

ez-SHV+

SDI to HDMI Converter with Display and Scaler

Operation manual

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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 converting. 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

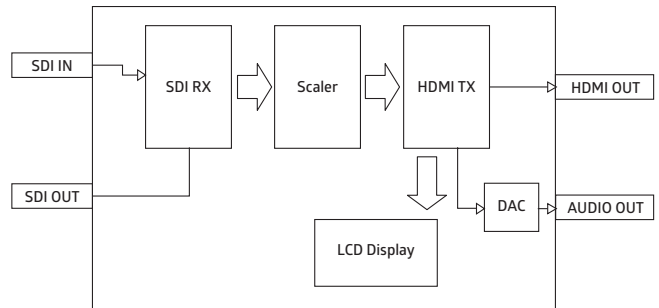
- Input: 1 x SD/HD/3G-SDI (BNC 75Ω)
- Output: 1 x SD/HD/3G HDMI (Type A)
- 1 x SD/HD/3G-SDI loop (BNC 75Ω)
- 1 x Analog audio stereo

② Supports SD/HD/3G

③ TFT-LCD Display (2.7 inch)

④ Push switch for mode change

Diagram



02. Interface

Specifications



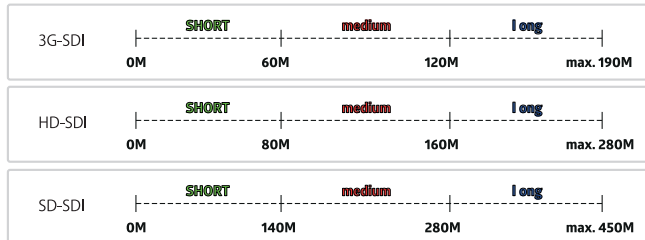
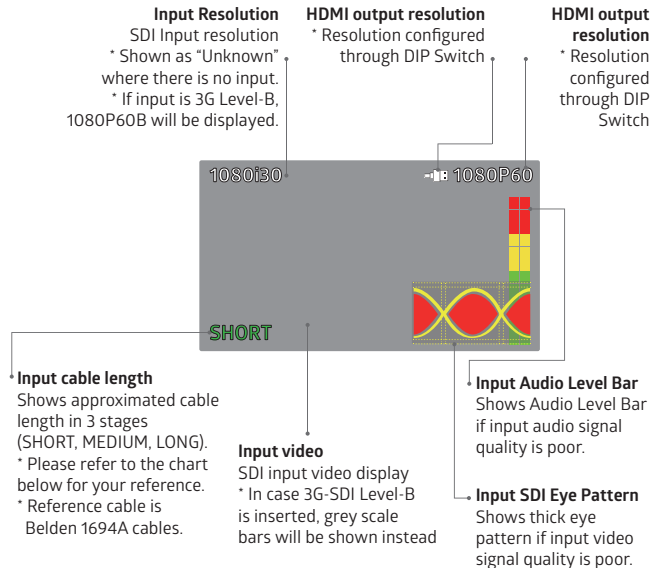
02. Interface

DIP Switch Settings

<p>VIDEO OUT</p> <p>1 2 3 4</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 480i59.94</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 576i50</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 720p50</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 720p59.94</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 720p60</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080i50</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080i59.94</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080i60</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080p23.98</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080p24</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080p25</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080p29.97</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080p30</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080p50</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080p59.94</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1080p60</p>	<p>VIDEO OUT : Video output resolution (Position 1, 2, 3, 4)</p> <ul style="list-style-type: none"> - 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)
<p>RATIO</p> <p>5</p> <p><input type="checkbox"/> Full</p> <p><input type="checkbox"/> Letter PillarBox</p>	<p>RATIO : Video output screen ratio (Position 5)</p> <ul style="list-style-type: none"> - FULL 16:9 (DIP SW : 1) - Letter 4:3 or Pillar Box (DIP SW : 0)
<p>BRIGHTNESS</p> <p>6</p> <p><input type="checkbox"/> Dark</p> <p><input type="checkbox"/> Bright</p>	<p>BRIGHTNESS : LCD brightness (Position 6)</p> <ul style="list-style-type: none"> - Dark (DIP SW : 1) - Bright (DIP SW : 0)

02. Interface

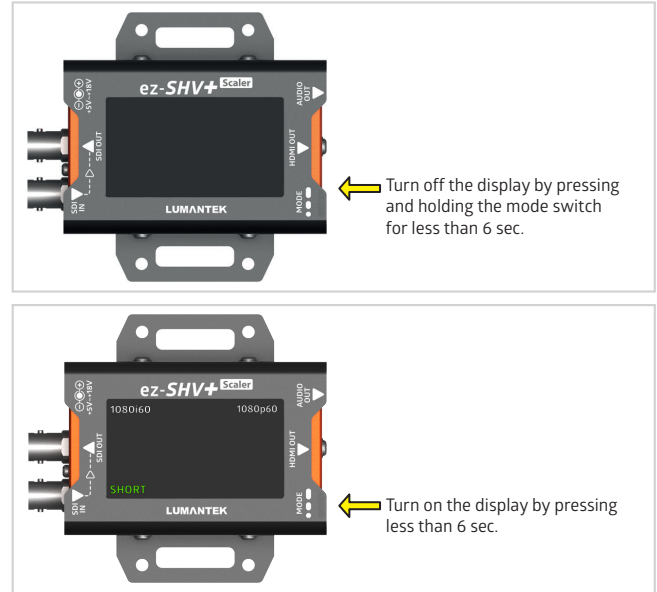
LCD Displays



02. Interface

LCD Displays

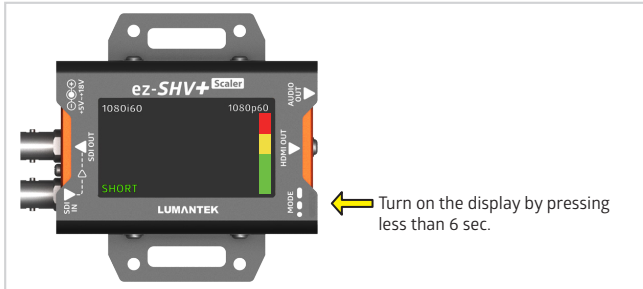
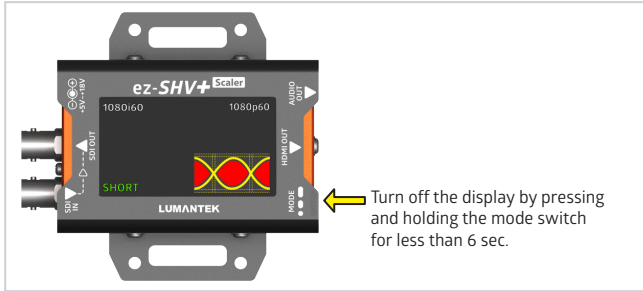
① LCD Display ON/ OFF



02. Interface

LCD Displays

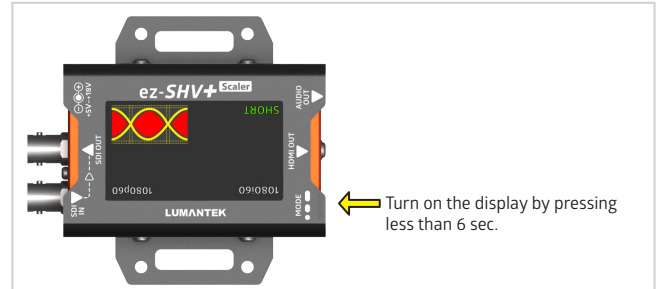
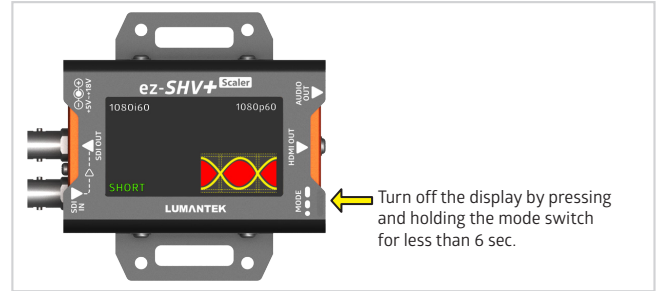
② SDI input eye pattern ON/ OFF



02. Interface

LCD Displays

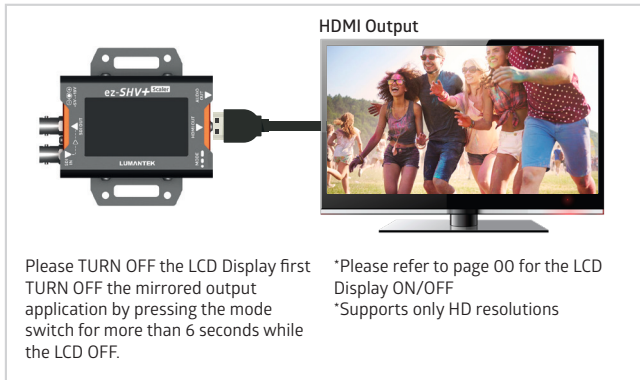
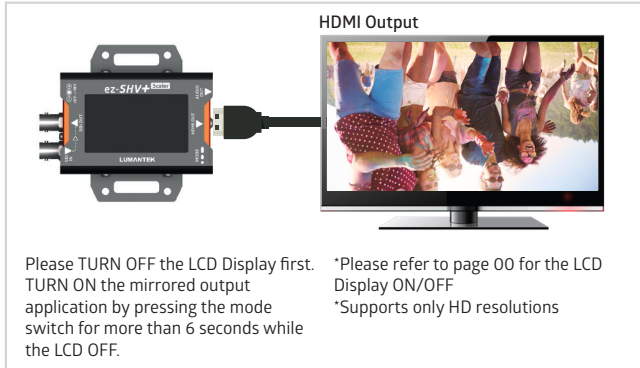
③ LCD monitor rotation (by 0 or 180 degrees)



02. Interface

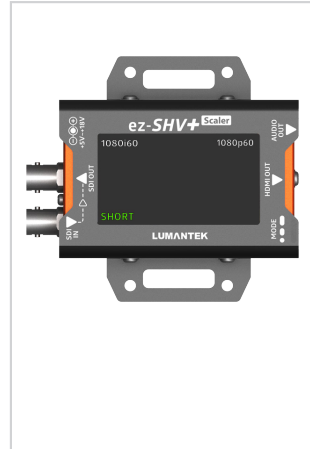
LCD Displays

④ ON/OFF HDMI mirrored output for teleprompter



03. Product Configuration

ez-SHV+



AC to DC adapter



04. Technical Specifications

Data Input

SDI Video Input: SD/HD/3G-SDI (BNC 75Ω) 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 75Ω) 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

Display

2.7 inch TFT LCD : Input Video Display, Input SDI Eye Pattern, In/Output Video Resolution Display, Input Cable Length

Electrical

Power Input: DC +5V to +18V

Power Consumption: 3W(max.)

Operation Temperature: 0~45 C

Physical

Dimension: 86.3x57.2x26.6 (include connector)

Weight: 0.3 kg(typ.)

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