



BROADCASTING PRODUCTS
CATALOG

LUMANTEK

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Lumantek designs, develops and markets complex electronic test & measurement instruments, broadcast transmission and digital media convergence systems geared toward the specialized needs of Digital & Mobile TV, IPTV, Radio; along with Terrestrial and Satellite Broadcasting.

What sets us apart from others is we design our own modulations to ensure superior quality and maximizing value while minimizing unnecessary cost. Further, we have a bold presence in the end-to-end value chain of broadcast and production.

Lumantek is a trusted partner of service providers, enterprises, strategic industries such as automotive, broadcasting, hospitality, manufacturing, providing solutions encompasses the SD/HD content value chain from creation/edit to digital asset management to RF transmission and delivery.

LUMANTEK

ez-Pro
VS10

10 Inputs 1080p60
Full HD Video Switcher

ez-Pro VS10 is a 10 channels video switcher. It has 8 x 3G-SDI and 2 x HDMI inputs all installed with internal scalers. As output ports, it has 6 x 3G-SDI and 2 x HDMI. Internal scalers facilitate the user connecting video sources from different resolutions.

Customizable video switcher for your preference.

You can choose from many layouts to show the multiview screen. You can move them as you want and name as you want. Configure your own layout through our utility (Win OS or Mac OS), save it on a USB disk, and plug it into VS10 to load your layout.



1 Button Mapping

Assign video sources to console buttons of your preference.



All 10 inputs built in Scaler

ez-Pro VS10 comes with internal scalers in all input ports. Adjust freely using our touch screen menu.

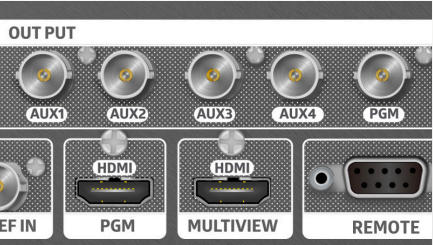


Intuitive LCD Touchscreen and Joy-stick control

All key menu or functions can be adjusted with touch-screen smoothly and extremely easily operated with rotary switch or Joy stick.

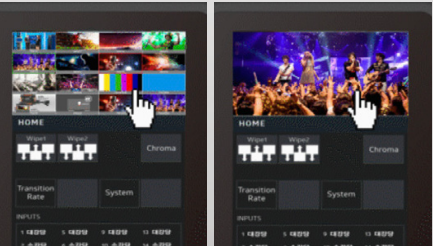
2 Multiview Layout

Choose different multiview layouts and assign sources as you want!



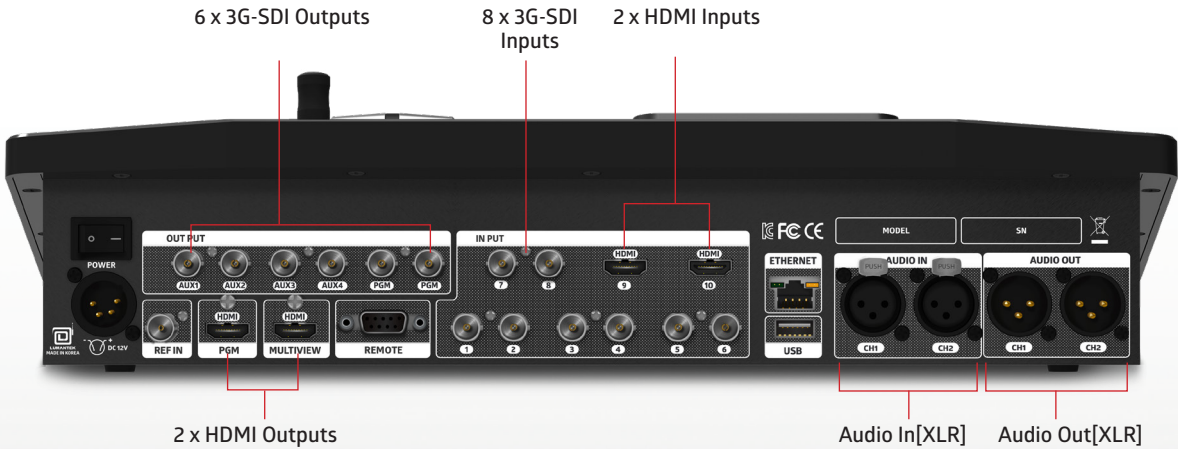
4 x Aux Output

You can use four auxiliary as extra video outputs to gain full broadcasting control. You can also choose different output for the AUX such as Preview, Program, Clean, and Multiview.



Multi-view & Program Output at LCD Screen

LCD screen is able to display Program and Multiview when you touch the screen.



PTZ Control

ez-Pro VS10
10 Inputs 1080p60
Full HD Video Switcher



ez-Pro VS4

Full HD Switcher

ez-Pro VS4 is a 4 channels video source switcher. Video sources can enter through HDMI and/or SDI ports and can be assigned to HD displays and projectors. Built-in scalars on each inputs can adjust output video resolution even though input sources have different resolutions. ez-Pro VS4 is born for worship, educational activities, wedding, ceremonies, theater, and live concert.



Full HD
Compact
Switcher



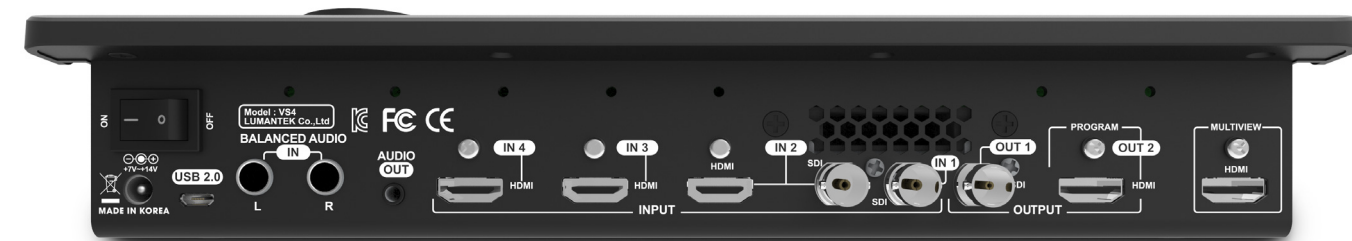
Chroma/
Luma



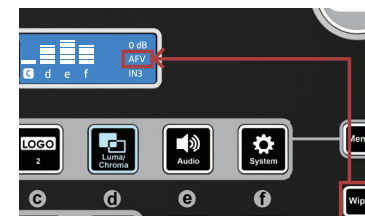
Logo
(full size)



Picture in
Picture



ez-Pro VS4 rear



Audio Follow Video (AFV)

You can activate or deactivate Audio-Follow-Video (AFV) mode by using the "WIPE" button. Audio volume automatically crossfade in and out when you switching the input source.



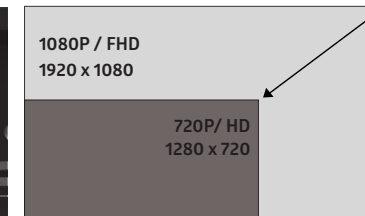
User-Friendly Multiview

You can monitor all sources at the same time on a screen through ez-Pro VS4. The multiview allows easy monitoring of all video inputs, audio levels, the preview (PVW) and the program (PGM) screen without confusion. Picture-in-Picture (PIP) can also be repositioned and resized through the multiview screen.



Audio Input/ Output

Stereo Balanced Audio input can be mixed with audio sources from 3G-SDI and HDMI video. Audio embedding and de-embedding supported.



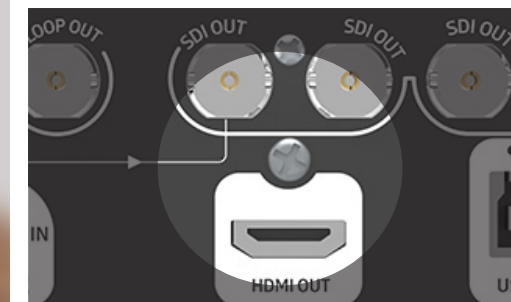
Internal Scalars for SD, HD, Full-HD

Each video input has a built-in scaler that can be set up to 1080p. The incoming video source resolution will be automatically displayed on the LCD screen. The output program (PGM) can be up/down scaled to any HD resolution up to 1080p.

ez-DSK

LIVE HD TITLER

ez-DSK allows easy application of computer graphics like subtitles, images, sequences, videos and widgets into your outgoing video source. Overlay method of ez-DSK doesn't take any extra video ports like conventional Fill/Key generators allowing zero delay transmission. It comes equipped with fail safe trigger mechanism to prevent any disruption if any malfunction of the device happens. All outgoing ports re-clock the video source for better quality video. ez-DSK distributes the outgoing source into 4 SDI and 1 HDMI, so it works as a distributor and a converter at the same time.



Distributor and Converter

ez-DSK distributes the video into 1 Clean source and 5 CG'ed sources (4 SDI & 1 HDMI). You do not need extra distributor or a converter for HDMI output.



CG software, ez-CGER

Use our dedicated complimentary software, ez-CGER, to create & overlay your CG's. Add images, videos, sequences, texts and more to your videos.

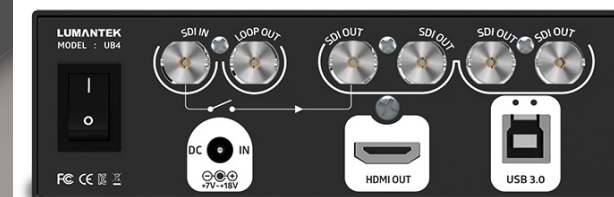


Zero Delay and Reclocking

Down stream keying technology overlays the fill key over the outgoing video stream causing zero delay.

Fail Safe

Feel safe with our Fail Safe mechanism. Your broadcasting won't fail even with powered off device due to malfunctioning or power outage (1 Output). Also, ez-DSK itself generates streaming source which will prevent any disruptions to subsequent broadcasting equipments even when the original input signals are out.



ez-CGER mini

▼ Software Features

- Prompt control CG out through short-cut key
- Scroll CG (Speed control from 1 to 10)
- Channel switching effect
- Various image formats support (jpg, gif, png, bmp)
- Support sequence (TGA format file for logo animation insertion and sequence effect)
- Support movie clip (WMV, AVI, MP4) & Size control available
- Provide various templates (equipped S/W internally)
- PIP (Picture in Picture) - Use input as extra channels
- PIP crop available
- All PIP features are excluded in CGER mini



ez-CGER mini UB2



USB 3.0 Live CG Fill/Key

ez-CGER mini is a simple and the smallest HD live graphic system for live conference and active video presentation. User can create and present powerful on-screen CG and texts in real time using PC. ez-CGER and CGER software are connected via USB 3.0 and generate fill/key signals to HD-SDI port.

ez-CGER mini and VS10 are perfect harmony for live titling and graphics.



All ez-pro VS10 SDI inputs can take in Fill & Key signals. Connect LUMANTEK's "ez-CGER mini" with ez-pro VS10 and broadcast your video with live titling and graphics!

Super affordable cost

With all-in one switcher solution, ez-Cger mini does not require additional equipment such as SDI card, and simply USB plug to your laptop for any HD high resolution event.

Fill/ Key SDI out



Movie Layer Inserting through USB 3.0

Simply insert movie clips layer in your broadcasting contents

Mini converter type compact design character generator (Live CG Fill/ Key)

Easy install through USB 3.0/ CG Output (Fill/ Key output)

Support various images and sequences (jpg, png, bmp, gif, tga)

Support various movie clip formats (wmv, avi, mp4)

Scroll text effect for broadcasting

Free software

User- friendly UI

USB 3.0 Connection and Lap-top PC control / Perfect GUI Support

ez-Distributor

DISTRIBUTION AMPLIFIER 12 X 3G SDI / 2 X HDMI OUT

LUMANTEK's ez-Distributor is a 14 channels distributor in 1RU size. It has 1 x HDMI and 1 x 3G-SDI inputs, and 2 x HDMI and 12 x 3G-SDI outputs. You can embed external audio and deembed incoming video's audio. With the LCD screen, it is very easy to monitor what is being played through the distributor.



LCD Monitoring

It is easy to check what is being played on the LCD screen. You can also check the audio bar on the screen to find out the audio level.



12 x SDI / 2 x HDMI

You have plenty of distribution ports with ez-Distributor.

- 12 x 3G-SDI
- 2 x HDMI 1.3



Embedded / De-embedded Audio

If you wish to add an external audio to the video which is being distributed, don't worry. ez-Distributor has a pair of XLR port for you to input a different audio. You can also take the sound out of the video.

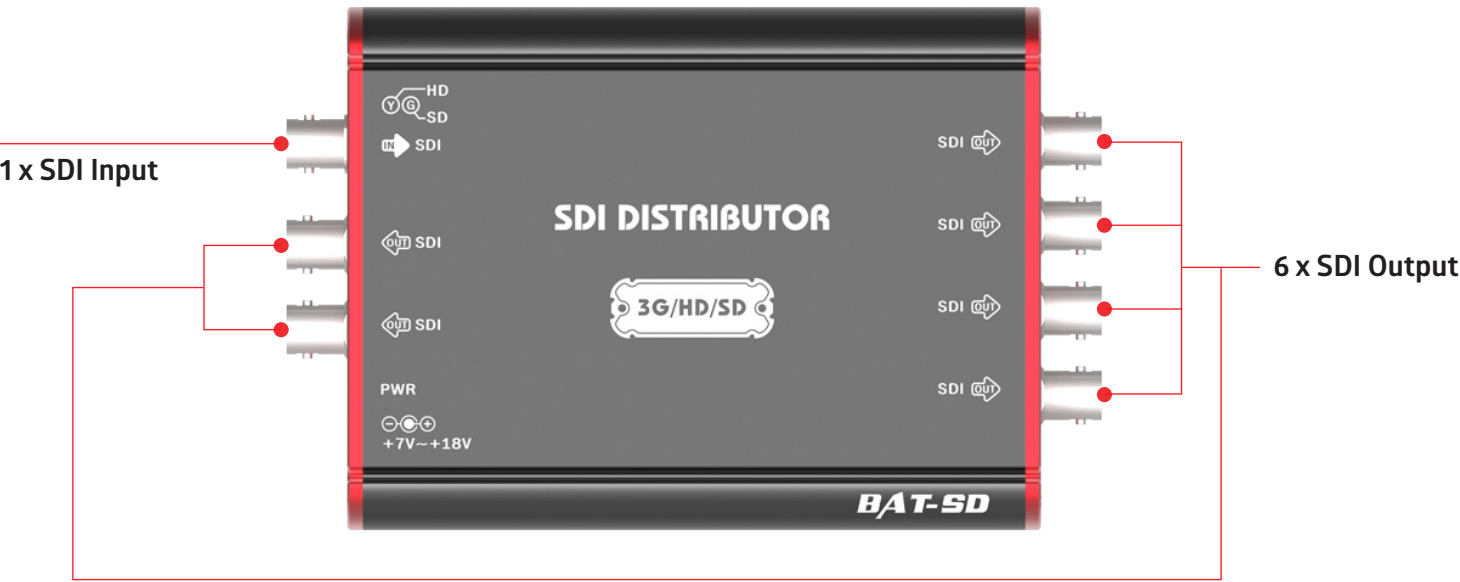


ez-Distributor

BAT-SD

SMALL SDI DISTRIBUTOR

With its size of a mini converter, the BAT Distributor can take in 1 video source and multiply it by 6 output channels. It functions with SD/HD/3G-SDI resolutions with 2 watts of power consumption.



1 to 6 Video Distribution

With BAT Distributor, you can multiply your video 6 times. This configuration is perfect when you need to send the same video signal to many monitors.



Re-Clocking and Amplification

Video signals going through BAT Distributor are amplified and sent out. Meaning, the signals can reach further cable distances from where the BAT Distributor is positioned.



Low Power Consumption

BAT Distributor operates with 2 watts of power making the maximum heat produced to be 50 degrees Celcius.

Input Electrical Specifications

Parameter	Units	Min.	Typ.	Max
SDI Input Cable Lengths				
SD - SDI (Belden 1694A)	250	-	m	-
HD - SDI (Belden 1694A)	170	-	m	-
3G - SDI (Belden 1694A)	155	-	m	-
RF Input				
Connector (1 port)	75 ohm, 1 x BNC type female			
Display				
Input SDI Detect	SD(Green), HD/3G(Yellow)			

Output Electrical Specifications

Parameter	Min.	Max.	Units	Typ.
Rise/ Fall time				
SD- SDI : rise/fall time (20-80%)	-	-	ps	600
HD- SDI : rise/fall time (20-80%)	-	-	ps	100
3G- SDI : rise/fall time (20-80%)	-	-	ps	100
Peck to Peck Voltage Swing				
SD/ HD/ 3G-SDI	720	880	mVpp	800
Overshoot / Undershoot				
SD/ HD/ 3G-SDI	-10	+10	%	-
RF Input				
Connector (1 port)	75 ohm, 1 x BNC type female			

Output Electrical Specifications

Parameter	Min.	Max.	Units	Typ.
DC Input Power	7	18	V	-
Lowest Power Consumption	-	2	W	-
Dimensions	131 x 99 x 28.4 (except connector) mm			
Weight	370g			

ez-Line
VM16
16 x 16 HD - SDI Router

ez-Line (HD-SSDI 16 x 16 Router) supports the standard HD - SDI signal and can configure HD broadcast signal input/ output. Through this unit user can send sharp and clear signals. In addition to this, user can utilize this device function and use variety purposes such as splitter and selector.



Right Routers for your applications

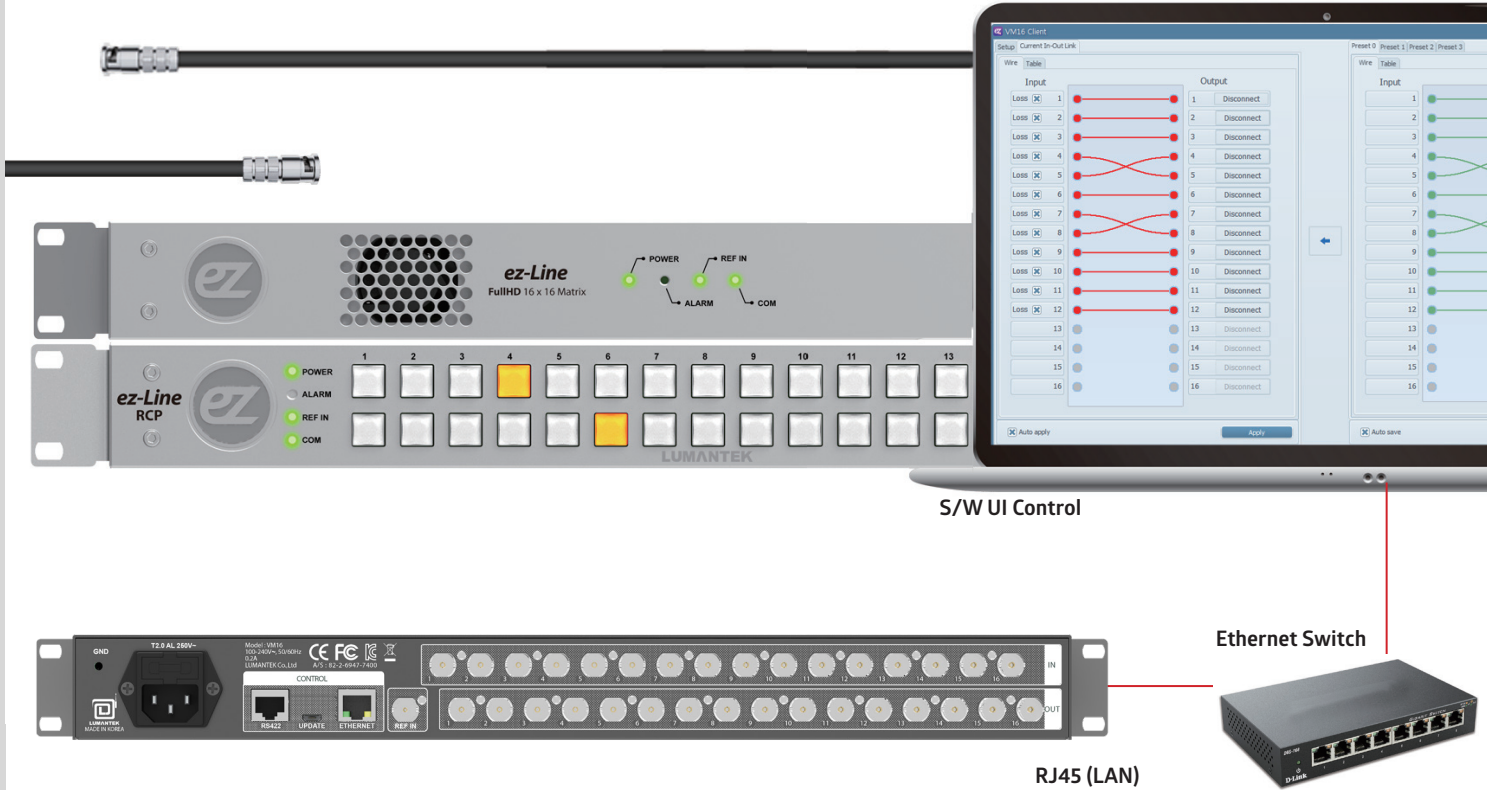
Cost saving simple system
Build for quality in quality out
1 RU / Right size for typical AV setups
Ideal Signal Control Media
Ethernet control (main unit) compatible

Flexibility, Practicality, Compatibility!

Common 16 x 16 3G SDI in and output layout
Built to the exact standards in the market
Durability guaranteed (Robust and reliable)
SDK & API support for user application

Easy RCP control

Simple web browser control 1RU RCP
Direct via RS-422 connection
Best suits your production environment



S/W UI Control

Ethernet Switch

RJ45 (LAN)

ez-SHV+

SDI TO HDMI CONVERTER WITH DISPLAY

LUMANTEK's ez-SHV+ also has a SDI LOOP output. Through the 2.7-inch LCD screen, you can monitor incoming video. By using the DIP Switch, you can select the resolution from 480i to 1080p. You can also control the LCD Brightness.



Eye-pattern (Eye-Diagram)

ez-SHV+ is useful for checking the input SDI cable's quality as a simple measurement tool through the displaying of eye-pattern. If the eye-pattern shows thick, then it means input video signal quality is poor.



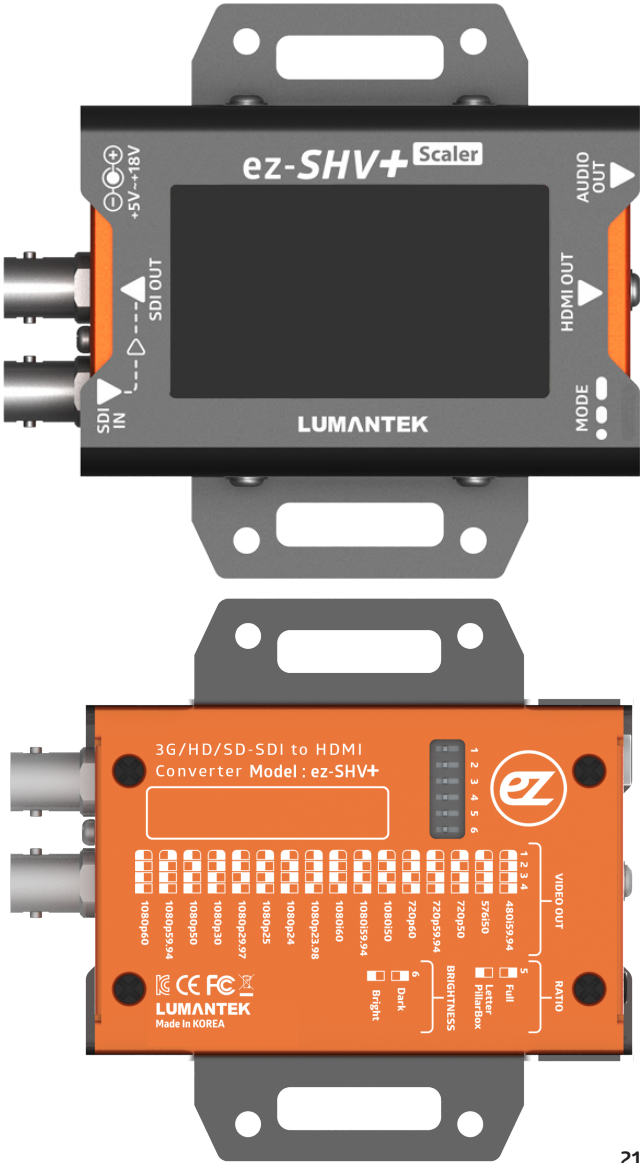
Mirrored output for teleprompter

It can be vertically flip(mirrored) the HDMI output by pressing the mode switch for more than 6 seconds while the LCD OFF. It is perfect to used for teleprompter and supports only HD resolutions.



Audio Level Meter

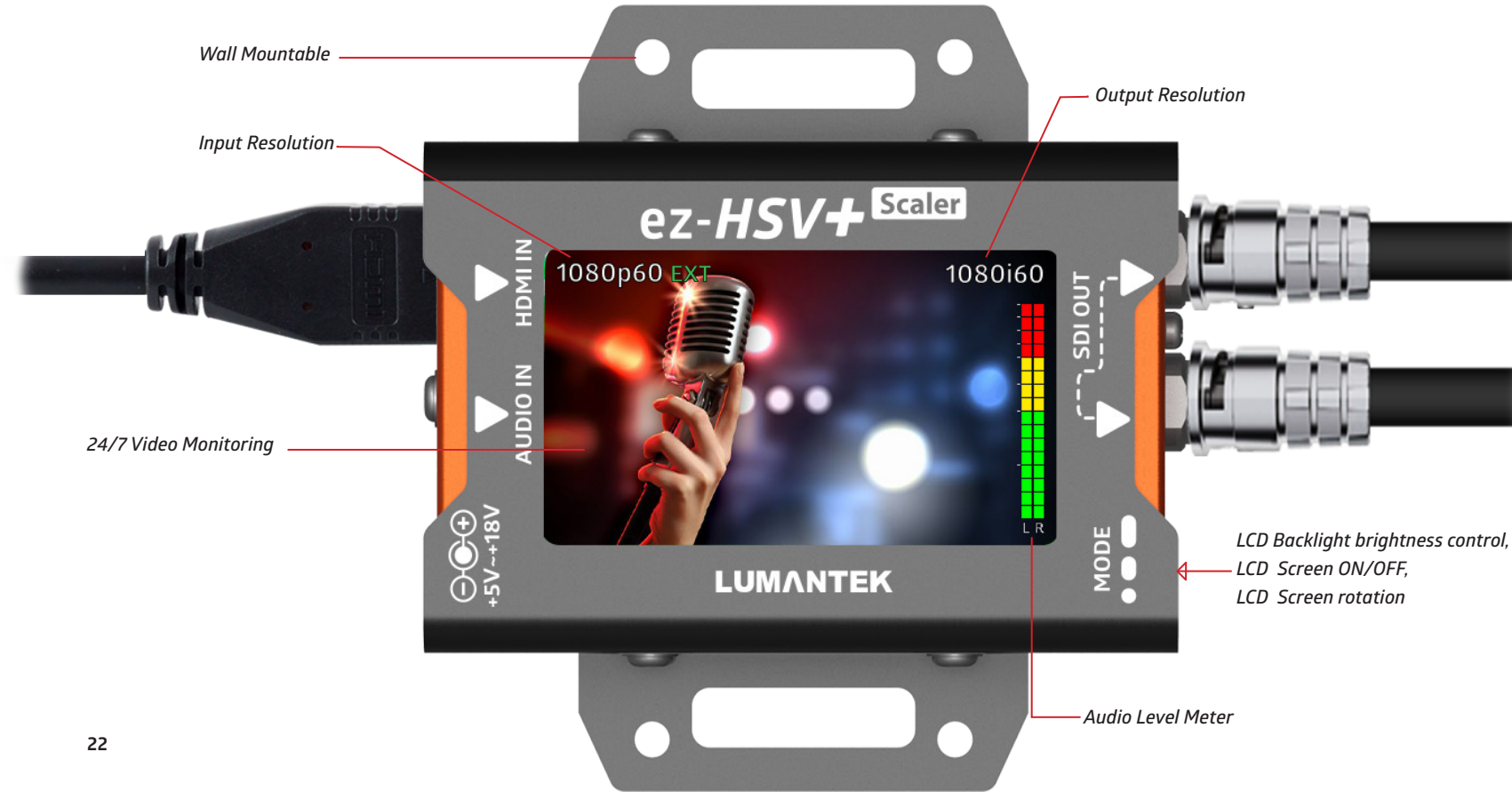
It is easy to check what is being played on the LCD screen. You can also check the sound through the audio level meter on the screen what is being played.



ez-HSV+

HDMI TO SDI CONVERTER WITH DISPLAY

Now you can monitor HDMI video with ez-HSV+. Features you can check are audio bar, incoming resolution and scaled out resolution. The ez-HSV+ comes with the capability to embed external audio as well to give you a more convenient way to plan your production scheme.



24/7 Video Monitoring

Through the 2.7 inch TFT LCD screen, you can monitor the incoming video and in/output source resolution.



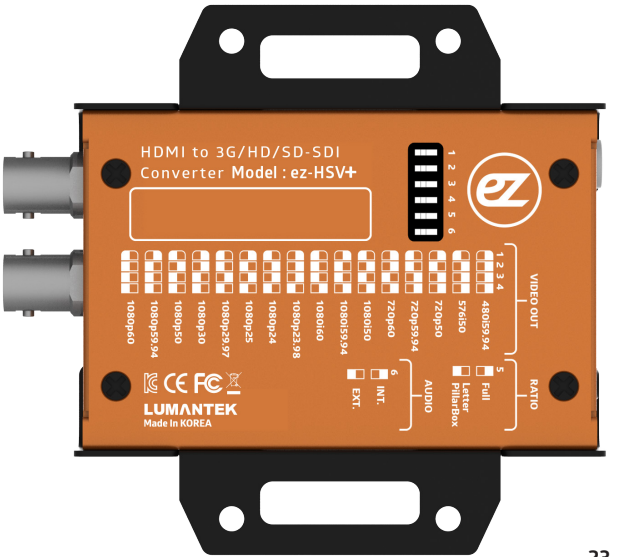
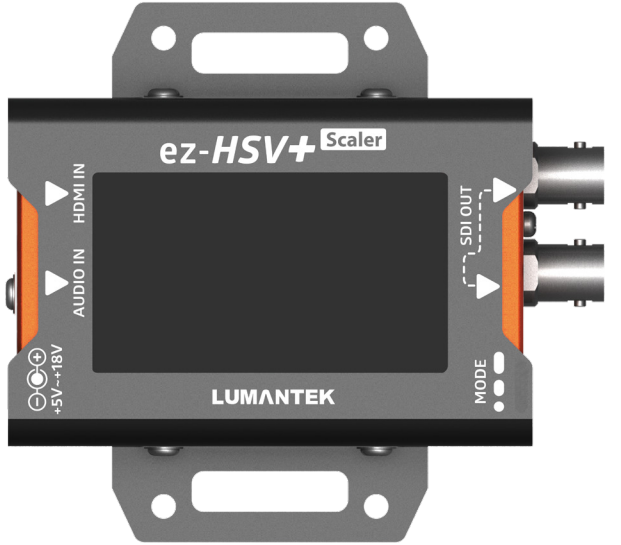
Audio Level Meter

You can also check the sound through the audio level meter on the screen. No more worries with audio!



Low Power Consumption

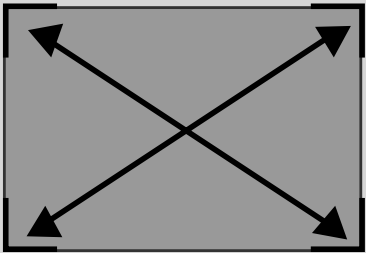
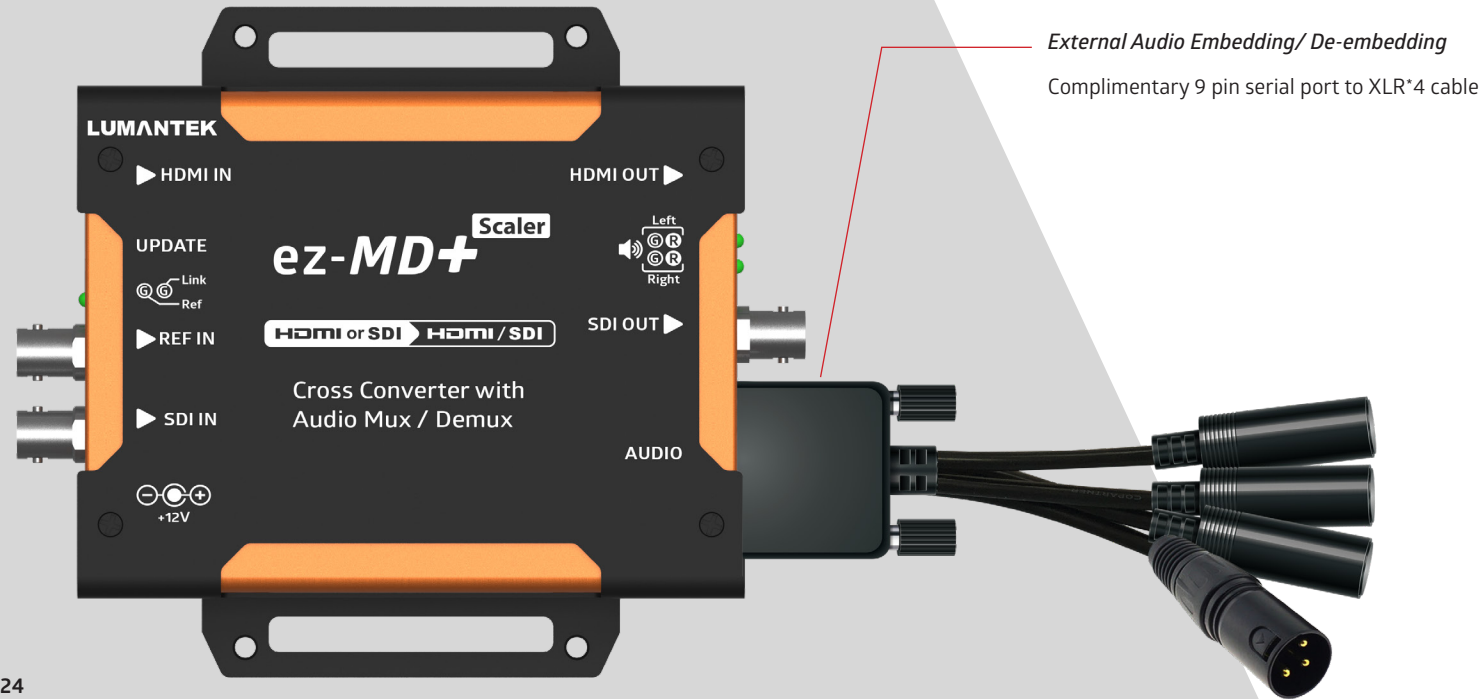
The Maximum power consumption of ez-HSV+ is less than 3 watts. Acceptable voltage ranges from 5v ~ 18v giving the user more flexibility in connecting power. You can also use a power bank to use this coverter.



ez-MD+

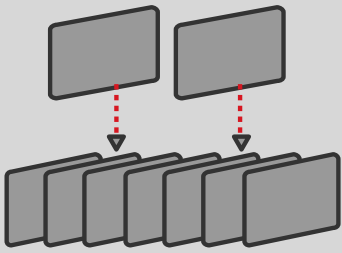
HDMI/SDI CROSS CONVERTER

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.



Scalable Resolutions

Scaler ez-Converters can change the resolution of the incoming video to any resolution ranging from 480i to 1080p60. Use the 'dip switch' on the side of the converter and match to the right resolution.



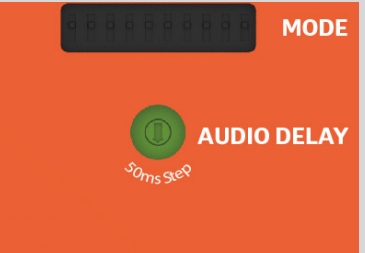
Frame Synchronizer

Frame Synchronizer will fill in the gaps or delete excess frames to match the input and output frame rates.



Genlock

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.



ez-Converter

ez-as+

CVBS to 3G/HD/SD-SDI Converter



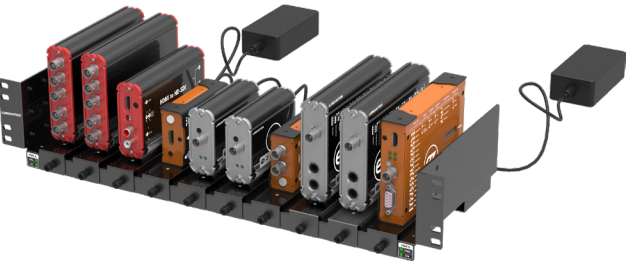
Input Electrical Specifications

Parameter	Units	Min.	Typ.	Max
Video formats				
NTSC / PAL	-	-	-	-
Audio				
6.35 mm (1/4") Phone Jack (Balanced) x2	-	-	-	-
CVBS				
Connector (1 Port)	-	75ohm, 1 x BNC type female		

Output Electrical Specifications

Parameter	Units	Min.	Typ.	Max
Video formats				
720 x 480i @59.94	-	-	-	-
720 x 576i @50				
1280 x 720p@50/59.94/60				
1920 x 1080i@50/59.94/60				
1920 x 1080p@23.94/24/25/29.97/30				
1920 x 1080p@50/59.94/60				
Audio sample rate				
48KHz				
SDI Output				
Connector (2port)	-	75ohm, 1 x BNC type female		

Rack mount



ez-Converter Rackmount 2 - 3 RU design

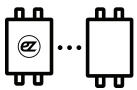
up to 10 units / 2 Power Supplies

(1 redundant power)

Dimension : 478 mm(w) x 44mm(h) x 350mm(d)



Low power
consumption



Compatibility
with other Brands



Audio
Sampling

ez-hs+

HDMI / VGA to 3G/ HD/ SD-SDI Converter



Input Electrical Specifications

Parameter	Units	Min.	Typ.	Max
Video formats				
HDMI	VGA			
720 x 480i @59.94	640 x 480p @60/72/75/85			
720 x 576i @50	800 x 600p @60/56/72/75/85			
1280 x 720p@50/59.94/60	1024 x 768p @60/70/75/85			
1920 x 1080i@50/59.94/60	1152 x 864p @75			
1920 x 1080p@23.94/24/25/29.97/30	1280x 720p@50/60			
1920 x 1080p@50/59.94/60	1280 x768p@60 @60RB			
	1280 x 800p @60			
	1280 x 960p @60			
	1280 x 1024p @60 /75			
	1360 x 768p @60			
	1440 x 900p @60			
	1400 x 1050p @60/75			
	1600 x 1200p @60			
	1680 x 1040p@60			
	1920 x 1080i @50/60			
	1920 x 1080p @24/50/60			
	1920 x 1200p @60			
Audio				
3.5mm stereo jack x 1	-	-	-	-
HDMI				
Connector (1port)	-	Type A		
VGA				
Connector (1port)	-	D-SUB 15 female		

Output Electrical Specifications

Parameter	Units	Min.	Typ.	Max
Video formats				
720 x 480i @59.94	-	-	-	-
720 x 576i @50				
1280 x 720p@50/59.94/60				
1920 x 1080i@50/59.94/60				
1920 x 1080p@23.94/24/25/29.97/30				
1920 x 1080p@50/59.94/60				
Audio Output				
48KHz	-	-	-	-
SDI Output				
Connector (2port)	-	75ohm, 2 x BNC type		

ez-sh

3G/HD/SD-SDI to HDMI Converter



Input Electrical Specifications

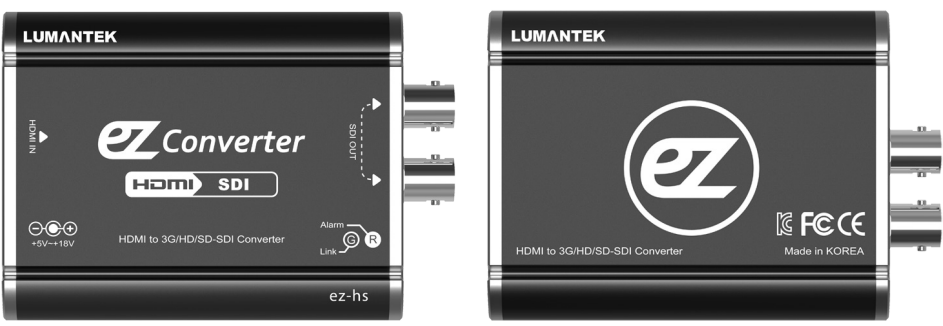
Parameter	Units	Min.	Typ.	Max
Video formats				
720 x 480i @59.94/60				
720 x 576i @50				
1280 x 720p@50/59.94/60	-	-	-	-
1920 x 1080i@50/59.94/60				
1920 x 1080p@23.94/24/25/29.97/30				
1920 x 1080p@50/59.94/60				
Audio Sample Rate				
48KHz				
SDI Input				
Connector (1 port)	-		75ohm, 1 x BNC type	

Output Electrical Specifications

Parameter	Units	Min.	Typ.	Max
Video formats				
720 x 480i @59.94/60				
720 x 576i @50				
1280 x 720p@50/59.94/60	-	-	-	-
1920 x 1080i@50/59.94/60				
1920 x 1080p@23.94/24/25/29.97/30				
1920 x 1080p@50/59.94/60				
Audio sample rate				
48KHz				
HDMI Output				
Connector (1port)	-		Type A	

ez-hs

HDMI to 3G/HD/SD-SDI Converter



Input Electrical Specifications

Parameter	Units	Min.	Typ.	Max
Video formats				
720 x 480i @59.94/60				
720 x 576i @50				
1280 x 720p@50/59.94/60	-	-	-	-
1920 x 1080i@50/59.94/60				
1920 x 1080p@23.94/24/25/29.97/30				
1920 x 1080p@50/59.94/60				
Audio Sample Rate				
48KHz				
SDI Input				
Connector (1 port)	-		Type A	

Output Electrical Specifications

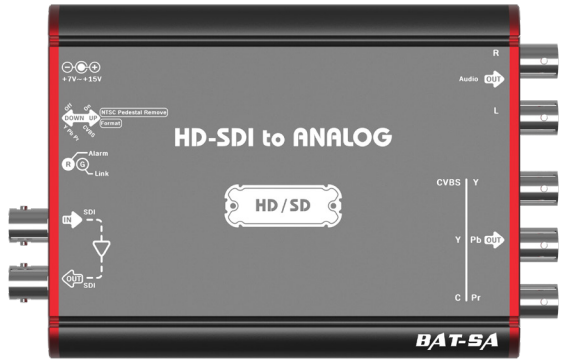
Parameter	Units	Min.	Typ.	Max
Video formats				
720 x 480i @59.94/60				
720 x 576i @50				
1280 x 720p@50/59.94/60	-	-	-	-
1920 x 1080i@50/59.94/60				
1920 x 1080p@23.94/24/25/29.97/30				
1920 x 1080p@50/59.94/60				
Audio sample rate				
48KHz				
HDMI Output				
Connector (2port)	-		75ohm, 2x BNC type female	

BAT-Converter



BAT-AS (Analog to HD-SDI)

Parameter	Typ.
Video formats	720(1440) x 480i @ 59.94/60, 720(1440) x 576i @ 50 1280 x 720p @ 50, 1280 x 720p @ 59.94/60 1920 x 1080i @ 50, 1920 x 1080i @ 59.94/60 1920 x 1080p @ 23.94/24, 1920 x 1080p @ 25, 1920 x 1080p @ 29.97/30
Video Inputs	HD Component (YPbPr) or SD Component/Composite/S-Video, 3x BNC
Video Outputs	SMPTE-259/272/274/292/296/299 HD/SD-SDI with embedded audio outputs, 1 x BNC
Audio Outputs	2 channels unbalanced, 2x RCA
Video ADC	12-Bits
Audio ADC	24-Bits, 48kHz



BAT-SA (HD-SDI to Analog)

Parameter	Typ.
Video formats	720(1440) x 480i @ 59.94/60, 720(1440) x 576i @ 50 1280 x 720p @ 50, 1280 x 720p @ 59.94/60 1920 x 1080i @ 50, 1920 x 1080i @ 59.94/60 1920 x 1080p @ 23.94/24, 1920 x 1080p @ 25, 1920 x 1080p @ 29.97/30 HD and SD-SDI (auto-selected), SMPTE-259/272/274/292/296/299/424/425
Video Inputs	1x BNC input, 1x BNC loop-through output Selectable Component (YPbPr) or Composite (CVBS and S-Video) by DIP switch NTSC and PAL support
Video Outputs	3x BNC output
Audio Outputs	2 channels RCA-style analog outputs at -10dBv



BAT-3HS (HDMI to HD-SDI)

Parameter	Typ.
Video formats	720(1440) x 480i @ 59.94/60, 720(1440) x 576i @ 50 1280 x 720p @ 50, 1280 x 720p @ 59.94/60 1920 x 1080i @ 50, 1920 x 1080i @ 59.94/60 1920 x 1080p @ 23.94/24, 1920 x 1080p @ 25, 1920 x 1080p @ 29.97/30 1920 x 1080p @ 50, 1920 x 1080p @ 59.94/60
Video Inputs	HDMI with embedded audio & auto mute when DVI input
Video Outputs	SMPTE-259/272/274/292/296/299/424/425 3G/HD/SD-SDI, 2 x BNC Supports 8 audio channels (4 stereo pairs)
Audio Outputs	- when the input audio sample rate is 48kHz - Supports 2 audio channels (1 stereo pair) - Auto detection of the input audio sample rate



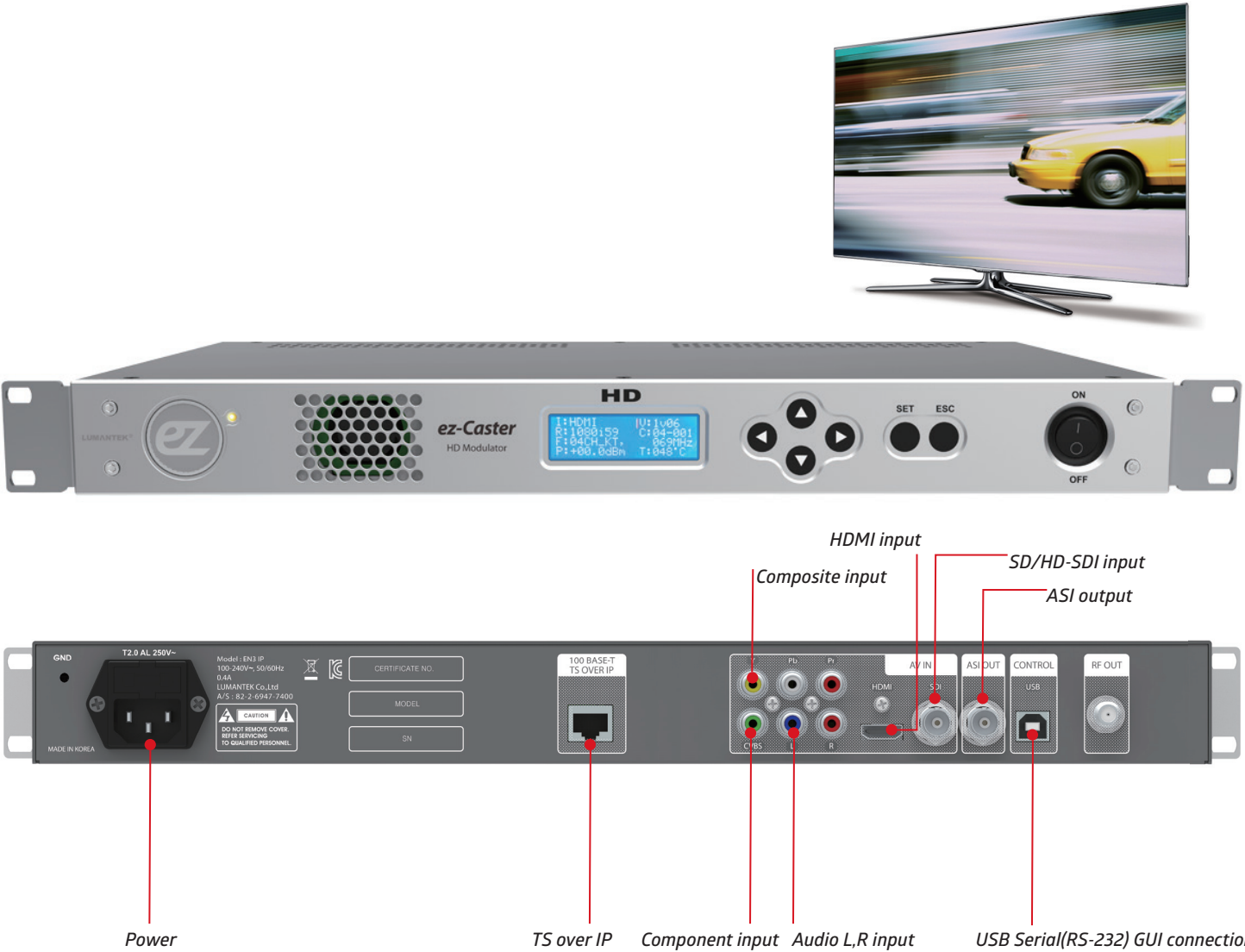
BAT-3SH (HD-SDI to HDMI)

Parameter	Typ.
Video formats	720(1440) x 480i @ 59.94/60, 720(1440) x 576i @ 50 1280 x 720p @ 50, 1280 x 720p @ 59.94/60 1920 x 1080i @ 50, 1920 x 1080i @ 59.94/60 1920 x 1080p @ 23.94/24, 1920 x 1080p @ 25, 1920 x 1080p @ 29.97/30 1920 x 1080p @ 50, 1920 x 1080p @ 59.94/60
Video Inputs	3G, HD, and SD-SDI (auto-selected), SMPTE-259/272/274/292/296/299/424/425 1x BNC input, 1x BNC loop-through output
Video Outputs	HDMI v1.3a, 24/30/36 bits per pixel, RGB, 2.25Gbps, SD, HD, 1080p50/60 HDMI Standard Type A connector
Video Outputs	HDMI embedded audio, 24 bit, 2 or 8 channels RCA-style analog outputs at -10dBV

ez-Caster EN3

MPEG2/ H.264 HD Encoder

ez-Caster is MPEG2/H.264 HD Encoder in 1RU device system. It has various interfaces (HD-SDI, HDMI, Component, Composite) and external audio. Also it process these input signals and mix it. ez-Caster is MPEG2/H.264 HD Encoder in 1RU device system. It has various interfaces (HD-SDI, HDMI, Component, Composite) and external audio. Also it process these input signals and mix it. Supports variable encoding latency from 150ms ~ 600ms. Encode baseband signal (HD-SDI, HDMI, Component, Composite). Offers the best picture quality compared to the original signal.



DTV Analyzer

High-level TS Analyzer/ Recorder/ Player

Realtime and offline analysis with versa-
tile interface IP, ASI, SMPTE, RF, Offline



MPEG Analyzer

Real-time /
Offline Analyzing



MPEG Recorder

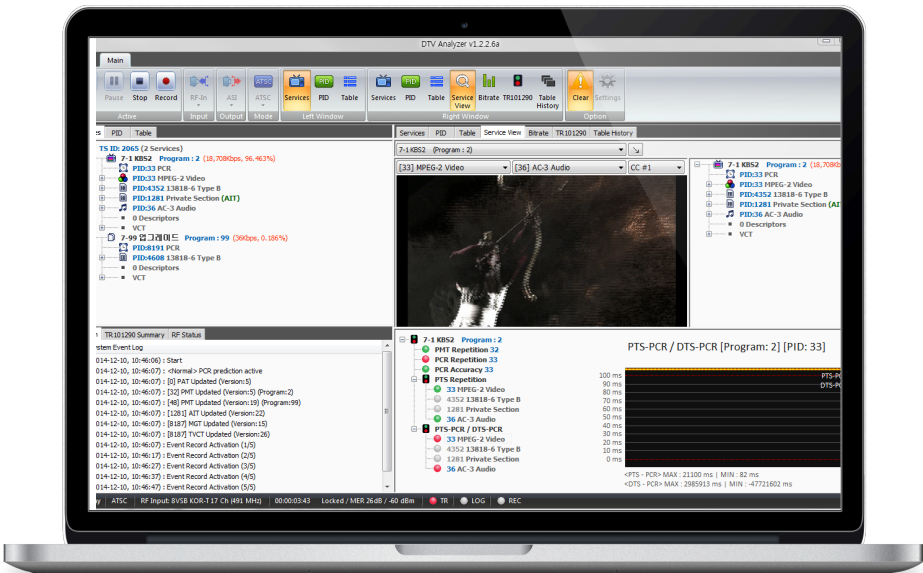
Real-time Record-
er for SMPTE / SDI



MPEG Player

Pre-recorded TS
Playback

DVB/ATSC/ QAM-B DTV Analyzer UI



IP/ ASI/ SMPTE/ RF/ Off-line

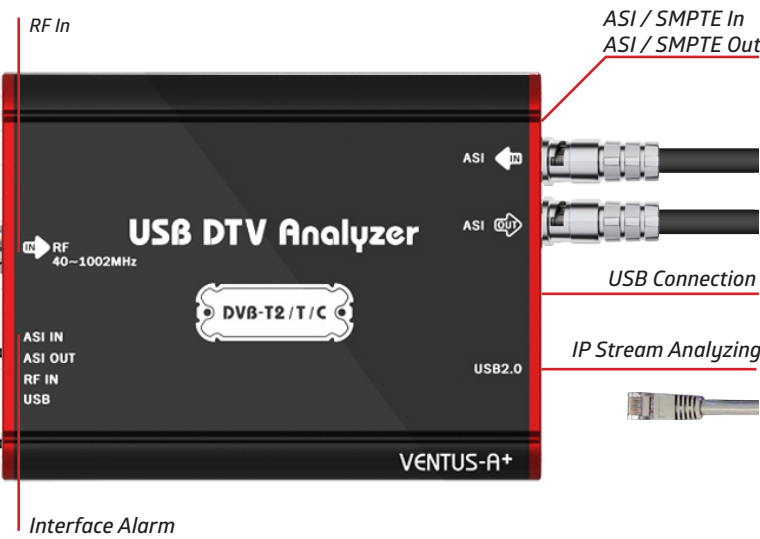
H/W Specifications (ATSC type)	
Demodulation	8VSB, OpenCable(64QAM, 256QAM)
Size	154mm x 77mm x 29mm
Power	USB 2.0 bus powered, no power supply required
RF input connector	75Ω F-Type 1ea
ASI/SMPTE310M input connector	75Ω BNC 1ea
ASI/SMPTE310M output connector	75Ω BNC 1ea
ASI input bit-rate	0~108Mbps
ASI output bit-rate	0~108Mbps
SMPTE310M input bit-rate	19.392Mbps
SMPTE310M output bit-rate	19.392Mbps
RF Input Frequency Range	40 ~ 1002 MHz
RF Input Level	+7 ~ -84 dBm

S/W Specifications (ATSC type)	
TS Input	ASI, SMPTE310M
TS Out	ASI or SMPTE310M
(Allow when input is ASI, SMPTE310M)	
Analysis Mode	MPEG-2, ATSC, DVB
7 Analysis Window Tab	Service, PID, Table, Service View, Bit-rate, TR 101 290, Table History
Closed caption	
Real-time decoder	
Recommended system requirements	
CPU : better than Intel Core i3 3.1GHz (Sandy Bridge)	
RAM : better than 2GB	
OS : Window 7	
Resolution : bigger than 1680x1050	

H/W Specifications (DVB type)	
Demodulation	DVB-T2, DVB-T, DVB-C
Size	154mm x 76.8mm x 28.4mm
Power	USB 2.0 bus powered, no power supply required
RF input connector	75Ω F-Type 1ea
ASI input connector	75Ω BNC 1ea
ASI output connector	75Ω BNC 1ea
ASI input bit-rate	0~108Mbps
RF Input Frequency Range	40 ~ 1002 MHz
RF Input Level	DVB-T2:+5~-78 dBm DVB-T:+7~-83 dBm DVB-C:+2~-67 dBm

S/W Specifications (DVB type)	
TS Input	ASI,SMPTE310M,File, IP (UDP/Ts or UDP/RTP/TS),RF
TS Out	ASI or SMPTE310M
(Allow when input is ASI, SMPTE310M)	
Analysis Mode	MPEG-2,ATSC,DVB
7 Analysis Window Tab	Service, PID, Table, Service View, Bit-rate, TR 101 290, Table History
Closed caption	
Real-time decoder	
Recommended system requirements	
CPU : better than Intel Core i3 3.1GHz (Sandy Bridge)	
RAM : better than 2GB	
OS : Window 7	
Resolution : bigger than 1680x1050	

USB type DTV Analyzer (DVB type)



USB type DTV Analyzer (ATSC type)



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