

Specifications

Environment	HDMI 1.3a, 3G-SDI, HD-SDI & SD-SDI
Devices	DVD, plasma, projectors, monitors, TV, PC, laptops, servers supporting HDMI.
Transmission	Transparent to the user
Bandwidth	225 MHz
Signals	HDMI 1.3a & SDI protocol
Supported Resolution	480i, 576i, 720p, 1080i, 1080p/23.98/24/25/29.9/30/50/59.94/60
Connectors	One (1) HDMI receptacle. Two (2) BNC Female 75 Ohms. <i>Note: HDMI cables not included.</i>
Maximum Distance	480i: RG-59: 650ft (198m) RG-6: 800ft (244m) 720p, 1080i: RG-59: 500ft (152m) RG-6: 650ft (198m) 1080p: RG-59: 250ft (76m) RG-6: 300ft (91m)
<i>Based on a maximum length of 6.6 ft (2 m) of HDMI cable per end.</i>	
Cable	One (1) RG-59 or better cable required
Power Supply	Two (2) 110-240V/5VDC power supplies with interchangeable blades
Power Consumption	Transmitter: 3.30 Watt Receiver: 3.55 Watt
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Enclosure	Metal
Dimensions	4.72" x 3.54" x 1.18" (12.0 x 9.0 x 3.0 cm)
Weight	1.3 lbs (0.59 kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	2 years
Order Information	500465 HDMI over Coax Extender Kit 500465-TX HDMI over Coax Transmitter 500465-RX HDMI over Coax Receiver



HDMI over Coax Extender Kit 500465

Quick Installation Guide

Overview

The HDMI over Coax Extender Kit (500465) allows HDMI equipment to be connected up to 250ft (76m) @ 1080p via one (1) RG-59 coaxial cable in a point-to-point configuration. The Transmitter converts the HDMI signal to SDI and the Receiver converts the SDI signal back to HDMI, supporting resolutions of 480i (SD-SDI), 720p/1080i (HD-SDI) and 1080p (3G-SDI), and allows the user to benefit from an existing coax cable infrastructure. The kit thereby enables conversion of the HDMI to the SDI environment and vice-versa, and includes one (1) Transmitter and one (1) Receiver.

Applications

Applications include commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, and medical information systems.

Installation

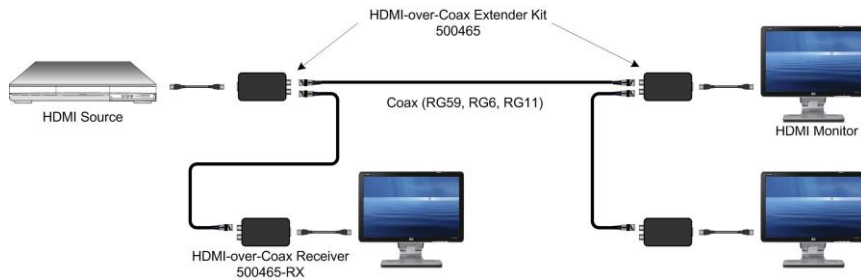
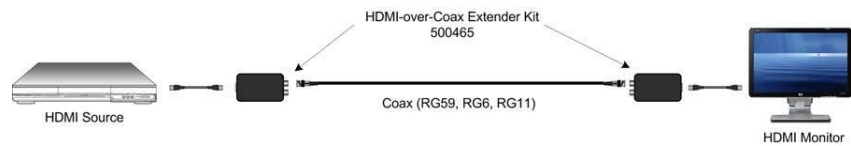
1. Identify the connectors on the Transmitter and Receiver as indicated on the product labels. Reference the front and rear product views for further details.
2. Verify that the distance between the Transmitter and Receiver is within MuxLab specifications (see Specifications table).
3. To install the Transmitter:
 - 3a. Connect the Transmitter to the HDMI video source with an HDMI compliant cable.
 - 3b. Connect one (1) length of RG-59 (or higher) grade coaxial cable to the RJ45 LINK connector on the Transmitter.



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4. To install the Receiver:
 - 4a. Connect the Receiver to the HDMI display equipment with an HDMI compliant cable.
 - 4b. Connect the one (1) RG-59 coaxial cable to the RJ45 LINK connector on the Receiver.
5. Connect the 5 VDC power supply to the Receiver first, and then plug the power supply into an AC power outlet. Connect the 5 VDC power supply to the Transmitter first, and then plug the power supply into an AC power outlet. If power is present, the green power LED of the Transmitter and the Receiver will be ON.

Note: Power the HDMI over Coax Extender only after all connections are made.
6. Power the HDMI equipment and verify the image quality.
7. This product can be daisy chained by connecting additional Receivers to the second SDI port. This is achieved by connecting the BNC output of the first HDMI Transmitter or Receiver to the BNC input of the cascade Receiver.
8. The following diagram shows the final configuration.



Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions in regards to the installation of the HDMI over Coax Extender Kit:

Symptom	Tx LEDs			Rx LEDs			Probable Cause	Possible Solutions
	Power	HDMI	Coax	Power	HDMI	Coax		
No Image	OFF	OFF	OFF	OFF	OFF	OFF	No power	• Check power connections
No Image	ON	OFF	OFF	ON	OFF	OFF	Source	• Check the HDMI cable at the source.
No Image	ON	ON	OFF	ON	OFF	OFF	Resolution	• Check if the source resolution is valid.
No Image	ON	ON	ON	ON	OFF	OFF	Coaxial Cable	• Check the coaxial cable.
No Image	ON	ON	ON	ON	OFF	ON	Display	• Check the HDMI cable at the display.
Flickering Image	ON	ON	ON	ON	ON	ON	Synchronization	• Check cable length • Check the HDMI Cable Quality.
Choppy sound	ON	ON	ON	ON	ON	ON	Synchronization	• Check cable length • Check the HDMI Cable Quality.

If you still cannot diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).