

ez-HSV+

HDMI to SDI
Converter with
Display and Scaler

Operation manual

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01. Introduction

Introduction

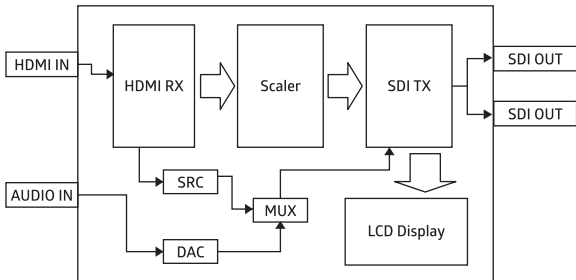
Ez-HSV+(HDMI to SDI Converter with Display and Scaler)

ez-HSV+ is an HDMI to SDI with Scaler Converter with 1 x HDMI input and 2 x SDI outputs. It receives External Analog Audio (Stereo) input which can be embedded into the video. Ez-HSV+ is a mini converter that can display incoming video through 2.7inch TFT-LCD. The display shows input audio level meter and input & output resolutions. Resolution can be up or down scaled (from 480i to 1080p60) with a DIP switch.

Features

- ① Supports SD/HD/3G
- ② HDMI Video In : SD/HD/3G (HDMI Type A) x1
- ③ SDI Video Output : SD/HD/3G-SDI (BNC 75Ω) x2
- ④ Audio IN : Analog audio (3.5mm Stereo Jack) x1
- ⑤ LCD Display : 2.7inch TFT-LCD x1
- ⑥ MODE : Push Switch x1

Block Diagram



02. Product Interface

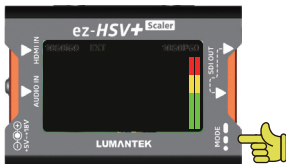
DIP Switch setting

<p>VIDEO OUT</p> <p>1 2 3 4</p> <ul style="list-style-type: none">480i59.94576i50720p50720p59.94720p601080i501080i59.941080i601080p23.981080p241080p251080p29.971080p301080p501080p59.941080p60	<p>VIDEO OUT : Output Video Resolution Settings (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> <ul style="list-style-type: none">FullLetter PillarBox	<p>RATIO : Output Video 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>AUDIO</p> <p>6</p> <ul style="list-style-type: none">INT.EXT.	<p>AUDIO : Input Audio Settings (Position 6)</p> <ul style="list-style-type: none">- INT. (DIP SW : 1)- EXT. (DIP SW : 0)

02. Product Interface

MODE Switch Settings

① LCD Backlight brightness control (Dark or Bright)

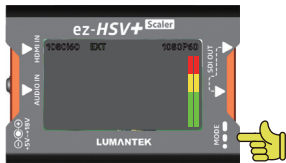


Turns dark when pressing for less than 1 second.



Turns bright when pressing for less than 1 second.

② LCD Screen ON/OFF

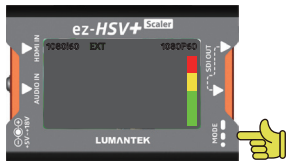


Turn LCD Screen ON by pressing and holding for less than 6 seconds.



Turn LCD Screen OFF by pressing and holding between 1-6 seconds.

③ LCD Screen rotation (0 or 180 degrees)



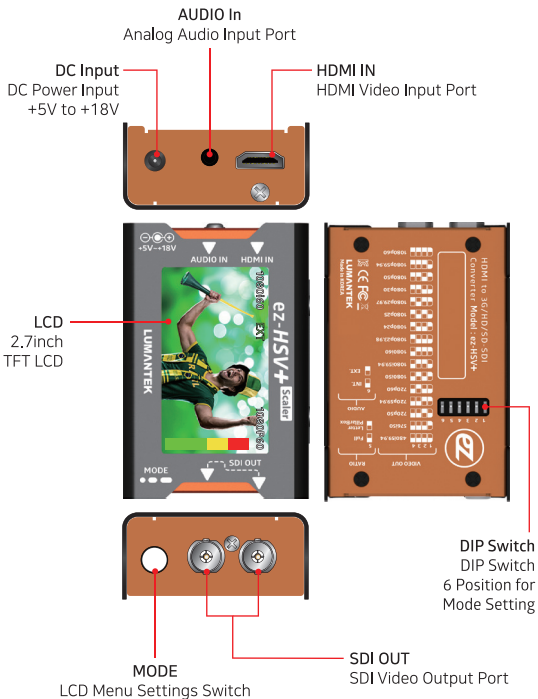
Rotates to 0 degrees when pressed for more than 6 seconds.



Rotates to 180 degrees when pressed for more than 6 seconds.

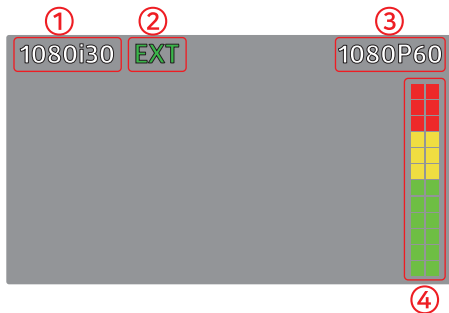
02. Product Interface

System Information



02. Product Interface

LCD Screen Configuration



① **Input Resolution**

Input HDMI signal resolution (Shows UNKNOWN with no signal)

② **Input Audio**

If DIP Switch Audio settings is set to external, then shows "EXT".
If DIP Switch Audio setting is set to internal, shows nothing.

③ **Output Resolution**

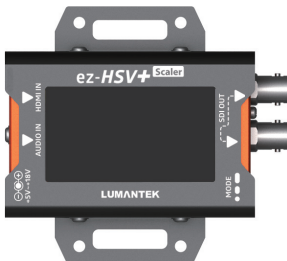
Shows SDI output resolution (set by DIP Switch)

④ **Input Audio level meter**

Left and right level of Input Audio signal

03. Product Configuration

ez-HSV+ body



Global Adapter

Adaptor Specification

AC Input : AC100 to 240V, 50/60Hz

DC Output : DC12V, 1A



04. Technical Specifications

Data Input

Analog Audio Input : Stereo Jack x1

HDMI Video Input : SD/HD/3G (HDMI Type A) 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

Data Output

SDI Video Output : SD/HD/3G-SDI (BNC 75Ω) 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 (OD: 5.5mm,

ID:2.1mm) x1

DIP Switch : (6 Pole) x1 Video In/Out

Resolution, Video Output Ratio,

Audio (INT. or EXT.)

MODE : (Push Switch) x1 LCD ON/OFF,

Menu Selection

Display

2.7 inch TFT LCD : Input Video Display,

In/Output Video Resolution Display,

Input Audio Level Meter Display

Electrical

Power Input : DC +5V to +18V

Power Consumption : 4W(max.)

Operation Temperature : 0~45°C

Physical

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

Weight : 0.3 kg (0.66 lbs)

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