



3G-SDI to HDMI[®] Converter

P/N 10318

User's Manual

SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- Unplug this device from the power source when not in use.

- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.
- Ensure that power is turned off and disconnected before making any electrical connections.
- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

INTRODUCTION

This 3G-SDI to HDMI® Converter allows you to view professional SMPTE video on a commercial quality HDMI display. It supports the SD-SDI, HD-SDI, and 3G-SDI, which translates to HDMI video resolutions from 525i to 1080p@60Hz. It supports Deep Color up to 12-bits per channel (36-bit total) and up to eight channels of digital audio at a 48k sampling rate. It includes an SDI loop output with re-clock functionality, allowing multiple units to be cascaded.

FEATURES

- Supports SD-SDI, HD-SDI, and 3G-SDI video inputs
- Outputs HDMI® video at resolutions up to 1080p@60Hz
- Includes an SDI output with re-clock functionality
- Supports 8-bit, 10-bit, and 12-bit per channel Deep Color
- Supports the RGB, YCbCr 4:4:4, and YCbCr 4:2:2 color spaces
- Supports data rates from 270Mbps ~ 2.97Gbps
- Supports up to eight channels of digital audio at 48k sampling rate
- Supports RG-59 cable runs up to 300 meters for SD-SDI and 130 meters for HD-SDI

CUSTOMER SERVICE

The Monoprice Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website **www.monoprice.com** during normal business hours (Mon-Fri: 5am-7pm PT, Sat-Sun: 9am-6pm PT) or via email at **support@monoprice.com**

PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

1x 3G-SDI to HDMI® converter

1x AC power adapter (5 VDC, 2A)

2x Mounting brackets

4x Mounting screws

1x User's manual

PRODUCT OVERVIEW



SDI In: BNC connector for connecting the SDI video source device using a 75 ohm RG-59 cable (not included).

SDI Out: BNC connector for connecting an SDI video output device using a 75 ohm RG-59 cable (not included). The output is re-locked, allowing multiple converters to be cascaded.

DC/5V: DC barrel connector for connecting the included AC power adapter. The LED to the right of the connector illuminates when power is applied.

HDMI Out: HDMI® connector for connecting an HDMI display at resolutions up to 1080p@60Hz.

SAMPLE CONNECTION DIAGRAM



INSTALLATION

1. Ensure that all devices to be connected are powered off and disconnected from their power source.
2. Place or mount the converter in its desired location.
3. Using a High Speed HDMI® Cable (not included), plug one end into the HDMI video input on your HDMI display, then plug the other end into the **HDMI Out** connector on the converter.
4. (Optional) Using an RG-59 coaxial cable (not included), plug one end into the SDI input on an SDI output device (e.g., SDI display, another converter, etc.), then plug the other end into the **SDI Out** connector on the converter.

- Using an RG-59 coaxial cable (not included), plug one end into the **SDI In** connector on the converter, then plug the other end into the SDI output on your video source device.
- Plug the DC barrel connector on the included AC power adapter into the **DC/5V** connector on the converter, then plug the adapter into a nearby AC power outlet. The LED on the converter will illuminate, indicating that power has been applied.

Congratulations, you have successfully installed your new 3G-SDI to HDMI converter!

SPECIFICATIONS

Model	10318
Inputs	1x SDI BNC female
Outputs	1x SDI BNC female, 1x HDMI® female
Supported SDI Standards	SD-SDI, HD-SDI, 3G-SDI
Maximum Video Resolution	1080p@60Hz
Deep Color Support	8-bits, 10-bits, and 12-bits per channel

Maximum SDI Transmission Distance (over RG-59 coaxial cable)	SD-SDI: up to 984 feet (300 meters) HD-SDI: up to 426 feet (130 meters)
Supports Color Spaces	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Audio Support	Up to 8 channels at 48k sampling rate
Input Power	5 VDC, 2A
AC Adapter Input Power	100 ~ 240 VAC, 50/60 Hz
Maximum Power Consumption	2.5 watts
Operating Temperature	+32 ~ +158°F (0 ~ +70°C)
Operating Humidity	10 ~ 85% RH, non-condensing
Storage Temperature	+14 ~ +176°F (-10 ~ +80°C)
Storage Humidity	5 ~ 90% RH, non-condensing
Dimensions	3.9" x 2.8" x 1.0" (100 x 70 x 25 mm)
Weight	7.1 oz. (202 g)

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