Avonic AV-CV150

3G SDI to HDMI Converter



User Manual

Version 1.0

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Introduction

Congratulations

Thank you for purchasing the Avonic AV-CV150 3G SDI to HDMI Converter. Before beginning to operate this device, please read the manual in order to make sure the best performance is obtained. Save this manual for future reference.

Safety Notes

- Installation and servicing should only be done by Qualified Service Personnel and conform to all local codes.
- This unit is designed for indoor use only and it must not be installed where exposed to water or other liquids and moisture.
- Before powering on the device, check the input power voltage carefully.
- Avoid shock and vibration when transporting and installing the device.
- Use wall mount brackets or ceiling mount brackets available at Avonic for safe installation.
- Electronic devices produce heat. Do not block the ventilation slots of the device and make sure the installation environment is well ventilated to avoid overheating.
- Before cleaning, unplug the power cable. Use a soft, damp cloth to clean the device, do not use strong or abrasive detergent to clean that will damage the device.
- If you wish to dispose this product, please contact Avonic to obtain info about the take-back procedure.

Package contents and Accessories

Quantity	Decription	Avonic SKU
1 pc	3G SDI to HDMI Converter	AV-CV150
1 pc	Power Supply 5V/1A	AV-CV150-PSU

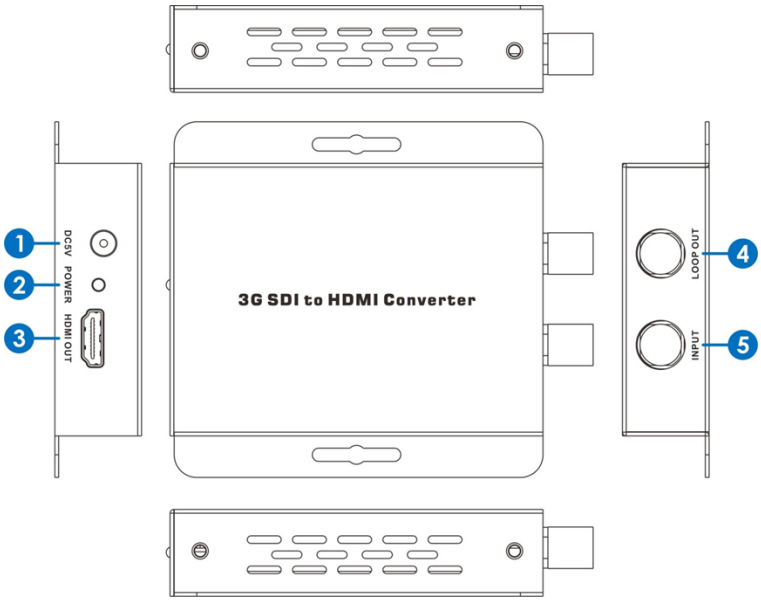
Product Overview

The Avonic AV-CV150 SDI to HDMI converter allows SD-SDI, HD-SDI and 3G-SDI signals to be shown on HDMI/SDI displays while ensuring high bit rates of 2.970 Gbit/s to give you fast signal transmission without any loss. For professionals this means that it is easier to distribute and extend your 3G SDI signal while giving you the ability to display your content on HDMI displays owing to the built in HDMI converter. Furthermore, Design based on the loop-through 3G-SDI , users are able to enjoy both SDI and HDMI displays at the same time.

Features

- Operation at 2.970Gbit/s, 2.970/1.001Gbit/s, 1.485Gbit/s, 1.485/1.001Gbit/s and 270Mbits/s
- Support SMPTE 425M (Level A and Level B), SMPTE 424M, SMPTE 292M, SMPTE 259M-C
- Equalized and re-clocked loop output• Integrated audio de-embedder for a maximum of 8 channel, 48 kHz audio
- Auto video mode detection (3G/SD/HD)
- Conversion from SMPTE 425M level B to Level A 1080p 50/59.94/60 4:2:2 10-bit
- Connect with other units to extend your signal over long distances
- Display with SDI and HDMI signals simultaneously .
- Support signal transmission distances of up to 300M for SD-SDI signals, 200M for HD-SDI signals and 100M for 3G-SDI signals

Product Description



1. **DC 5V:** Plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet. The red LED will turn on when the power is on.
2. **Power LED:** This red LED will switch on when the device is connected with the power supply.
3. **HDMI OUT:** This slot is where you connect a HDMI / DVI display with a HDMI or HDMI to DVI cable.
4. **LOOP OUT:** This slot is where you connect with SDI source, In order to send a SDI signal to a display.
5. **INPUT:** This slot is where you connect the SDI display with an SDI cable for displaying images. Connect it to another SDI to HDMI converter/ extender to extend your signal or connect to multiple displays.

Installation

Connection Diagram



HD PTZ Camera

SDI Monitor

TV or Monitor

Contact

For any questions or suggestions, contact the reseller or the local distributor of Avonic. Find the local distributor on the website of Avonic.

For the recent manual or datasheet, look at the Avonic website.

www.avonic.eu

Appendix

Technical Data

SMPTE Standard	425M Level A & B, 424M, 292M, 259M-C
SDI Transmission Rates	2.970 Gbit/s and 2.970/1.001 Gbit/s
Resolutions	480i, 576i, 720p@50/59.94,60 1080i@50/59.94/60 1080p@23.98/24/25/29.97/30/50/59.94/60 1080PsF@23.98/24/25/29.97/30
Audio Formats	LPCM 48KHz
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connections	
Input	1 x BNC
Output	1 x BNC 1x HDMI Type A [19-pin female]
Mechanical	
Housing	Metal
Color	Black
Dimensions	95mm [W] x 60mm [D] x 25mm [H]
Weight	260g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/1A Adaptor (US/EU standards, CE/FCC/UL certified)
Power Consumption	2W
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)