

HDMI to 6G-SDI Converter with Dual SDI out

User Manual

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction	2
2. Features	2
3. Package Contents.....	3
4. Specifications	3
5. Operation Controls and Functions	4
6. Connection Diagram	6

1. Introduction

The HDMI to 6G-SDI Converter accepts 4K, 1080p, 1080i, 720p or 480i signal and converts them to corresponding SDI output without any signal loss. In addition, it supports mirrored dual SDI out at the same time.

2. Features

- ✧ Auto detect HDMI input signals
- ✧ Compliant with SMPTE ST-2081, SMPTE 425M-AB, SMPTE 424M, SMPTE 292M, SMPTE 259M-C
- ✧ SDI operates at bit rates of 5.94Gb/s, 5.94/1.001Gb/s, 2.97Gb/s, 2.97/1.001Gb/s, 1.485Gb/s, 1.485/1.001Gb/s and 270 Mb/s
- ✧ Supports HDMI resolutions up to 4K2K@30Hz
- ✧ Built-in SDI re-driver for long distance
- ✧ Supports analog stereo audio in for DVI source
- ✧ Firmware upgradable for easy field service through external USB disk (FAT32 file system only)

3. Package Contents

- ✧ 1 x HDMI to 6G-SDI Converter unit
- ✧ 1 x 12V/1A Locking Power Adaptor
- ✧ 1 x User Manual

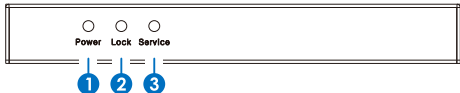
4. Specifications

Technical	
SMPTE Standard	ST-2081, 425M-AB, 424M, 292M, 259M-C
SDI Formats	525/29.97 NTSC, 625/25 PAL 720p50, 720p59.94, 720p60, 1080i50, 1080i59.94, 1080i60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60 3840x2160p23.98, 3840x2160p24, 3840x2160p25, 3840x2160p29.97, 3840x2160p30, 4096 x 2160p24
Video Bandwidth	5.94Gb/s, 5.94/1.001Gb/s, 2.97Gb/s, 2.97/1.001Gb/s, 1.485Gb/s, 1.485/1.001Gb/s and 270 Mb/s
Color Space	YCbCr 4:2:2
Color Depth	10-bit
Audio Formats	PCM 2CH with 48KHz sample rate
L/R Audio Formats	Analog Stereo 2CH
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)

Connections	
Inputs	1x HDMI Type A [19-pin female] 1x L/R Audio In [3.5mm Stereo Mini-jack] 1x USB Type A [Firmware Upgrade]
Outputs	2x SDI [BNC male]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	138mm [W] x 83.5mm [D] x 18mm [H]
Weight	305g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 12V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	3.6W (Max)
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

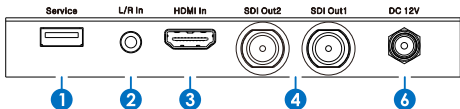
5. Operation Controls and Functions

5.1 Front Panel



- 1 **Power LED:** System power indicator.
- 2 **Lock LED:** Illuminates when input HDMI signal is locked properly.
- 3 **Service LED:** Illuminates then flickers when firmware upgrading.

5.2 Rear Panel



- 1 **Service:** Firmware upgrading port, connect to an external USB disk (FAT32 file system only).
- 2 **L/R In:** Connect to an analog stereo audio source.
- 3 **HDMI In:** Connect to HDMI source device such as HD camera.
- 4 **SDI Out:** Connect to SDI receiver devices.
- 5 **DC 12V:** Connect 12V/1A adaptor to AC wall outlet for power supply.

6. Connection Diagram

