



# LEYE SDI User Manual

SHENZHEN PORTKEYS ELECTRONIC  
TECHNOLOGY CO.,LTD



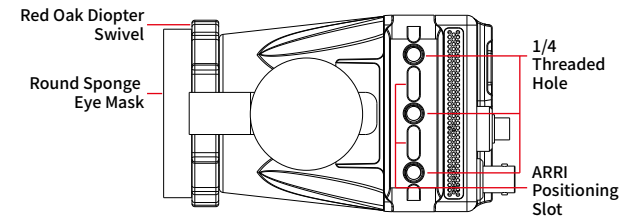
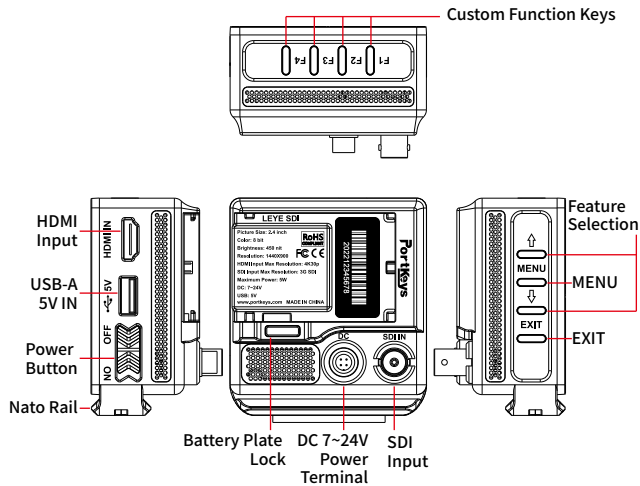
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Shenzhen, Guangdong, China

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Website: [www.portkeys.com](http://www.portkeys.com)

## Product Appearance Size



⚠ Operating temperature range: 0 °C ~ 40 °C

## Standard Accessories

- LEYE SDI X1
- U Disk X1
- D-TAP to 4 pin Aviation
- HDMI Adapters X1
- Head Power Cord X1
- Warm Prompt Card X1
- Round Sponge
- After Sales Service Card X1
- Eye Mask X2

## Parameter

Size:	2.4"
Dimension:	125x70x77mm
Viewing Angle:	160°H/160°V
Brightness:	450nit
Resolution:	1440x900
Contrast Ratio:	1100:1
Weight:	265g
Color:	8bit
Material:	Aluminum Alloy+ABS Engineering Plastics+Red Oak
Video Signal Input:	3G-SDI, 4K HDMI, HDMI
Input Voltage:	DC 7~24V/USB 5V
Maximum Power:	5W
USB-A	Upgrade Firmware /Load LUT
Menu Language:	简体中文/English

## Supported input resolution and frame rate

### HDMI Signal

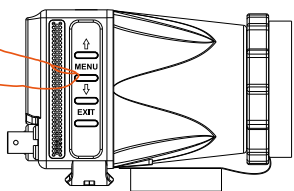
- 4096×2160p@24Hz
- 3840×2160p@23.97Hz,24Hz,25Hz,29.97Hz,30Hz
- 1920×1080p@23.97Hz,24Hz,25Hz,29.97Hz,30Hz,50Hz,59.94Hz,60Hz
- 1920×1080psf@23.97Hz,24Hz,25Hz,29.97Hz,30Hz
- 1920×1080i@50Hz,59.94Hz,60Hz
- 1280×720p@50Hz,59.94Hz,60Hz
- 720×576p&720×576i@50Hz
- 720×480p&720×480i@50Hz,59.94Hz,60Hz

## Supported input resolution and frame rate

### SDI Signal

- 1920×1080p@50fps,59.94fps,60fps
- 1920×1080p@50Hz,59.94Hz,60Hz YUV422
- 1920×1080p@23.98Hz,24Hz,25Hz,29.94Hz,30Hz YUV444/YUV422/RGB444
- 1920×1080psf@23.98Hz,24Hz,25Hz,29.97Hz,30Hz YUV444/YUV422/RGB444
- 1920×1080i@50Hz,59.94Hz,60Hz YUV444/YUV422/RGB444
- 1280×720p@50Hz,59.94Hz,60Hz YUV444/YUV422/RGB444
- 720×480i@59.94Hz YUV422
- 720×576i@50Hz YUV422

[MAIN]



**MAIN**

- Input Source >
- Guides >
- Video Config >
- System Config >
- LUT Config >
- Function Setup >
- Firmware >
- Exit ↩

**Input Source**

- HDMI >
- SDI >
- Back ↩

Function Select “↕ ↔” can be adjusted ←→ Adjust function parameters  
(Please be referred with the first page)

**Guides**

- Guides ◀ Off/80%/90%/1.1/16.9/9.16/15.9/4.3/1.5:1/1.85:1/2.1/2.35:1/2.39:1/Custom ▶
- H (Custom) ◀ 1%~100% ▶
- V (Custom) ◀ 1%~100% ▶
- Guide Masks ◀ On/Off ▶
- Crosshair ◀ On/Off ▶
- Grids ◀ 1/2/3/4/5/6/7/8/9/10/Off ▶
- Back ↩

Function Select “↕ ↔” can be adjusted ←→ Adjust function parameters  
(Please be referred with the first page)

**Video Config**

- Brightness ◀ 0~100 ▶
- Contrast ◀ 0~100 ▶
- Chroma ◀ 0~100 ▶
- Sharpness ◀ 0/10/20/30/40/50/60/70/80/90/100 ▶
- Tint ◀ 0~100 ▶
- Color Temperature ◀ 5600K/6500K/7500K/9300K/Manual ▶
- Backlight ◀ 0~100 ▶
- Anamorphic ◀ 1X/1.33X/1.42X/1.5X/1.6X/1.66X/1.85X/2X/2.35X/User ▶
- Back ↩

Function Select “↕ ↔” can be adjusted ←→ Adjust function parameters  
(Please be referred with the first page)

**Color Temperature Manual**

- Red ◀ 0~255 ▶
- Green ◀ 0~255 ▶
- Blue ◀ 0~255 ▶
- Back ↩

Color Temperature adjusts to Manual Setting(Confirm by MENU)

**Anamorphic Setting**

- Aspect ◀ 1X/1.33X/1.42X/1.5X/1.6X/1.66X/1.85X/2X/2.35X/User ▶
- User ◀ 1.00X~3.00X ▶
- Back ↩

Aspect adjusts to User (Confirm by MENU)

**System Config**

- OSD-Language ◀ 简体中文/English ▶
- OSD-Duration ◀ 5Sec/10Sec/15Sec/20Sec/25Sec/30Sec/Off ▶
- OSD-Transparency ◀ Low/Middle/High/Off ▶
- Menu Setup ◀ User1/User2/User3/User4/User5 ▶
- System Reset Are you sure? Press MENU, Then ↩ Yes/No
- Flip Control >
- Detect Data Source ◀ After LUT/Before LUT ▶
- Battery Voltage Dis.. ◀ On/Off ▶
- Back ↩

Function Select “↕ ↔” can be adjusted ←→ Adjust function parameters  
(Please be referred with the first page)

### Flip Control

Display Flip Mode	Off
H Flip	On
V Flip	On
Osd Flip Mode	Off
H Flip	On
V Flip	On
Back	↩

### LUT Config

LUT	◀ On(Null)/Off ▶
Stored from USB	>
USB Looks	>
Reset LUT	>
Back	↩

Function Select "↕ ↔" can be adjusted ← → Adjust function parameters  
(Please be referred with the first page)

USB Looks

USB 2.0

3D LUT

↓ (Press menu key and middle key of direction key)

Return

U Disk..

↓ (Press menu key and middle key of direction key)

Return

1 Cine4 Maggies.cube

Basics.cube

U-SONY-S-LOG2-V1-LTR.cube

U-SONY-S-LOG2-V2-LTR.cube

DesatGrn.cube

HighSat.cube

Greenish.cube

StronyContrast.cube

Vibrant.cube

Apply 3D LUT mode and it will be\* saved automatically to "user storage" (Click MENU as Confirm)

\*LUT file could be stored repeatedly, to delete, please enter the user storage interface and delete it by the above steps. LUT file format Cube, support 16/17/32/33/64/65 precision (LUT\_3D\_SIZE).

### LUT File Deletion (Needs to be performed in the state of access signal)

#### Stored from USB

XXXXXXXX (Stored LUT configuration)	■
XXXXXXXX (Stored LUT configuration)	[ ]
XXXXXXXX (Stored LUT configuration)	[ ]
Back	↩



Stored LUT Configuration  
(Long press menu key and middle key of direction key)

Delete Are you sure?

Yes No

#### Function Setup

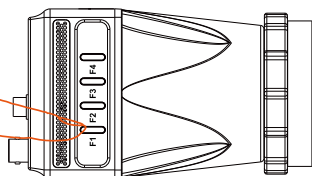
Function 1	◀ Peaking ▶
Function 2	◀ Luma Waveform ▶
Function 3	◀ False Color ▶
Function 4	◀ Check Field ▶
Back	↩

Function 1

- Check Field\*
- H/V Delay\*
- \*Guides\*
- \*Cross Hair
- \*Grids\*
- \*Peaking
- \*False Color\*
- \*Zebra
- \*UnderScan
- \*Histogram
- \*Luma Waveform

- \*Image Crop
- \*Audio Meters
- LUT
- Brightness\*
- Contrast\*
- Chroma\*
- Sharpness\*
- Tint\*
- Anamorphic\*
- Backlight\*
- Display Flip
- Osd Flip

▲ Function 2, function 3 (The function setting is same with function 1)



\*Attention: Please set the functions to the customized short key F1-F4. Long press 3 seconds (F1-F4) will be showing the setting menu of this function.  
 \*Continuously click shortcut function key, which can be switched.  
 \*The parameters can be adjusted in the  $\updownarrow$  button of the function.

False Color:On  
 Long press 3 sec to set function

**False Color Setting**

Under Warn.	-1
Over Warn.	101
Tooltip	On
Exit	

**Firmware**

Version Information      Firmware Ver LEYE-V2.04.18

Update (USB)      >

Back      ↶



(Press menu key and middle key of direction key)  
 (Please check page 11-12 for firmware update)

Update(USB)

Are you sure?

Yes      No

**Guides Setting**

Guides      ◀ Off/80%/90%/1:1/16:9/9:16/15:9/4:3/1.5:1/1.85:1/2:1/2.35:1/2.39:1/Custom ▶

H (Custom)      ◀ 1%~100% ▶

V (Custom)      ◀ 1%~100% ▶

Color      ◀ White/Red/Green/Blue/Black ▶

Guide Masks      ◀ On/Off ▶

Exit      ↶

**CrossHair Setting**

Crosshair      ◀ On/Off ▶

Color      ◀ White/Red/Green/Blue/Black ▶

X Offset      ◀ 0%~100% ▶

Y Offset      ◀ 0%~100% ▶

Exit      ↶

**Grids Setting**

Grids      ◀ Off/1/2/3/4/5/6/7/8/9/10 ▶

Color      ◀ White/Red/Green/Blue/Black ▶

Exit      ↶

**Peaking Setting**

Factor      ◀ 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15 ▶

Color      ◀ Red/Green/Blue/White ▶

Mode      ◀ Original/Black and white/Grayscale(Low)/Grayscale(Middle)/Grayscale(High)/Black ▶

Frame      >

Masks      ◀ On/Off ▶

Exit      ↶

### False Color Setting

Under Warn. ◀ -10~15 ▶

Over Warn. ◀ 85~110 ▶

Tooltip ◀ On/Off ▶

Exit ↵

### Waveform Setting

Waveform ◀ On/Off ▶

Blending ◀ On/Off ▶

Position ◀ R+B/L+B/L+T/R+T ▶

Exit ↵

### Zebra Setting

High Area ◀ On/Off ▶

Factor ◀ 50~109 ▶

Color ◀ Red/Green/Blue/White ▶

Low Area ◀ On/Off ▶

Factor ◀ -7~50 ▶

Color ◀ Red/Green/Blue/White ▶

Exit ↵

### Image Crop Setting

Image Crop ◀ On/Off ▶

Resize >

Exit ↵

### UnderScan Setting

Factor ◀ 50~100 ▶

Exit ↵

### Audio Meters

Audio Meters ◀ On/Off ▶

Position ◀ Top/Division/Bottom ▶

Blending ◀ On/Off ▶

Exit ↵

### Histogram Setting

Position ◀ R+B/L+B/L+T/R+T ▶

Size ◀ Small/Large ▶

Transparent ◀ On/Off ▶

Exit ↵

## Universal Software Upgrade Tutorial

### Attention:

1. Place the new firmware in the root directory of the U disk;
2. Keep the device powering on during updating;
3. Supports FAT, FAT32, ExFAT and NTFS U disk. (FAT32 is highly recommended);
4. Use the U disk with the storage below 16G;
5. If the firmware isn't updated successfully, please follow from step ③ and update again;

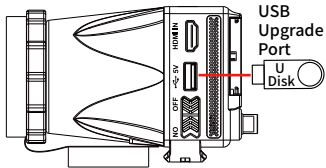
**⚠** Update method takes LEYE SDI as an example, for other models, please download the corresponding model upgrade package in our official website and follow the steps below.

1

Download the firmware zip, unzip it, and then send the upgrade file(LEYE.bin)(LEYE\_MIU.bin)to the root directory of the U disk.

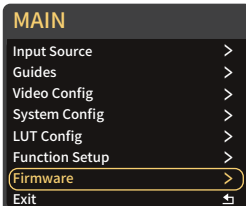
2

Supply power to the monitor, insert the U disk with upgrade file into the USB interface of the body.



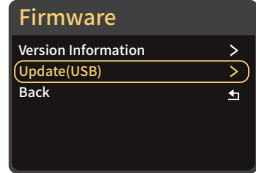
3

Boot up the monitor, click MENU to open main menu, select "Firmware" and click into firmware interface.



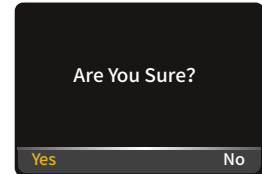
4

Select Firmware Upgrade(USB)



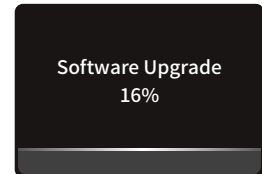
5

Click and confirm upgrade.



6

Upgrading is in progress. After that, the monitor will restart in black screen automatically (Do not power off during this process).



7

After completing the upgrade, boot up the monitor and click Main Menu → Firmware → Version Information to confirm whether the software is successfully upgraded.

