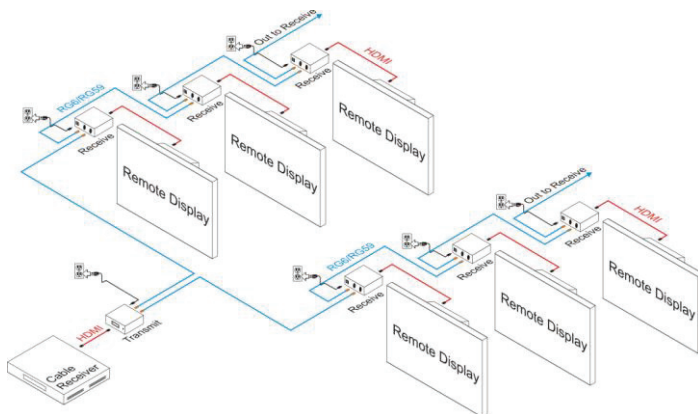


## DIGI-HD-COAX2 Installation Guide



The Intelix **DIGI-HD-COAX2** is an AV transport system that allows HDMI with multi-channel audio to be distributed using coaxial cable. Transmission distances can be seen in the following table. The transmitter features selectable EDID presets to allow for stereo, 5.1, or 7.1 audio systems, and dual outputs. The receiver features a loop out to allow the signal to be daisy-chained up to 7 receivers.



### Model Numbers

#### Transmitters:

DIGI-HD-COAX2-S – Transmitter for use in North America  
 DIGI-HD-COAX2-S-EU – Transmitter for use in Europe  
 DIGI-HD-COAX2-S-UK – Transmitter for use in the United Kingdom  
 DIGI-HD-COAX2-S-AU – Transmitter for use in Australia

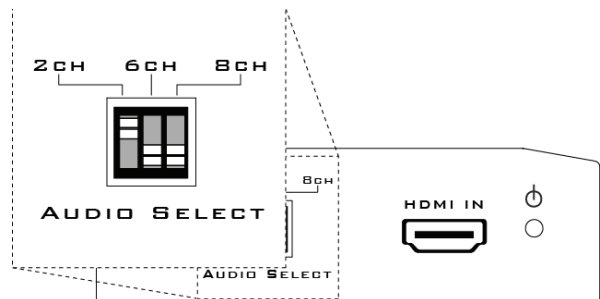
#### Receivers:

DIGI-HD-COAX2-R – Receiver for use in North America  
 DIGI-HD-COAX2-R-EU – Receiver for use in Europe  
 DIGI-HD-COAX2-R-UK – Receiver for use in the United Kingdom  
 DIGI-HD-COAX2-R-AU – Receiver for use in Australia

### Installation 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 coaxial cables.
4. Install included 75ohm Terminator to the unused "Loop Out" on the receiver.
5. Connect all HDMI cables.
6. Connect and energize power supplies.
7. Power on attached audio/video devices, and select the correct HDMI input.
8. Confirm audio and video on all displays.

### DIP Switch Settings



### DIGI-HD-COAX2 DIP Switch Positions

DIP Setting	Mode
	<b>2 Channel Audio</b> – Set DIPs to this configuration to enable audio for stereo speaker systems. Use this for connecting to flat panel TVs.
	<b>6 Channel Audio</b> – Set DIPs to this configuration to enable audio for 5.1 speaker systems. This will also allow stereo.
	<b>8 Channel Audio</b> – Set DIPs to this configuration to enable audio for 7.1 speaker systems. This will also allow stereo and 5.1 content.

Troubleshooting	
Symptom	Possible Solutions
No signal Power LED is off	No power to outlet.  Power supply unplugged.  Bad power supply, switch with known good to verify.
No signal Power LED is ON	Exceeding cable distance, lower resolution on source, reduce cable distance, or add another DIGI-HD-COAX2-R in-line as a booster.  Bad connectors, replace connectors on coax cable.  Bad cables replace HDMI cables one at a time, replace coax cable.
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 Screen is completely snowy Speckling in the video image Occasional signal dropouts	Use shorter runs of coaxial cabling.  Drop the HDMI signal to the next lower resolution; i.e., decrease resolution from 1080p to 1080i, etc.  Replace the coaxial cable with a higher grade coaxial cable; i.e., replace RG59 with RG6.  Reterminate BNC connectors
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
Audio without dialog	Display cannot accept multi-channel audio, change transmitter audio to 2ch mode. Power cycle devices.
Choppy or intermittent audio.	Wrong sample rate, set source to 48kHz sampling frequency.
Stereo audio only	Transmitter set to 2ch mode, change configuration to match number of speakers in the system. Power cycle devices.  AV Receiver set to stereo audio – consult AVR manual.

Specifications	
<b>Video Amplifier Bandwidth</b>	10.4 Gb/s
<b>*RG6 Max Distance (point-to-point or between links)</b>	1080p: 300' (90m) 1080i: 650' (200m) 720p: 650' (200m)
<b>*RG59 Max Distance (point-to-point or between links)</b>	1080p: 250' (80m) 1080i: 500' (150m) 720p: 500' (150m)
<b>Max Links</b>	7 per Transmitter output
<b>Transmitter Connectors (DIGI-HD-COAX2-S)</b>	One (1) HDMI type A connector and two (2) female BNC
<b>Receiver Connectors (DIGI-HD-COAX2-R)</b>	One (1) HDMI type A connector and two (2) female BNC
<b>Supported Audio</b>	PCM 2ch @ 48 kHz (2.0) PCM 6ch @ 48kHz (5.1) PCM 8ch @ 48kHz (7.1)
<b>Output Colorspace</b>	YCbCr 4:2:2
<b>Supported Resolutions</b>	720p60, 1080i30, 1080p60, 1080p24 (3D not supported)
<b>Operating Temp Range</b>	32 to 104 degrees F 0 to 40 degrees C
<b>Operating Humid Range</b>	10 to 85% non-condensing
<b>Dimensions</b>	1.14"H x 3.64" W x 3.84"L (4.73" incl. connectors) 29mm H x 92.5mm W x 97.5mm L (120mm incl. connectors)
<b>Enclosure</b>	Metal (Silver)
<b>Power</b>	5 VDC / 2A
<b>Regulatory</b>	CE, RoHS
<b>Compliance</b>	HDCP
<b>Shipping Weight</b>	1.45lbs. (660g)
<b>Max HDMI Cable Length</b>	6' (2m) or less
<b>Included Accessories</b>	(1) power supply, (1) 75ohm terminator, (2) Mounting brackets
<b>Warranty</b>	2 years

\*Variances in connectors and cable grade/condition can greatly affect distance. Maximum distances cannot be guaranteed due to these factors. "Baseband" cable is not compatible with the DIGI-HD-COAX2

**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 any unrelated equipment (RF amplifiers splitters, modulators, etc.) Doing so may damage the unit or any connected equipment. Ensure all connected coaxial cabling is straight-through (point-to-point).
- Allow proper ventilation to reduce the risk of thermal failure.