



LUMANTEK EZ-SHV+ SDI to HDMI Converter with Display and Scaler User Manual

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EZ-SHV+ SDI to HDMI Converter with Display and Scaler

ez-SHV+ SDI to HDMI Converter with Display and Scaler

Operation manual
Manual Updated AUGUST. 2020

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Warranty Period

Lumantek's products comes with One(1) year limited warranty. Please contact below if you need more information.

LUMANTEK CUSTOMER SERVICES

gs@lumantek.com

TEL: +82-2-6947-7429

FAX: +82-2-6947-7440

01. ez-SHV+ (SDI to HDMI Converter with Display and Scaler)

Lumantek's ez-SHV+ is an SDI to HDMI converter with Display and Scaler. The ez-SHV+ does more than just covering. Through its 2.7 inch TFT-LCD, it displays the video input. The display also shows an eye pattern for video quality monitoring, the resolution of incoming video and approximate cable length relative to the quality of the video.

Features

1. Inputs & outputs

Input: 1 x SD/HD/3G-SDI (BNC 75)

Output: 1 x SD/HD/3G HDMI (Type A)

1 x SD/HD/3G-SDI loop (BNC 75)

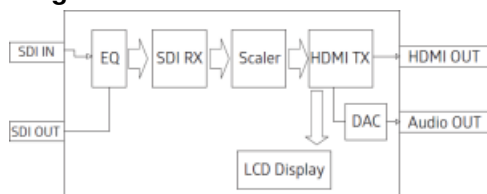
1 x Analog audio stereo

2. Supports SD/HD/3G

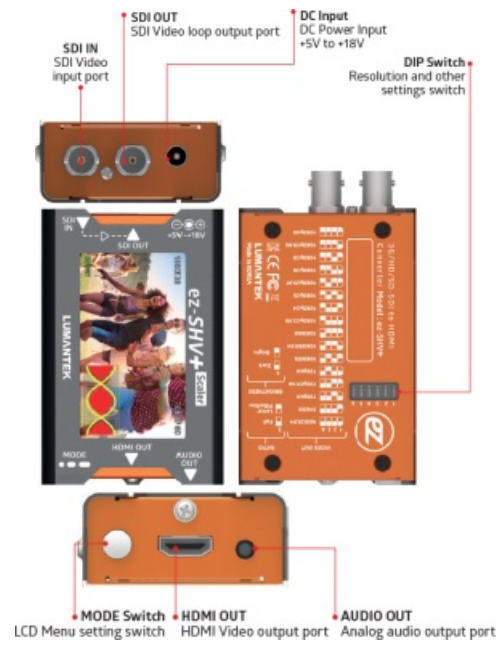
3. TFT-LCD Display (2.7 inch)

4. Push switch for mode change

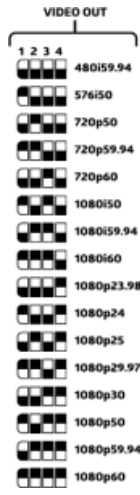
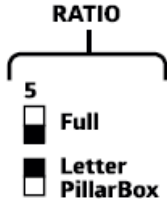
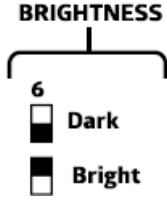
Diagram



02. Interface Specifications



02. Interface DIP Switch Settings

 VIDEO OUT 1 2 3 4 480i59.94 576i50 720p50 720p59.94 720p60 1080i50 1080i59.94 1080i60 1080p23.98 1080p24 1080p25 1080p29.97 1080p30 1080p50 1080p59.94 1080p60	VIDEO OUT : Video output resolution (Position 1, 2, 3, 4) – 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)
 RATIO 5 - Full - Letter PillarBox	RATIO : Video output screen ratio (Position 5) – FULL 16:9 (DIP SW : 1) – Latter 4:3 or Pillar Box (DIP SW : 0)
 BRIGHTNESS 6 - Dark - Bright	BRIGHTNESS : LCD brightness (Position 6) – Dark (DIP SW : 1) – Bright (DIP SW : 0)

02. Interface

LCD Displays

Input Resolution SDI Input resolution * Shown as “Unknown” where there is no input. * If input is 3G Level-B, 1080P60B will be displayed.

HDMI Output Resolution * Resolution configured through DIP Switch



Input Cable Length Shows approximated cable length in 3 stages (SHORT, MEDIUM, LONG). * Please refer to the chart below for your reference. * Reference cable is Belden 1694A cables.

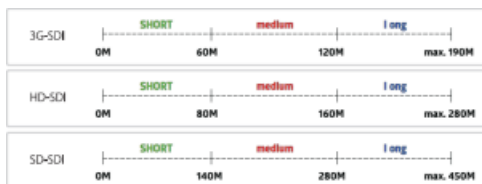
Input Video SDI input video display * In case 3G-SDI Level-B is inserted, grey scale bars will be shown instead

SHORT

medium

Input Audio Level Bar Shows Audio Level Bar if input audio signal quality is poor.

Input SDI Eye Pattern Shows thick eye pattern if input video signal quality is poor.



02. Interface

LCD Displays

LCD Display ON/ OFF



an 6 sec

Turn off the display by pressing and holding the mode switch for less th



an 6 sec

Turn on the display by pressing and holding the mode switch for less th

02. Interface LCD Displays

SDI input eye pattern or audio level meter



Turn on the eye pattern by pressing the mode switch for less than 1 sec



ec.

Turn on audio level meter by pressing the mode switch for less than 1 s

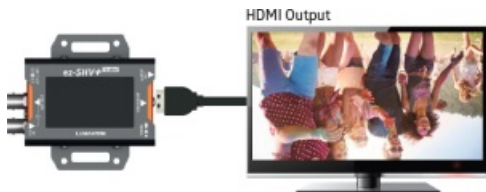
02. Interface LCD Displays

LCD monitor rotation (by 0 or 180 degrees)

	Rotate to 0 degrees by pressing and holding for more than 6 sec
	Rotate to 180 degrees by pressing and holding for more than 6 sec

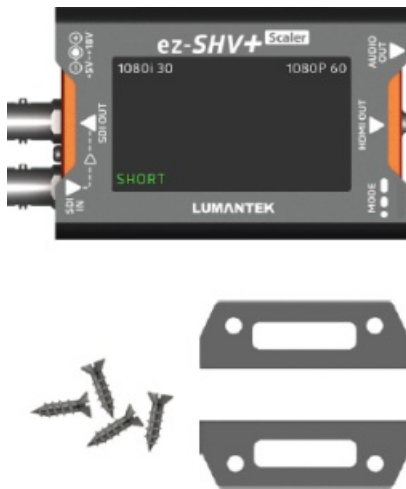
02. Interface LCD Displays

ON/OFF HDMI mirrored output for teleprompter HDMI Output

 Please TURN OFF the LCD Display first. TURN ON the mirrored output application by pressing the mode switch for more than 6 seconds while the LCD OFF. *Please refer to page 9 for the LCD Display ON/OFF *Supports only HD resolutions
 Please TURN OFF the LCD Display first TURN OFF the mirrored output application by pressing the mode switch for more than 6 seconds while the LCD OFF. *Please refer to page 9 for the LCD Display ON/OFF *Supports only HD resolutions

03. Product Configuration

ez-SHV+



AC to DC adapter



Adapter specifications AC in : AC100 to 240V,50/60Hz DC out : DC12V, 1A

04. Technical Specifications

Data Input

SDI Video Input : SD/HD/3G-SDI (BNC 75) x1 Video Formats : – 720x480i@59.94/60 – 720x576i@50 – 1280x720p@50/59.94/60 – 1920x1080i@50/59.94/60 – 1920x1080p@23.94/24/25/29.97/30 – 1920x1080p@50/59.94/60 (3G-SDI Level-B not supported)

Data Output

SDI LOOP Output : SD/HD/3G-SDI (BNC 75) x1 Audio Output : Stereo Jack x1 HDMI Video Output : SD/HD/3G (HDMI Type A) 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 DIP Switch : (6 Pole) x1 Video In/Out Resolution, Video Output Ratio, LCD Brightness **MODE :** (Push Switch) x1 LCD ON/OFF, Menu Selection

Physical Dimension : 86.3×57.2×26.6 (mm)(include connector) Weight : 0.3 kg (0.66lbs)

gs@lumantek.com TEL(Dir) : +82-2-6947-7429 FAX: +82-2-6947-7440

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Manuals+,