

Specifications

| | |
|-----------------------------|---|
| Environment | HDMI 1.3a, 3G-SDI, HD-SDI & SD-SDI |
| Devices | Camera, plasma, projectors, monitors, TV. |
| Transmission | Transparent to the user. |
| Detection | Auto Detection of the 3G/HD/SD-SDI Signal. |
| Bandwidth | 2.97Gbps & 2.975/1.001Gbps |
| Signals | HDMI 1.3a & SDI protocol. |
| Supported Resolution | 3G-SDI: 1080p50/59.94/60Hz (4:2:2) HD-SDI: 1080p/23.98/24/25/29.97/30Hz 720p/50/59.94/60Hz 1080i/50/59.94/60Hz SD-SDI: NTSC (59.94Hz), PAL (50Hz) |
| Audio | Up to 8 Audio Channels. |
| Input Signal | 3G-SDI: SMPTE-424M HD-SDI: SMPTE 292M, 296M SD-SDI : SMPTE 259M |
| Connectors | Two (2) BNC Female 75 Ohms, Gold Plated. One (1) HDMI Type A receptacle. <i>Note: HDMI and RG59 coaxial cables not included.</i> |
| Cable Equalization | 3G-SDI up to 300ft (90m) HD-SDI up to 500ft (150m) SD-SDI up to 1000ft (300m) |
| Cable | One (1) RG-59 or better cable required. |
| Power Supply | One (1) 110-240V/5VDC power supply with interchangeable blades. |
| Power Consumption | 3.0Watt (Max) |
| Temperature | Operating: 0° to 40°C Storage: -20° to 60°C Humidity: Up to 90% non-condensing |
| Enclosure | Metal |
| Dimensions | 3.1" x 3.3" x 1.2" (79mm x 84mm x 27mm) |
| Weight | 1.7lbs (0.78kg) |
| Compliance | Regulatory: FCC, CE, RoHS Flammability: 94V0 |
| Warranty | 2 years |
| Order Information | 500717 3G-SDI to HDMI Converter |



3G-SDI to HDMI Converter 500717 Quick Installation Guide

Overview

The 3G-SDI to HDMI Converter (500717) allows SDI equipment to be connected to an HDMI Display. The 3G-SDI to HDMI Converter converts the SDI signal back to HDMI, supporting resolutions of 480i (SD-SDI), 720p/1080i (HD-SDI) and 1080p (3G-SDI). The 3G-SDI to HDMI Converter provides a low jitter and re-clocked outputs allowing for unit daisy chain.

Applications

Applications include video production, broadcasting, outside broadcasting vehicle, SDI camcorder, studio-to-studio, post production, live events, medical imaging display, mobile video.

Installation

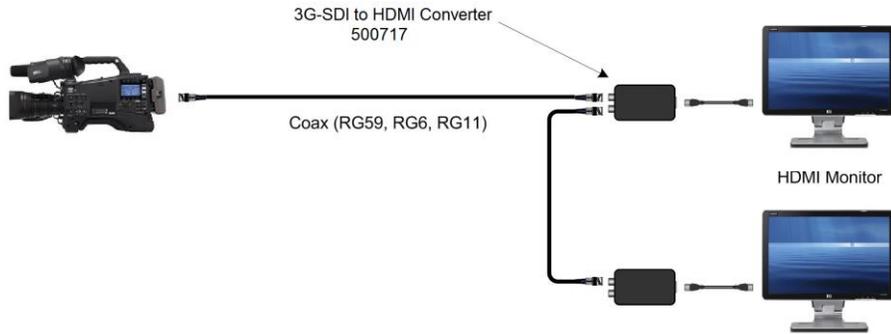
1. Identify the connectors on the 3G-SDI to HDMI Converter as indicated on the product labels, see the above front and rear product views for further details.
2. Connect the source to the SDI Input of the converter.
3. Connect the display to the HDMI Output of the converter.
4. Connect the 5 VDC power supply to the Converter first, and then plug the power supply into an AC power outlet. If power is present, the green power LED of the Converter will be illuminated.

Note: Power the 3G-SDI to HDMI Converter only after all connections are made.



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5. Power the equipment and verify the image quality.
6. This product can be daisy chained by connecting additional converter to the Loop Out port. This is achieved by connecting the “Loop Out” BNC output of the first converter to the “SDI In” BNC input of the cascaded converter.
7. The following diagram shows the final configuration.



Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions with respect to the installation of the 3G-SDI to HDMI Converter:

| Symptom | LEDs | | Probable Cause | Possible Solutions |
|------------------|-------|------|----------------------------------|---|
| | Power | Sync | | |
| No Image | OFF | OFF | No power | • Check power connections |
| No Image | ON | OFF | Source | • Check if the source is sending a signal. |
| No Image | ON | ON | Resolution | • Check if the source resolution is valid. |
| No Image | ON | ON | Coaxial Cable | • Check the coaxial cable. |
| No Image | ON | ON | Coaxial Cable distance | • Check the coaxial cable distance for the corresponding resolution (see Specifications table). |
| No Image | ON | ON | Coaxial Cable Quality | • Check the coaxial cable type. It should be an RG-59 or better coaxial cable. |
| No Image | ON | ON | Display | • Check the HDMI cable at the display. |
| Flickering Image | ON | ON | Synchronization | • Check the HDMI Cable Quality. |
| Wrong Color | ON | ON | 1080p/60 Level-B Synchronisation | • Configure source device to 1080p/60 Level-A. |
| Choppy sound | ON | ON | Synchronization | • 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).

