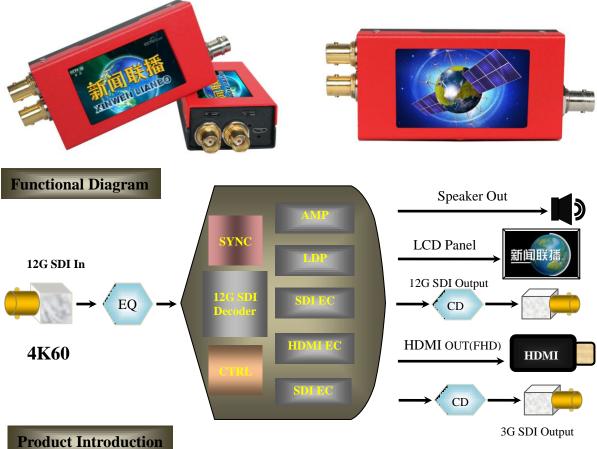


# 12G/4K SDI Converter

MD2192 (12G SDI to HDMI &SDI +LCD+Speaker)

Version: 1.0RC01



DeviceWell K grade signal converter, a 4K signal conversion device based on broadcast single-link 12G SDI signal. This device input supports up to single-link 12G

SDI signals, and is compatible with single-link 6G SDI signals and single-link signals below 3G,has built-in SDI signal equalization, serial clock recovery and line driver, and supports 12G SDI down conversion to 3G SDI signal output. At the same time, the device has built-in HDMI encoder, liquid crystal display driver and audio power amplifier, which can simultaneously realize functions such as SDI to HDMI /SDI video display on LCD, SDI audio de-embedding and audio power amplifier. It supports 4K signal down conversion to full HD HDMI signal output. Its SDI input signal frequency is automatically adapted without additional settings, can be applied to professional SDI video signals such as UHDTV/FHDTV/HDTV/SDTV, and is especially suitable for down conversion applications of broadcast-grade ultra-high definition digital signals.

The device is powered by MicroUSB, which can be applied to the USB device power supply system and supports mobile power supply such as charging treasure.

#### **Product Features**

- ◆1 single link 6G/12G SDI signal input
- SDI signal is displayed on the LCD
- ◆12G SDI embedded audio output to internal speakers
- ◆1channel 6G/12G SDI signal loop output
- ◆1 channel 1.5G/3G SDI signal down conversion output
- ◆1 channel full HD 1920\*1080P HDMI signal down conversion output
- Input 3G signal below device automatic through mode output
- Built-in clock recovery
- ◆ Special features can be customized

#### **Interface Description**

No.	Function	No.	Function			
1	12G SDI IN	2	12G SDI OUT			
3	Speaker and LCD switch	4	USB power supply and LED			
			indicator			
5	3G SDI OUT	6	HDMI OUT			

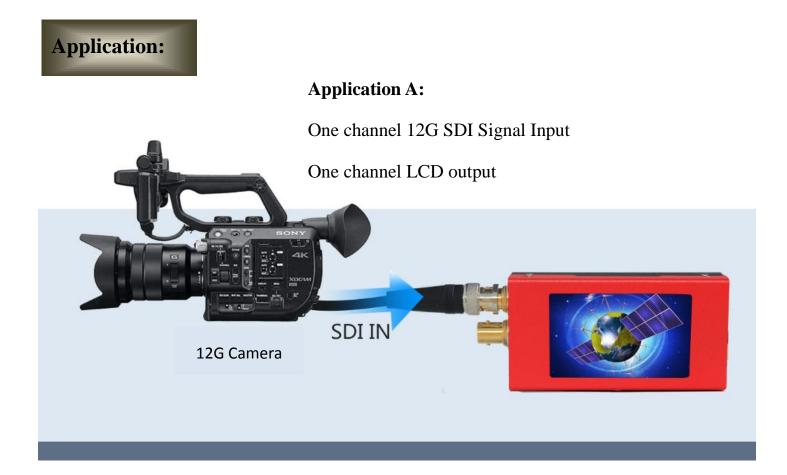
Product Parameters						
Product Name	12G SDI Down conversion converter					
Model No.	MD2192					
	Input signal	6G/12G Signal				
SDI Ganal Input	Bitrate	270MHZ~12GHZ				
SDI Signal Input	Connector	BNC complies with IEC169-8				
	Impedance	75Ω				
	Output signal	1.5G/3G SDI Signal				
	Bitrate	270MHZ~3GHZ				
SDI Video Output	Signal amplitude	800mV±10%				
	Connector	BNC complies with IEC169-8				
	Impedance	75Ω				
	Output signal	HDMI(FHD)				
HDMI Video Output	Bitrate	100MHZ~1.65GHZ				
HDMI Video Output	Connector	Standard HDMI signal				
	Impedance	100Ω				
I CD Dismlari	LCD Size	2.6 Inch				
LCD Display	Resolution	400 X 240				
Puilt in speaker	Power	0.5W				
Built-in speaker	Impedance	8 Ω				
	power supply	DC 5V(Micro USB)				
	Power	5W				
	Host size	123*48*30mm				
	Control panel	No				
General Parameters	Operating temperature	0°C∼50°C non-condensing				
	Storage temperature	-20°C~75°C				
	Operating humidity	20%~70%RH				
	Storage Humidity	0%~90%RH, non-condensing				

#### **Parameters Setting**

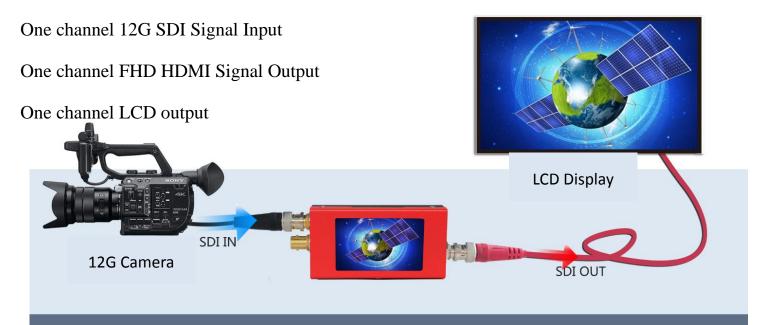


DIP		Resolution		
1	2			
Left	Left	Speaker: open, LCD:open		
Left	Right	Speaker: open, LCD:close		
Right	Left	Speaker: close ,LCD:open		
Right	Right	Speaker: close ,LCD:close		

Order Model								
Model	Function	LCD	Speaker	Chassis type	Power type	Other		
MD2192	12G SDI to HDMI+SDI	2.6 "	Yes	Mini 2019	Micro USB 5V	SDI/HDMI Down-conversion		
MD2092	12G SDI to HDMI+SDI	No	No	Mini 2019	Micro USB 5V	output: 4K->FHD,12G->3G		
MD1012	SDI to HDMI	No	No	Mini 2019	Micro USB 5V			
MD1021	HDMI To SDI	No	No	Mini 2019	Micro USB 5V			
MD1003	BIDI SDI/HDMI BIDI	No	No	Mini 2019	Micro USB 5V			
MD1103	BIDI SDI/HDMI BIDI	2.6 "	Yes	Mini 2019	Micro USB 5V			
MD1112	SDI to HDMI	2.6 "	Yes	Mini 2019	Micro USB 5V			
MD1121	HDMI To SDI	2.6 "	Yes	Mini 2019	Micro USB 5V			
MD1103	BIDI SDI/HDMI BIDI	2.6 "	Yes	Mini 2019	Micro USB 5V			



## **Application B:**

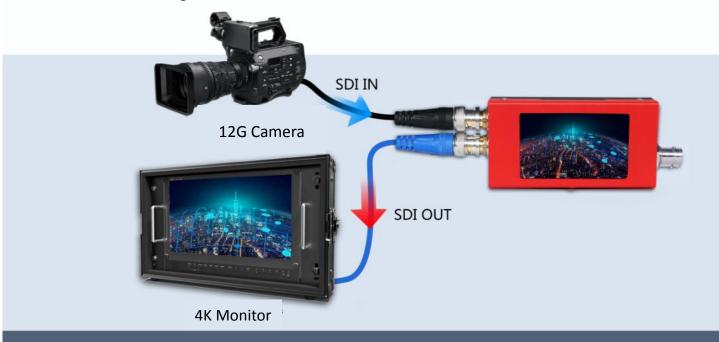


# **Application C:**

One channel12G SDI Signal Input

## One channel 12G SDI Signal Output

#### One channel LCD output



# **Application D:**

One channel 12G SDI Signal Input

# One channel 3G SDI Signal Output One channel LCD output

### **Application E:**

# Input: One channel 12G SDI Signal Input Output: One channel 12G SDI OUT One channel 3G SDI OUT One channel FHD HDMI OUT One channel LCD Output SAMWEN UV SDI IN HDMI OUT 12G Camera Monitor NWEN LIAN SDI OUT SDI OUT XINWEN LIVANE XINWEN LIVA **4K Monitor** Monitor **Product Size** ٩ ٩ 0 0 30.00 -123.00-92,00-

