Dual Twisted Pair Mode – 1080p – stereo audio The distribution amplifier is preset with EDID for 1080p video and PCM stereo audio.
off	on	off	Dual Twisted Pair Mode – 1080p – 5.1 audio The distribution amplifier is preset with EDID for 1080p video and Dolby Digital 5.1, DTS 5.1, and PCM stereo audio.
on	off	off	Dual Twisted Pair Mode – EDID copy The distribution amplifier uses custom EDID copied from outputs.
on	on	off	Dual Twisted Pair Mode – 1080i – stereo audio The distribution amplifier is preset with EDID for 1080i video and PCM stereo audio.
off	off	on	Single Twisted Pair Mode – 1080p – stereo audio The distribution amplifier is preset with EDID for 1080p video and PCM stereo audio.
off	on	on	Single Twisted Pair Mode – 1080p – 5.1 audio The distribution amplifier is preset with EDID for 1080p video and Dolby Digital 5.1, DTS 5.1, and PCM stereo audio.
on	off	on	Single Twisted Pair Mode – EDID copy The distribution amplifier uses custom EDID copied from outputs.
on	on	on	Single Twisted Pair Mode – 1080i – stereo audio The distribution amplifier is preset with EDID for 1080i video and PCM stereo audio.

Copying Display EDID

1. Disconnect the DIGI-HD-1X4 from the source device and extenders.
2. Disconnect the receiver from the destination device that you desire to copy from.
3. Set transmitter DIP switches to EDID Copy mode (On, Off, Off for Dual UTP extenders, or On, Off, On for Single UTP Extenders)
4. Connect the DIGI-HD-1X4 Input to the destination device input via an HDMI cable.
5. Connect the 5VDC power supply to the DIGI-HD-1X4 and turn the device on with the power button.
6. Press the “EDID Copy” button on the DIGI-HD-1X4.
7. The *Output* LEDs will flash for 2-3 seconds then remain solid. The EDID signals have been copied and stored.
8. Disconnect the DIGI-HD-1X4 from the destination.
9. Reconnect the DIGI-HD-1X4 and extenders following normal installation procedures.

Troubleshooting

Symptom	Possible Solutions
No signal	Verify that both ends of the twisted pair cables use 568B crimp pattern.
Status LED is off	Verify HDMI cables and source and destination HDMI ports are operational.
No signal	Verify the power supplies are connected to both the DA and receive baluns. Verify the power LEDs on both the send and receive units are brightly illuminated.
Unusual colors in the video	Power off the destination device and power it back on to force renegotiation. Unplug and re-plug the HDMI cable from receive balun to force renegotiation.
No signal	Use shorter runs of twisted pair cabling.
Screen is completely snowy	Drop the HDMI signal to the next lower resolution; i.e., decrease resolution from 1080p to 1080i, etc.
Speckling in the video image	Replace the twisted pair cable with a higher grade twisted pair cable; i.e., replace Cat 5e with Cat 6.
Occasional signal dropouts	
Speckling in the video image	If the destination device is incapable of displaying the video signal, alter the source signal; i.e., decrease resolution from 1080p to 1080i, etc.
Video without audio	Change source device to output PCM rather than Bitstream audio Enable PCM down sampling if supported by your source device