# 12G-SDI/4X3G/HDMI2.0 Converter

## Description

12G-SDI/4X3G/HDMI2.0 Converter supports 2SI and SQD video format. Single link 12G-SDI or quad link 3G-SDI signals can be connected to HDMI 4K devices that support 4K HD, and the product also supports single link 12G-SDI or quad link 3G-SDI conversion! Its built-in down converter can realize 4K HD monitoring on HD TV. It is an ideal solution to convert the SDI signal of a broadcast camera into a consumer-grade HDMI signal! It can be widely used in various scenarios such as 4K non-linear editing, 4K studio, 4K broadcast system, 4K OB truck, 4K demonstration system, etc.The product is a full hardware architecture, with high stability, high reliability, and easy-to-use characteristics

## Features

1. 4K resolution SDI and HDMI converter
2. Support 12G-SDI to HDMI2.0 conversion
3. Support HDMI2.0 to 12G-SDI conversion
4. Support HDMI2.0 to 4X3G-SDI conversion
5. Support 12G-SDI to 4X3G-SDI conversion
6. Support 4X3G-SDI to 12G-SDI conversion
7. Support 4X3G-SDI to HDMI2.0 conversion
8. Support both 2SI and SQD 4X3G video format
9. NMS reserved for updating or management
10. Support LED indication
11. DIN switch to control conversion mode

## Order Info

| Model Number | Specification |
|---|---|
| FL2161 | Support Four conversion mode: 12G-SDI to HDMI2.0, 12G-SDI to 4X3G, 4X3G to 12G-SDI. 4X3G to HDMI2.0 |
| FL2163 | Support Six conversion mode: 12G-SDI to HDMI2.0, HDMI2.0 to 12G-SDI, HDMI2.0 to 4X3G, 12G-SDI to 4X3G, 4X3G to 12G-SDI, 4X3G to HDMI2.0 |

## Application

Remote OB Van/Truck Video Feeds, Broadcast Studio Camera Feeds, TV station/video conference, broadcast live transmission, Medical/Surgical Room Broadcast, Building to Building video conference, video wall controller, commend center.

## Spec

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|---|---|
| Video input | 12G-SDIx1 or 4x3G-SDI x 1 (two-way multiplexing) ,HDMI2.0x1 |
| UHD mode | Input 2SI/SQD, output 2SI/SQD selection (dip switch) |
| HD video format | 720p50.720p59.94.720p60.1080p23.98.1080p24.1080p25.1080p29.97. 1080p30. 1080p50. 1080p60. 1080i30.1080i50.1080i59.94.1080i60 |
| UHD video format | 3840x2160p: 60/59.94/50/30/29.97/25/24/23.98 |
| Video output | 12G-SDIx1 or 4x3G-SDI x 1 (two-way multiplexing) ,HDMI2.0x1 |
| Format conversion | Down conversion |
| SDI specification | SMPTE292M; SMPTE259M;SMPTE296M; SMPTE372M; SMPTE424M-B and SMPTE425M; SMPTE ST-2081 |
| Audio input | Embedded audio support |
| SDI video sampling | 4:2:2 and 4:4:4 |
| SDI audio sampling | TV standard sampling rate 48kHz;24bit |
| SDI color accuracy | 4:2:2 and 4:4:4 |
| SDI color space | YUV and RGB |
| SDI auto switching | Automatic detection of HD and 12G-SDI |
| HDMI video format | 525i29.97 NTSC.625i25 PAL.720p50.720p59.94.720p60.1080p23.98.1080p24. 1080p25.1080p29.97.1080p30.1080p50.1080p59.94.1080p60.1080i50. 1080i59.94.1080i60 2160p23.98.2160p24.2160p25.2160p29.97.2160p30. |
| HDMI color accuracy | 4:2:2 and 4:4:4 |
| HDMI color space | YUV and RGB |
| Software control | Upgrade the software through the RJ45 interface of Mac OS and Windows computer |
| Settings control | Small dial switch |
| Operating system | Mac 10.14 Mojave,Mac 10.15 Catalina or higher. Windows 7 and 10 operating systems. |
| Power Supply | 12V@3A |
| Power Consumption | About 6W |
| EMI/RFI | FCC Part 15 Class A, EU EMC standard |
| MTBF | >100000 hours |
| Size | 114X103X29mm |
| Weight | 0.7Kg |

## Diagram



**DIN switch to control conversion mode**