

intelix

DIGITAL & ANALOG DEVICES

HD18S Installation Guide

HD18S
1x8 HDMI 2.0 DA

Input



Outputs

1

2

3

4

5

6

7

8



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Output 1



Output 2



Output 3



Output 4



Input



Output 5



Output 6



Output 7



Output 8



EDID



TX RX

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.

The Intelix HD18S is a 1x8 HDMI splitter with HDMI 2.0 and HDCP 2.2. The HD18S supports data rates up to 18Gbps and resolutions of 4K2K@60Hz (4:2:0). The HD18S features EDID management which provides multiple EDID options for various resolutions output and HDCP encryption between all devices, ensuring the HDMI source reliably outputs the correct content for the display.

The Intelix HD18S includes input cable equalization and signal regeneration compensation, which reduces the need for additional signal conditioning equipment by compensating for signal loss when using long input cables or cascading multiple units.

Front Panel Connections

1. Status LEDs
 - Power: Solid red when power is applied.
 - Input: Solid blue when HDMI source is active and connected.
 - Output: Solid blue when connected to remote display.

Rear Panel Connections

1. Locking 12V DC power connector.
2. Eight (8) HDMI output connections.
3. One (1) HDMI input connection.
4. Dip Switch for EDID management.
5. RS232 port for firmware update.

EDID Presets:

	Descriptions	Position	Descriptions
0	Copy EDID from HDMI output 1	8	1920x1080@60Hz/ 3D, 5.1 Surround Sound Audio
1	1080i, PCM 2 Channel Audio	9	1920x1080@60Hz/ 3D, 7.1 Audio
2	1080i, 5.1 Surround Sound Audio	A	1280x1024 DVI
3	1080i, 7.1 Audio	B	1920x1080 DVI
4	1080p, PCM 2 Channel Audio	C	1920x1200 DVI
5	1080p, 5.1 Surround Sound Audio	D	4K2K @ 30Hz, PCM 2 Channel Audio
6	1080p, 7.1 Audio	E	4K2K @ 60Hz, PCM 2 Channel Audio
7	1920x1080@60Hz/ 3D, PCM 2 Channel Audio	F	Copy EDID from HDMI output 2

Instructions

1. Verify all components included with the distribution amp are present before installation.
2. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
3. Connect an HDMI cable between the source and HDMI input of the HD18S.
4. Connect an HDMI cable between the display(s) and the HDMI output(s) of the HD18S.
5. Connect the 12V DC power supply to the locking power connector.
6. Power on attached audio/video devices.

Troubleshooting Tips

Symptom	Possible Solutions
· Distribution amplifier does not power on	· Verify power outlet is active. · Verify the power supply connector is secured to the rear of the distribution amplifier.
· Distorted or no video output	· Verify the video output resolution of the source is compatible with the display. · Test with another HDMI cable. · Test with another HDMI source.
· Cannot hear HDMI input audio	· If using a DisplayPort device with a DisplayPort to HDMI adapter, verify source can pass audio via DisplayPort connection.

Technical Specifications

I/O Connections	
HDMI Input	One (1) HDMI Type A Receptacle
HDMI Outputs	Eight (8) HDMI Type A Receptacle (1 per output)
Supported Audio and Video	
Maximum Data Rate	18 Gbps
HDTV Video Resolutions	480p, 576p, 720p, 1080i, 1080p, 4Kx2K @30Hz, 4Kx2K @60Hz (4:2:0)
VESA Video Resolutions	Up to 1920x1200
Embedded Audio Compatibility	Up to PCM 5 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Maximum Passive HDMI Distance	5m (16 ft)
Compliance	HDMI 2.0, HDCP 2.2
Maximum Pixel Clock	600MHz
Input DDC Signal	5V
Chassis and Environmental	
Enclosure	Painted Aluminum
Dimensions (W x H x D)	257 mm x 90 mm x 18 mm (10.11 in x 3.54 in x 0.70 in)
Shipping Weight	0.58 kg (1.27 lbs)
Operating Temperature	0° to +45° C (+32° to +113° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (-4° to +140° F)
Storage Humidity	10% to 90%, Non-condensing
Power, ESD, and Regulatory	
Maximum Power Consumption	1080p: 8 W (max) / 4K: 12 W (max)
Power Supply Input Voltage	100-240v AC at 50/60 Hz at 0.45A
Power Supply Output Rating	DC 12V 1.5A
ESD Protection	8kV
Device Regulatory	CE, RoHS
Power Supply Regulatory	CE, FCC
Other	
Warranty	2 years
Diagnostic Indicators	Power LED, Input LED, Eight (8) Output Status LEDs
Included Accessories	Installation guide, power supply, mounting "L" brackets (2 ea), mounting screws (2 ea), 3 pole RS232 connector.

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

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