



OEYE-3G EVF User Manual

Company Address : 1406 14th Floor Block D Building 3
Phase I Tianan yungu Longgang district Shenzhen
Guangdong China

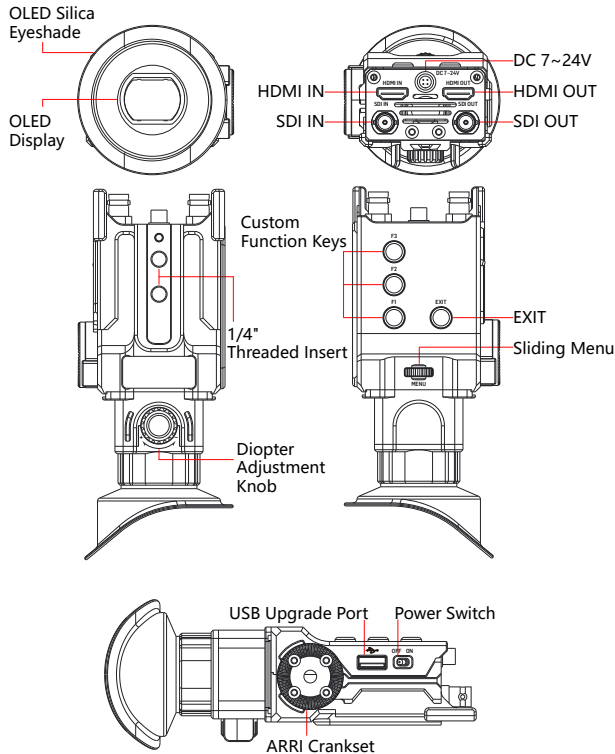
Factory Address : No.2nd Floor Building A Jingjiang Industrial
Park NO.101 Shangwei Road Longhua District Shenzhen
Guangdong China

Service Hotline : 4008090869 Email : sales@pkscorp.com

Website : www.portkeys.shop

SHENZHEN PORTKEYS ELECTRONIC TECHNOLOGY CO.,LTD

Product Appearance Size



Standard Accessories

OEYE-3G EVF X1
 Tube Clip X1
 Warm Prompt Card X1
 Universal DC Adaptor
 to Aviation X1

Safety Box X1
 Glasses Cloth X1
 Aviation to B Mount
 D-tap Cable X1
 U Disk (Manual, 3D LUTs,
 Firmware Inside) X1

Parameter

Size	0.71"
Dimension	180x69.7x72.4mm
Brightness(nit)	200
Resolution	1920x1080
Weight	400g
Color	8bit
Backlight	OLED
Material	Aluminium alloy
Input Voltage	DC 7~24V
Power Consumption	6.5W
Diopter	+8D~-3D
Signal Input	3G/HD/SD-SDI, 4K HDMI, HDMI, USB
Signal Output	3G/HD/SD-SDI, HDMI
Menu Language	简体中文/English

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

Supported input/output 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/output 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

[MAIN]

[Input Source]

HDMI Press MENU ◀ HDMI Signal ▶
 HD/SDI Press MENU ◀ SDI Signal ▶
 Back ◀

[Guides]

Guides Press MENU, Then ◀ Off/80%/90%/15:9/1.33:1/1.5:1/1.85:1/2:1/2.35:1/2.39:1/Custom ▶
 H (Custom) Press MENU, Then ◀ 1% ~ 100% ▶
 V (Custom) Press MENU, Then ◀ 1% ~ 100% ▶
 Guide Masks Press MENU, Then ◀ On/Off ▶
 Crosshair Press MENU, Then ◀ On/Off ▶
 Grids Press MENU, Then ◀ 1/2/3/4/5/6/7/8/9/10/Off ▶
 Back ◀

[Video Config]

Brightness Press MENU, Then ◀ 0~100 ▶
 Contrast Press MENU, Then ◀ 0~100 ▶
 Chroma Press MENU, Then ◀ 0~100 ▶
 Sharpness Press MENU, Then ◀ 0/10/20/30/40/50/60/70/80/90/100 ▶
 Tint Press MENU, Then ◀ 0~100 ▶
 Color Temperature Press MENU, Then ◀ 5600K/6500K/7500K/9300K/Manual ▶

Manual Press MENU ◀
 Red Press MENU, Then ◀ 0~255 ▶
 Green Press MENU, Then ◀ 0~255 ▶
 Blue Press MENU, Then ◀ 0~255 ▶
 Back ◀

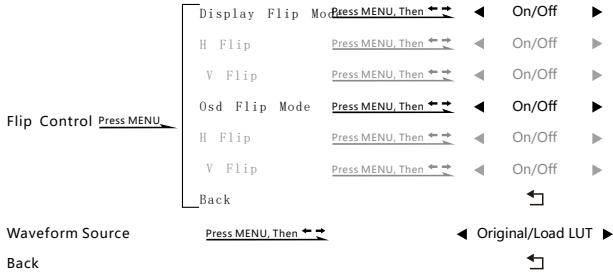
Backlight Press MENU, Then ◀ 10/20/30/40/50/60/70/80/90/100 ▶
 Aspect Press MENU, Then ◀ User/16:9/15:9/1.33:1/1.5:1/1.85:1/2:1/2.35:1 ▶

User Press MENU ◀
 Aspect Press MENU, Then ◀ User/16:9/15:9/1.33:1/1.5:1/1.85:1/2:1/2.35:1 ▶
 Wide Press MENU, Then ◀ 50~100 ▶
 Height Press MENU, Then ◀ 50~100 ▶
 Back ◀

Back ◀

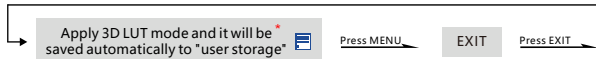
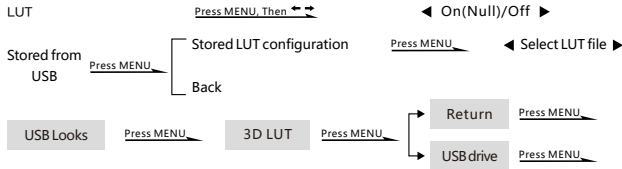
[System Config]

OSD-Language Press MENU, Then ◀ 简体中文/English ▶
 OSD-Duration Press MENU, Then ◀ 5Sec/10Sec/15Sec/20Sec/25Sec/30Sec/Off ▶
 OSD-Transparency Press MENU, Then ◀ Low/Middle/High/Off ▶
 Menu Setup Press MENU, Then ◀ User1/User2/User3/User4/User5 ▶
 System Reset Press MENU, Then ◀ Are you sure? Press MENU, Then ◀ Yse/No ▶

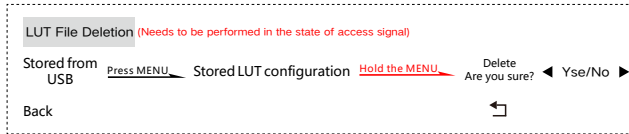


[LUT Config]

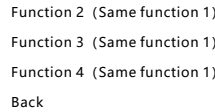
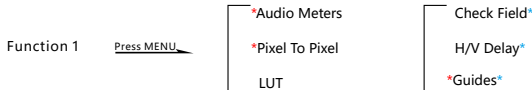
⚠ Copied the cube format LUT file to the U disk, then insert it to BM5 USB interface.



*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).



[Function Setup]

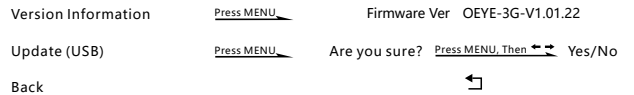


* Note: Set these functions in the custom shortcut function key, long press in 3 seconds to display the menu of this function.

* Note: Continuous click on the button, you can cycle switch.

* Note: Click on the button and toggle the wheel to adjust parameters.

[Firmware]



⚠ Please pay attention to the official website (www.pkscorp.com) update the latest firmware!

[Exit]

***Shortcut keys (hidden menu operation) Operation:**

Long press in 3 seconds *MENU* button to display the custom function key and image configuration information

Long press in 3 sec set "**Audio Meters**" onto one custom function key

[Audio Meters]

Audio Meters	<u>Press MENU, Then</u> ⇄	◀ On/Off ▶
Position	<u>Press MENU, Then</u> ⇄	◀ Top/Left/Division/Right/Bottom ▶
Blending	<u>Press MENU, Then</u> ⇄	◀ 0~100 ▶
Exit		↶

Long press in 3 sec set "**Pixel To Pixel**" onto one custom function key

[Pixel To Pixel Setting]

Position	<u>Press MENU, Then</u> ⇄	◀ Middle/L+T/R+T/R+B/L+B/User ▶
X Offset	<u>Press MENU, Then</u> ⇄	◀ -240~+240 ▶
Y Offset	<u>Press MENU, Then</u> ⇄	◀ -240~+240 ▶
Exit		↶

⚠ The resolution of the input signal is different and the offset value changes.

Long press in 3 sec set "**Guides**" onto one custom function key

[Guides Setting]

Guides	<u>Press MENU, Then</u> ⇄	◀ Off/80%/90%/15:9/1.33:1/1.5:1/1.85:1/2:1/2.35:1/2.39:1/Custom ▶
H (Custom)	<u>Press MENU, Then</u> ⇄	◀ 1%~100% ▶
V (Custom)	<u>Press MENU, Then</u> ⇄	◀ 1%~100% ▶
Color	<u>Press MENU, Then</u> ⇄	◀ White/Red/Green/Blue/Black ▶
Thickness	<u>Press MENU, Then</u> ⇄	◀ 0~50 ▶
Guide Masks	<u>Press MENU, Then</u> ⇄	◀ On/Off ▶
Exit		↶

Long press in 3 sec set "**Cross Hair**" onto one custom function key

[CrossHair Setting]

Crosshair	<u>Press MENU, Then</u> ⇄	◀ On/Off ▶
Color	<u>Press MENU, Then</u> ⇄	◀ White/Red/Green/Blue/Black ▶
X Offset	<u>Press MENU, Then</u> ⇄	◀ 0%~100% ▶
Y Offset	<u>Press MENU, Then</u> ⇄	◀ 0%~100% ▶
Exit		↶

Long press in 3 sec set "**Grids**" onto one custom function key

[Grids Setting]

Grids	<u>Press MENU, Then</u> ⇄	◀ Off/1/2/3/4/5/6/7/8/9/10 ▶
Color	<u>Press MENU, Then</u> ⇄	◀ White/Red/Green/Blue/Black ▶
Exit		↶

Long press in 3 sec set "**Peaking**" onto one custom function key

[Peaking Setting]

Factor	<u>Press MENU, Then</u> ⇄	◀ 1/2/3/4/5/6/7/8/9/10 ▶
Color	<u>Press MENU, Then</u> ⇄	◀ Red/Green/Blue/White ▶
Mode	<u>Press MENU, Then</u> ⇄	◀ Colour/Grayscale/Colour (Edge Enhance) ▶
Grayscale Level	<u>Press MENU, Then</u> ⇄	◀ 0%/20%/50%/100% ▶
Exit		↶

Long press in 3 sec set "**False Color**" onto one custom function key

[False Color Setting]

Under Warn	<u>Press MENU, Then</u> ⇄	◀ -10 ~ 15 ▶
Over Warn	<u>Press MENU, Then</u> ⇄	◀ 85 ~ 110 ▶
Tooltip	<u>Press MENU, Then</u> ⇄	◀ On/Off ▶
Exit		↶

Long press in 3 sec set "**Zebra**" onto one custom function key

[Zebra Setting]

High Area	<u>Press MENU, Then</u> ⏪ ⏩	◀ On/Off ▶
Factor	<u>Press MENU, Then</u> ⏪ ⏩	◀ 128 ~ 255 ▶
Color	<u>Press MENU, Then</u> ⏪ ⏩	◀ Red/Green/Blue/Black/White ▶
Low Area	<u>Press MENU, Then</u> ⏪ ⏩	◀ On/Off ▶
Factor	<u>Press MENU, Then</u> ⏪ ⏩	◀ 0 ~ 128 ▶
Color	<u>Press MENU, Then</u> ⏪ ⏩	◀ Blue/Black/White/Red/Green ▶
Exit		↶

Long press in 3 sec set "**UnderScan**" onto one custom function key

[UnderScan Setting]

Factor	<u>Press MENU, Then</u> ⏪ ⏩	◀ 50 ~ 100 ▶
Exit		↶

Long press in 3 sec set "**Histogram**" onto one custom function key

[Histogram Setting]

Position	<u>Press MENU, Then</u> ⏪ ⏩	◀ R+B/L+B/L+T/R+T ▶
Size	<u>Press MENU, Then</u> ⏪ ⏩	◀ Small/Large ▶
Transparent	<u>Press MENU, Then</u> ⏪ ⏩	◀ On/Off ▶
Exit		↶

Long press in 3 sec set "**Zooming**" onto one custom function key

[Zooming Setting]

Position	<u>Press MENU, Then</u> ⏪ ⏩	◀ Middle/L+T/R+T/R+B/L+B/User ▶
X Offset	<u>Press MENU, Then</u> ⏪ ⏩	◀ -480 ~ +480 ▶
Y Offset	<u>Press MENU, Then</u> ⏪ ⏩	◀ -270 ~ +270 ▶
Ratio	<u>Press MENU, Then</u> ⏪ ⏩	◀ User/X1.5/X2/2.5/X3 ▶
H:	<u>Press MENU, Then</u> ⏪ ⏩	◀ X1.01 ~ x3.00 ▶
V:	<u>Press MENU, Then</u> ⏪ ⏩	◀ X1.01 ~ x3.00 ▶
Exit		↶

⚠ The resolution of the input signal is different and the offset value changes.

Long press in 3 seconds "MENU" button to display the custom function key and image configuration information

⚠ This manual is prepared based on the software version installed at the factory. With the continuous upgrade of the software, the software operation after the upgrade may be different from the book, and it will be changed without further notice, please have your understanding.



Universal Software Upgrade Tutorial

Attention:

- 1、Firmware upgrade divides into main firmware upgrade and MCU upgrade; If upgrade the main software, just put the main software upgrade file into the root directory of the U disk; If the main software and the MCU need to be upgraded, then both the upgrade files should be put in the root directory of the U disk.
 - 2、Do not power off during the upgrade process.
 - 3、U Disk supports FAT, FAT32, ExFat and NIFS formats.
- ⚠ Update method takes OEYE as an example, for other models, please download the corresponding model upgrade package in our official website and follow the steps below.

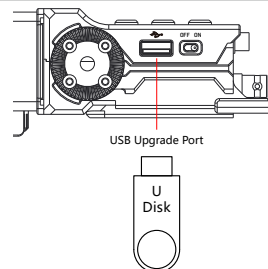
Main firmware upgrade:

1

Unzip the upgrade files of the main firmware, and then send the upgrade file (OEYE.bin) to the root directory of the U disk.

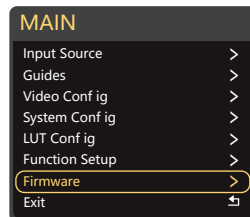
2

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



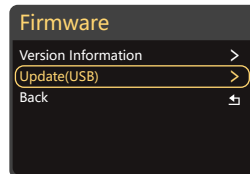
3

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



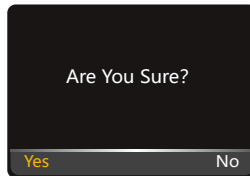
4

Select Firmware Upgrade(USB)

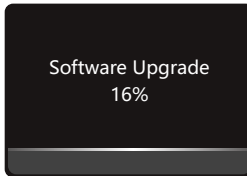


5

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.

