MONOPRICE

Multiformat to SDI Converter with Scaler

P/N 15775

User's Manual

SAFETY WARNINGS AND GUIDELINES

- 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 place or install this device in an area where it can be exposed to excessive amounts of dust, humidity, oil, smoke, or combustible vapors.

- Use only in a well-ventilated area. Do not use in close, confined spaces.

- Ensure that power is turned off and disconnected before making any electrical connections.

- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.

- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.

- 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.

- 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

Thank you for purchasing this Multiformat to SDI Converter with Scaler! This video converter accepts inputs from a variety of consumer-grade audio and video sources and converts the video to professional grade SDI video. The outputs can be scaled to produce either the HD-SDI or 3G-SDI standards. The two SDI outputs are amplified and support transmission distances of 100 or 200 meters, depending on the standard employed.

FEATURES

- Includes HDMI®, DVI, VGA, and Composite video inputs
- Includes separate audio inputs for the DVI, VGA, and Composite video inputs
- Automatically mixes separate audio inputs with the associated video inputs
- Features two SDI outputs
- Supports SDI transmission distances of 200 meters for HD-SDI (SMPTE 292M) signals
- Supports SDI transmission distances of 100 meters for 3D-SDI (424M/425M) signals
- Scales any input to HD-SDI (720p) or 3G-SDI (1080p) standards
- Supports HDMI, DVI, and VGA input resolutions up to 1920x1080p
- Supports NTSC, PAL, and SECAM composite video standards
- Includes a black screen video "input"

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.
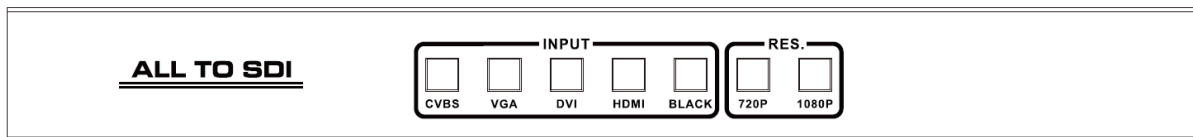
> 1x Multiformat to SDI video converter
>
> 1x AC power adapter
>
> 1x User's manual
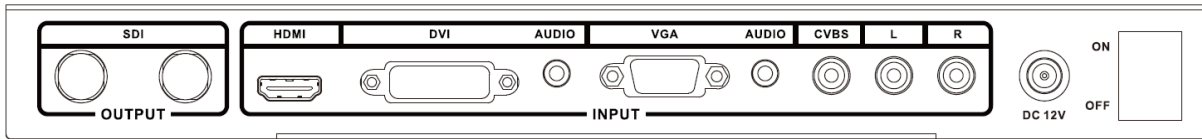
PRODUCT OVERVIEW

Front Panel

INPUT: Press one of these buttons to select the **CVBS** (composite), **VGA**, **DVI**, or **HDMI**® video inputs. Pressing the **BLACK** button will generate a pure black screen without audio for output to the SDI devices.

RES.: Press one of these buttons to set the output video resolution to **720P** (HD-SDI) or **1080P** (3G-SDI).

Rear Panel

OUTPUT: Two BNC connectors for connecting SDI output devices, such as monitors or video recorders.
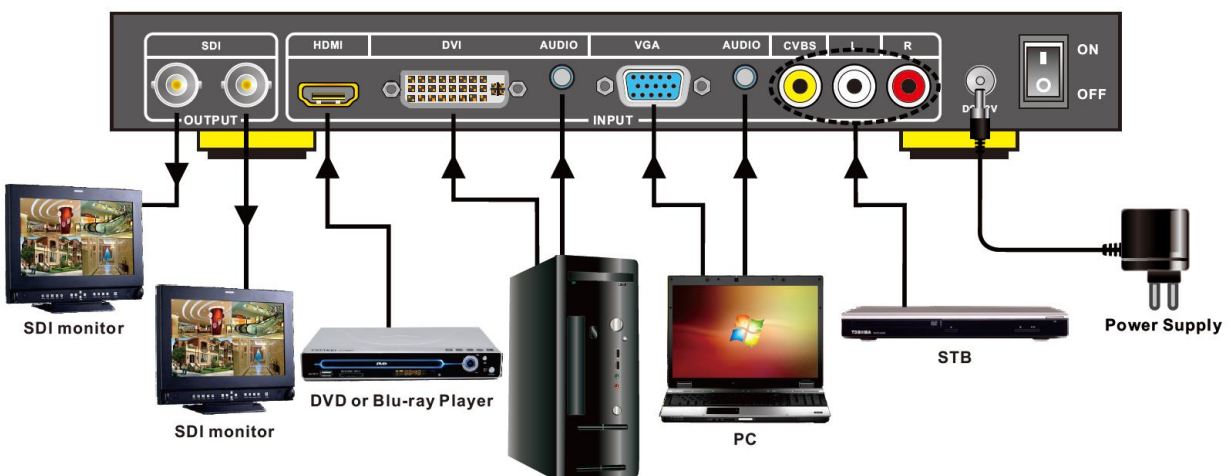
INPUT: HDMI®, DVI, VGA, and CVBS (composite) video inputs. The DVI and VGA inputs each have an associated 3.5mm TRS analog stereo audio input, while the CVBS input has an associated set of L/R RCA analog stereo audio inputs. The audio inputs are automatically mixed with their associated video inputs for output to the SDI devices.

DC 12V: DC barrel connector for connecting the included AC power adapter.

ON/OFF: Power switch.

INSTALLATION

Note that none of the cables or devices mentioned in this section are included, unless specifically noted. All cables mentioned are available at **www.monoprice.com**

1. Ensure that all equipment to be connected is powered off and unplugged from its power source prior to making any connections.

Note that all video and audio inputs are optional. Use the ones you need and leave the rest unconnected, as desired. Only one video input is required for operation.

2. Using an SDI (BNC) video cable, plug one end into the input on your SDI output device (e.g., monitors), then plug the other end into one of the **SDI OUTPUT** connectors on the converter. Repeat for a second SDI output device, as desired.

3. Using a High Speed HDMI® Cable, plug one end into the **HDMI INPUT** on the converter, then plug the other end into the HDMI output of your source device (e.g., DVD or Blu-ray™ player).

4. Using a DVI cable, plug one end into the **DVI INPUT** on the converter, then plug the other end into the DVI output of your source device (e.g., PC).

5. Using a 3.5mm TRS stereo audio cable, plug one end into the **AUDIO INPUT** in the DVI section of the converter, then plug the other end into the audio output of your DVI source device (e.g., PC).

6. Using a VGA cable, plug one end into the **VGA INPUT** on the converter, then plug the other end into the VGA output of your source device (e.g., laptop).

7. Using a 3.5mm TRS stereo audio cable, plug one end into the **AUDIO INPUT** in the VGA section of the converter, then plug the other end into the audio output of your VGA source device (e.g., laptop).

8. Using a three conductor RCA audio/video cable, plug one end into the RCA **CVBS, L,** and **R INPUT** connectors on the converter, then plug the other end into the video and audio outputs of your composite video source device (e.g., VHS VCR). Match the colors on the cable connectors with the insert colors on the RCA connectors on both the converter and the video source device. Note that some cables and devices use a black connector/insert in place of white for the Left channel audio.

9. Plug the DC barrel connector on the included AC power adapter into the **DC 12V** input on the converter, then plug the AC power adapter into a nearby power outlet.

10. Depress the **ON** side of the power switch on the converter to power it on.

11. Plug in and power on all connected equipment.

Congratulations, your video converter is now installed and ready for use!

TROUBLESHOOTING

Q1: I get no video on either output.

A1: Ensure that the converter is plugged in and powered on. Ensure you are not using the BLACK "input".

Q2: I get no video on one output, though video is present on the other.

A2: Try swapping the outputs to see if the problem is related to the output device or cable. Ensure that the cable runs are not longer than the maximum distance for the selected output resolution. If using the 1080P output resolution, try selecting the 720P option. Try swapping out the cable with a known good one.

Q3: I don't get video from one of the source devices only.

A3: Ensure that the source device is powered on and playing video material. Check the connections. Try swapping the video cable with a known good one.

Q4: I don't get audio from one of the non-HDMI® inputs.

A4: Check the connections on the audio cable(s). Try swapping out the audio cable(s) with known good one(s). Ensure that the video source is producing associated audio.

TECHNICAL SUPPORT

Monoprice is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website **www.monoprice.com** during regular business hours, 7 days a week. You can also get assistance through email by sending a message to **tech@monoprice.com**

SPECIFICATIONS

Inputs	1xHDMI®
	1x DVI with 3.5mm TRS audio
	1x VGA with 3.5mm TRS audio
	1x Composite RCA with L/R RCA audio
Outputs	2x SDI BNC
SDI Transmission Rates	2.970 Gbps (3G-SDI)
	1.485 Gbps (HD-SDI)
Video Bandwidth	165 MHz / channel
Max Input Resolution	1920x1080p
Output Resolutions	1280x720p (HD-SDI)
	1920x1080p (3G-SDI)
Max SDI Cable Length	200 meters (720p)
	100 meters (1080p)
Max HDMI Cable Length	10 meters
Composite Video Standards	NTSC, PAL, SECAM
Input Power	12 VDC, 2.5A
AC Adapter Input Power	100 ~ 240 VAC, 50/60 Hz
Max Power Consumption	5 watts
Operating Temperature	+32 ~ +104°F (0 ~ +40°C)
Storage Temperature	-4 ~ +140°F (-20 ~ +60°C)
Operating Humidity	20 ~ 90% RH, non-condensing
Dimensions	4.3" x 11.3" x 1.3" (110 x 288 x 32 mm)
Weight	26.5 oz. (750 g)

REGULATORY COMPLIANCE

Notice for FCC

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice for Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.