

MONOPRICE

SDI to Multiformat Video Converter with Scaler

P/N 15776

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 SDI to Multiformat Video Converter with Scaler! This video converter accepts an SDI audio/video input with SD, HD-SDI, and 3G-SDI video signals and outputs to consumer grade video devices, such as computer monitors and HDTVs. Separate analog stereo audio outputs for the DVI, VGA, and Composite video outputs allow you to produce audio for the associated video device. You can select the output resolution, up to 1900x1200, for the HDMI®, DVI, and VGA outputs, while you can select PAL or NTSC encoding for the composite video output.

FEATURES

- Supports and auto-detects SD-SDI, HD-SDI, and 3G-SDI video input signals
- Includes an equalized and reclocked SDI loop output
- Includes HDMI®, DVI, VGA, and Composite video outputs
- All outputs are simultaneously active
- Selectable output resolution for the HDMI, DVI, and VGA outputs (720p, 1080p, 1024x768, and 1920x1200)
- Selectable PAL (576i) and NTSC (480i) encoding for the Composite video output
- Includes associated analog stereo audio outputs for the DVI, VGA, and Composite video outputs
- SDI interface operates at the 2.910 Gbps, 2.970/1.001 Gbps, 1.485 Gbps, 1.485/1.001 Gbps, and 270 Mbps bitrates
- Supports SDI transmission distances of 300 meters for SD-SDI (SMPTE 259M-C) signals
- 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
- Includes a black screen video output without audio

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.

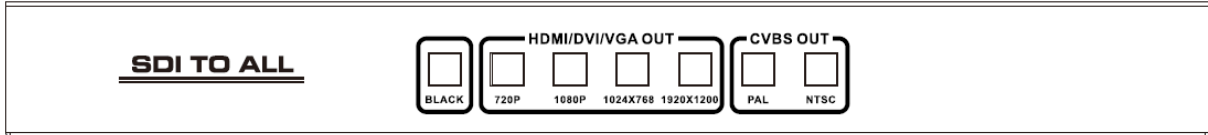
1x SDI to multiformat video converter

1x AC power adapter

1x User's manual

PRODUCT OVERVIEW

Front Panel

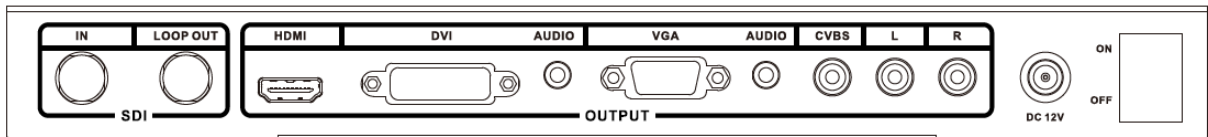


BLACK: Press the **BLACK** button to generate a black screen without audio for output to the connected video devices.

HDMI/DVI/VGA OUT: Press one of these buttons to select the video resolution for the HDMI®, DVI, and VGA outputs. You can select the 720p, 1080p, 1024x768, and 1920x1200 resolutions.

CVBS OUT: Press the **PAL** or **NTSC** button to set the composite video standard.

Rear Panel



SDI: Two BNC connectors, one for the SDI input and one for the SDI loop output.

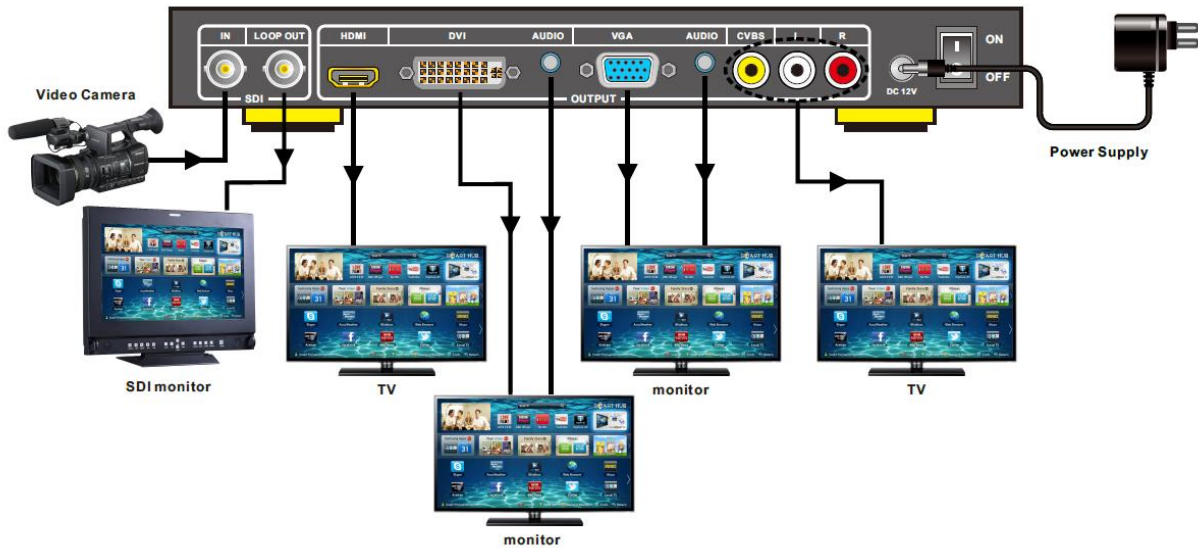
OUTPUT: HDMI®, DVI, VGA, and CVBS (composite) video outputs. The DVI and VGA outputs each have an associated 3.5mm TRS analog stereo audio output, while the CVBS output has an associated set of L/R RCA analog stereo audio outputs.

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 outputs are optional. Use the ones you need and leave the rest unconnected, as desired. Only one video output is required for operation.

2. Using a High Speed HDMI® Cable, plug one end into the HDMI input on your HDMI-equipped display, then plug the other end into the **HDMI OUTPUT** connector on the converter.
3. Using a DVI cable, plug one end into the DVI input on your display, then plug the other end into the **DVI OUTPUT** connector on the converter.
4. Using a 3.5mm TRS stereo audio cable, plug one end into the audio input on your display or powered speakers, then plug the other end into the **AUDIO OUTPUT** connector in the DVI section on the converter.
5. Using a VGA cable, plug one end into the VGA input on your display, then plug the other end into the **VGA OUTPUT** connector on the converter.

6. Using a 3.5mm TRS stereo audio cable, plug one end into the audio input on your display or powered speakers, then plug the other end into the **AUDIO OUTPUT** connector in the VGA section on the converter.
7. Using a three conductor RCA audio/video cable, plug one end into the RCA composite video and stereo audio inputs on your display, then plug the other end into the RCA **CVBS, L, and R OUTPUT** connectors on the converter. Match the colors on the cable connectors with the insert colors on the RCA connectors on both the converter and the display. Note that some cables and devices use a black connector/insert in place of white for the Left channel audio.
8. Using an SDI (BNC) video cable, plug one end into the SDI input on your SDI display, then plug the other end into the **SDI LOOP OUT** connector on the converter.
9. Using an SDI (BNC) video cable, plug one end into the **SDI IN** connector on the converter, then plug the other end into the SDI output on your SDI video source.
10. 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.
11. Depress the **ON** side of the power switch on the converter to power it on.
12. 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 any output.

A1: Ensure that the converter is plugged in and powered on. Check the cable connections for the cable from the SDI video source to the converter. Try swapping the cable with a known good one. Ensure the cable length does not exceed the maximum length for the video resolution in use. Ensure that the video source resolution does not exceed 1920x1080p. Try using an SD video source. Ensure that the BLACK option is not selected.

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

A2: Ensure that the display is capable of using the selected video resolution. Check the cable connections for the cable running to the affected display. Try swapping out the video cable with a known good one.

Q3: I don't get audio on any output.

A3: Ensure that the video source contains audio material.

Q4: I don't get audio on one of the non-HDMI® outputs, though it is present on the others.

A4: Check the cable connections for the affected display. Ensure the display is capable of playing audio. Check the volume/mute settings on the display. Check the cable connections for audio cable for the affected display. Try swapping the audio cable with a known good one. If this is the DVI or VGA display, try plugging a pair of headphones directly into the audio output.

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

Input	1x SDI BNC
Outputs	1x SDI BNC 1x HDMI® 1x DVI with 3.5mm TRS audio 1x VGA with 3.5mm TRS audio 1x Compositd RCA with L/R RCA audio
SDI Transmission Rates	2.970 Gbps and 2.970/1.001 Gbps (3G-SDI) 1.485 Gbps and 1.485/1.001 Gbps (HD-SDI) 270 Mbps (SD-SDI)
SMPTE Standards	425M level A & B, 424M, 292M, 259M-C
Max Input Resolution	1920x1080p
HDMI/DVI/VGA Output Resolutions	720p, 1080p, 1024x768, 1920x1200
CVBS Output Resolutions	480i (NTSC), 576i (PAL)
Max SDI Cable Length	300 meters (480i/576i) 200 meters (720p) 100 meters (1080p)
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.

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