

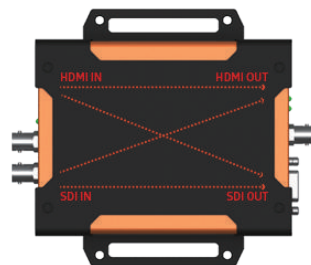
# ez-MD+

## HDMI/SDI Cross Converter with Audio Mux/Demux

LUMANTEK's ez-MD+ is a compact cross-converter for HDMI to SDI or SDI to HDMI. The genlock system allows synchronizing of signals to combine unpaired output signals. It supports XLR balanced audio support with audio delay controller.

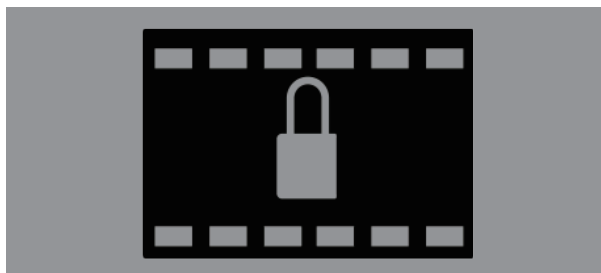


## HDMI and SDI Cross-Converting



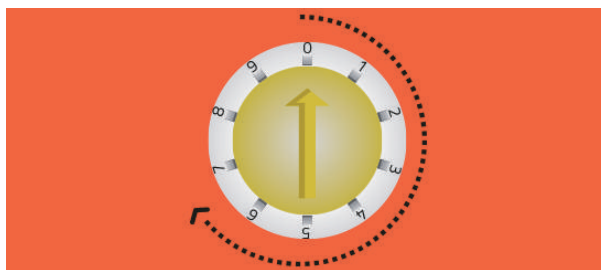
LUMANTEK's ez-MD+ is a compact Cross-Converter for HDMI to SDI or SDI to HDMI.

## Frame Synchronization



There is a "Free Running", "Input Lock", and "Genlock" mode to synchronize your video signal. Genlock system ensures proper synchronizing of the signals when aligning the source with external signal.

## Audio Delay Controller



Use the rotary switch to control the audio delay to the video.

## Up / Down Scaling and Screen Ratio Control

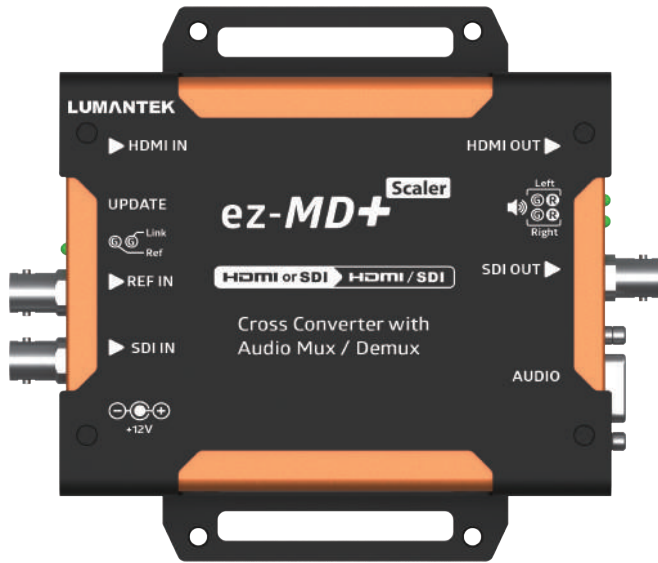


ez-MD+ can change the resolution of the incoming video to any resolution ranging from 480i to 1080p60. You can also change the video displaying ratio. You can choose from either 16:9 (Full) or 4:3 (Pillar Box) screen ratio to fit your requirement. All these functions are controlled by 'dip switch'

## Audio embedding/De-embedding with external XLR Audio



Complimentary 9 pin serial port to XLR"4 cable.



### Data Input

SDI Video Input: SD/HD/3G-SDI (BNC 75Ω) x1  
 HDMI Video Input: SD/HD/3G (HDMI Type A) x1  
 Reference Input: B.B , TRI (BNC 75Ω) x1  
 Audio Input: D-SUB 9PIN (Female) x1

Video Formats :

- 720x480i@59.94/60
- 720x576i@50
- 1280x720p@50/59.94/60
- 1920x1080i@50/59.94/60
- 1920x1080p@23.98/24/25/29.97/30
- 1920x1080p@50/59.94/60

### Data Output

SDI Video Output: SD/HD/3G-SDI (BNC 75Ω) x1  
 HDMI Video Output: SD/HD/3G (HDMI Type A) x1  
 Audio Output: D-SUB 9PIN (Female) x1

Video Formats :

- 720x480i@59.94 (DIP SW : 1111)
- 720x576i@50 (DIP SW : 0111)
- 1280x720p@50 (DIP SW : 1011)
- 1280x720p@59.94 (DIP SW : 0011)
- 1280x720p@60 (DIP SW : 1101)
- 1920x1080i@50 (DIP SW : 0101)
- 1920x1080i@59.94 (DIP SW : 1001)
- 1920x1080i@60 (DIP SW : 0001)
- 1920x1080p@23.98 (DIP SW : 1110)
- 1920x1080p@24 (DIP SW : 0110)
- 1920x1080p@25 (DIP SW : 1010)
- 1920x1080p@29.97 (DIP SW : 0010)
- 1920x1080p@30 (DIP SW : 1100)
- 1920x1080p@50 (DIP SW : 0100)
- 1920x1080p@59.94 (DIP SW : 1000)
- 1920x1080p@60 (DIP SW : 0000)



### Connections

Power : DC Power Input (DC Jack) x1, (Global Power Adapter)  
 Update : Debug (Micro-USB) x1  
 DIP Switch : (10 Pole) x1  
 Video Output Resolution, Video Output Ratio, Video Input(SDI or HDMI),  
 Audio(INT or EXT), Sync Mode(Free Running, Input lock, Genlock (B.B or Genlock TRI), Audio Gain(0 or -10dB)  
 ROTARY Switch : (10 Step) x1  
 Audio Delay Control (100ms Step)

### Display

Link (GREEN x1) : HDMI or SDI Input Video Detect  
 Ref (GREEN x1) : REF Input Signal Detect  
 Left (GREEN x1, RED x1) : INPUT AUDIO Level Meter(Left)  
 Right (GREEN x1, RED x1) : INPUT AUDIO Level Meter(Right)

### Electrical

Power Input: DC +11V to +13V  
 Power Consumption: 8W(max.)  
 Operation Temperature: 0~45°C

### Physical

Dimension: 130x100.4x26.9 mm (include connector)  
 Weight: 0.4 kg (0.88 lbs)