

ez-SHV+

***SDI to HDMI
Converter with
Display and Scaler***

OPERATION
MANUAL

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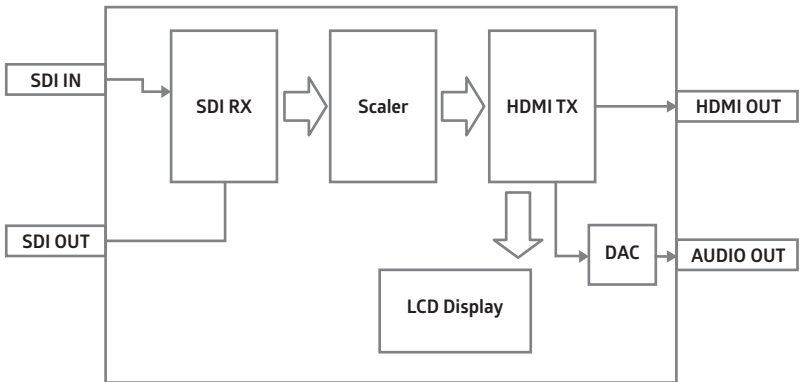
01. ez-SHV+ (SDI to HDMI Converter with Display and Scaler)

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 eye pattern for video quality monitoring, resolution of incoming / outgoing video, and approximate cable length relative to the quality of the video resolution and cable.

Features

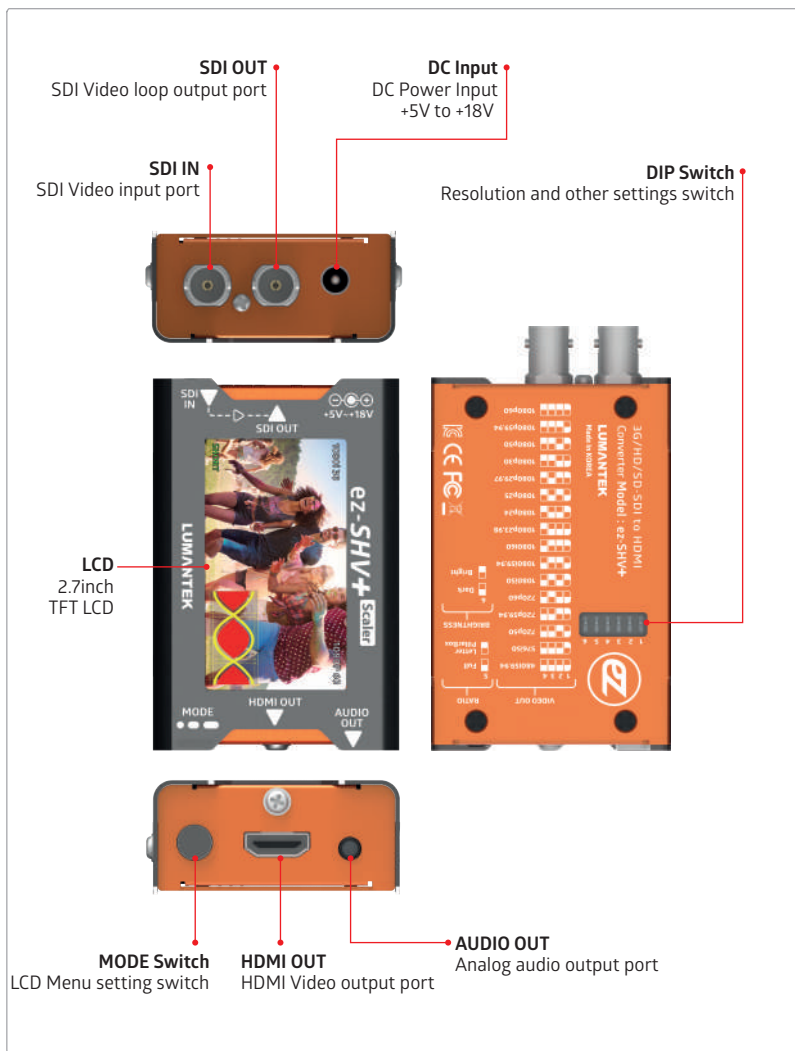
- ① Inputs & outputs
 - Input: 1 x SD/HD/3G-SDI (BNC 75Ω)
 - Output: 1 x SD/HD/3G HDMI (Type A)
 - 1 x SD/HD/3G-SDI loop (BNC 75Ω)
 - 1 x Analog audio (3.5mm stereo jack)
- ② Supports SD/HD/3G
- ③ TFT-LCD Display (2.7 inch)
- ④ Push switch for mode change

Diagram



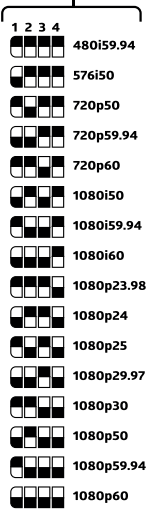


02. Interface

Specifications



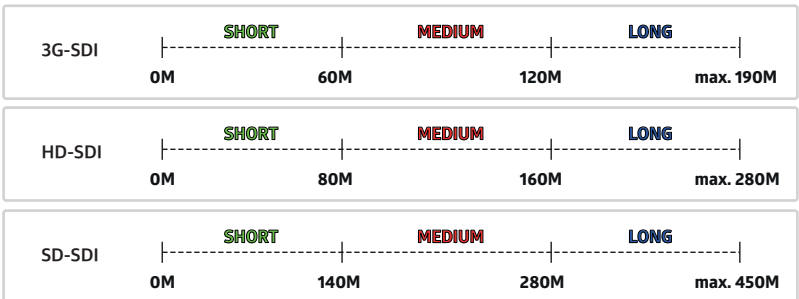
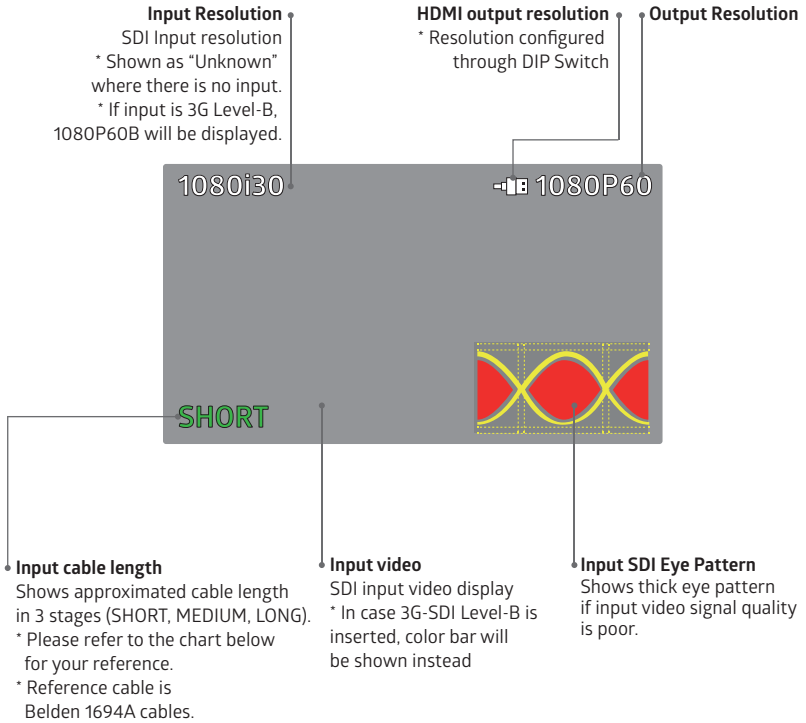
02. Interface

DIP Switch Settings

<p style="text-align: center;">VIDEO OUT</p>  <p>1 2 3 4</p> <p>480i59.94</p> <p>576i50</p> <p>720p50</p> <p>720p59.94</p> <p>720p60</p> <p>1080i50</p> <p>1080i59.94</p> <p>1080i60</p> <p>1080p23.98</p> <p>1080p24</p> <p>1080p25</p> <p>1080p29.97</p> <p>1080p30</p> <p>1080p50</p> <p>1080p59.94</p> <p>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 style="text-align: center;">RATIO</p>  <p>5</p> <p>Full</p> <p>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 style="text-align: center;">BRIGHTNESS</p>  <p>6</p> <p>Dark</p> <p>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

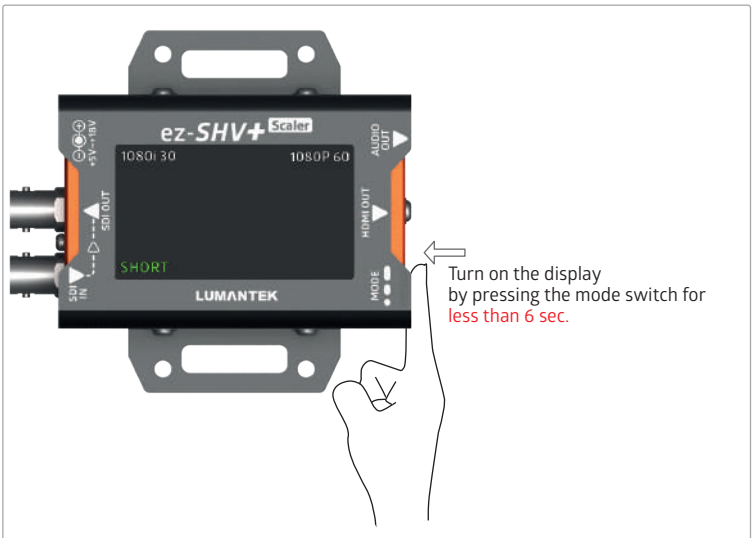
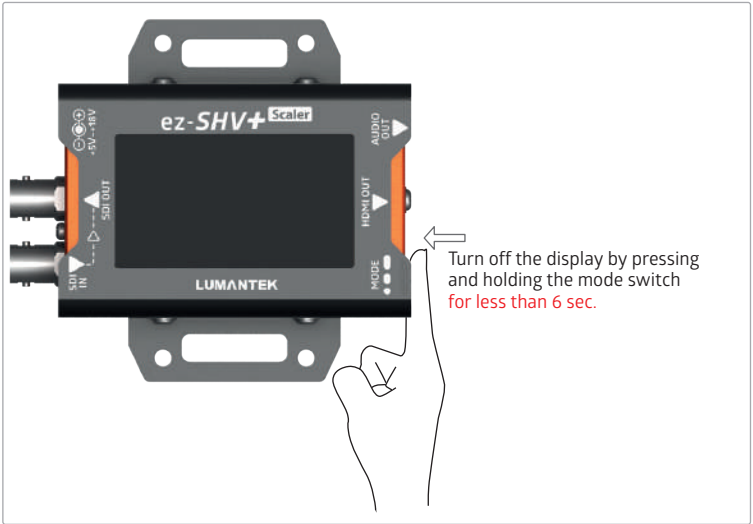
LCD Display



02. Interface

LCD Display

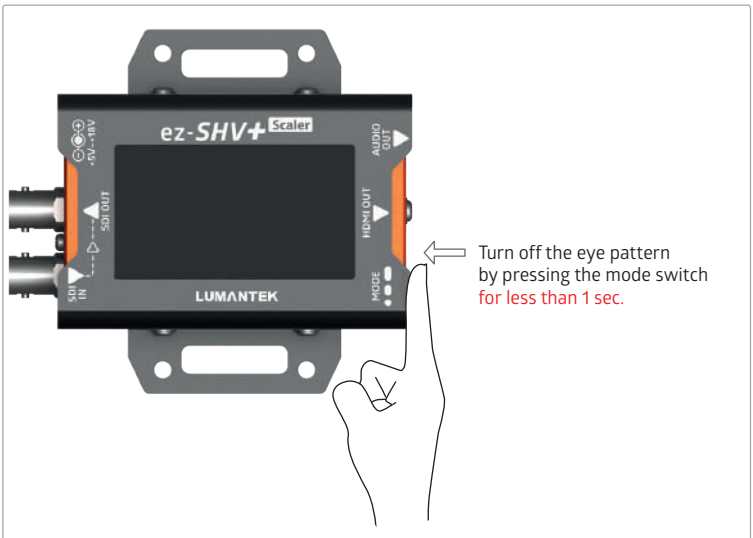
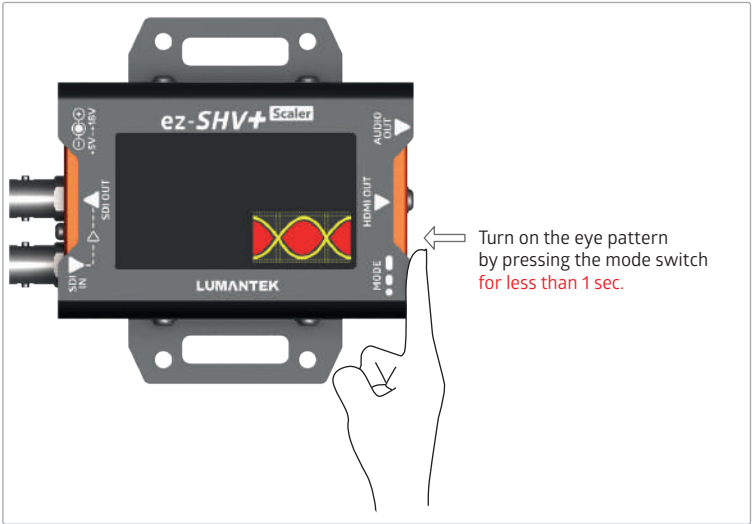
① LCD Display ON/ OFF



02. Interface

LCD Display

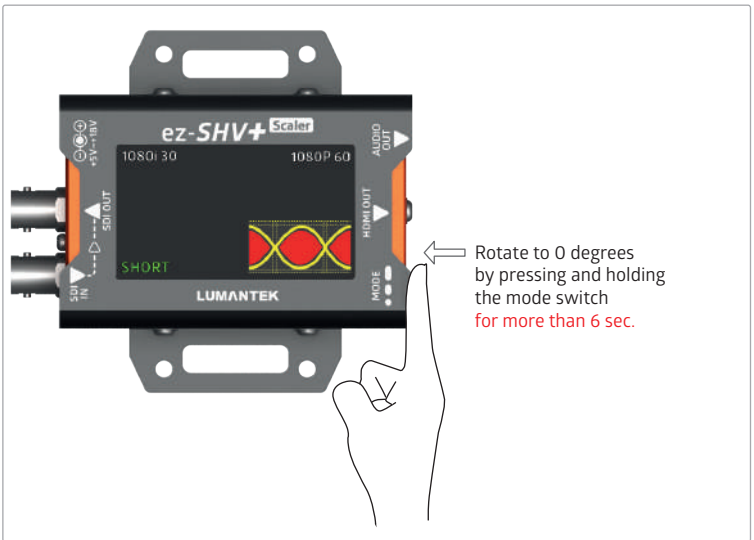
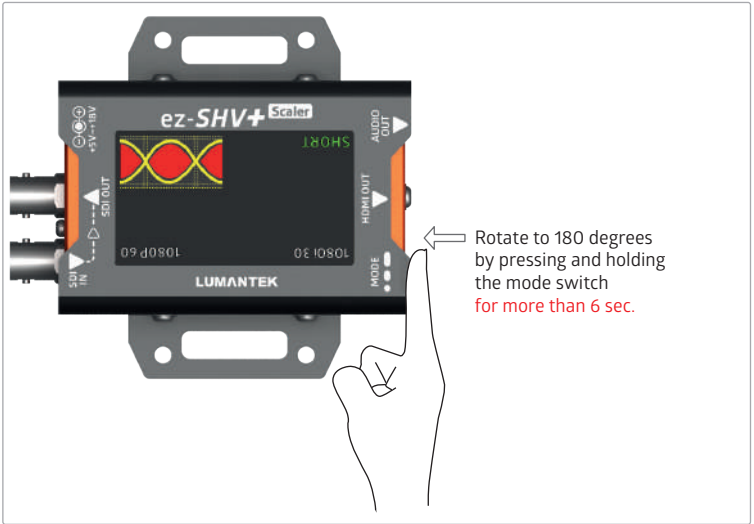
② SDI input eye pattern ON/ OFF



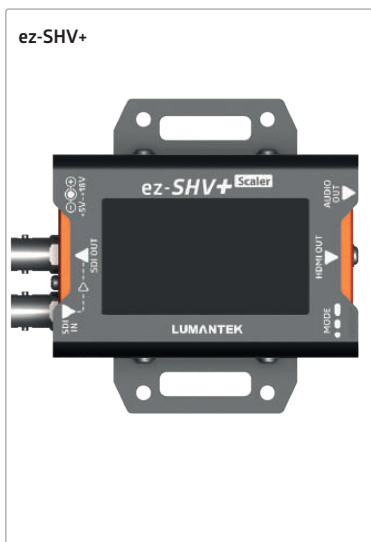
02. Interface

LCD Display

③ LCD monitor rotation (by 0 or 180 degrees)



03. Product Configuration



04. Technical Specifications

ez-SHV+

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: 86.3 (H) x 57.2 (W) x 26.6 (D) (mm)

Weight: 0.3 kg (0.66 lb)

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