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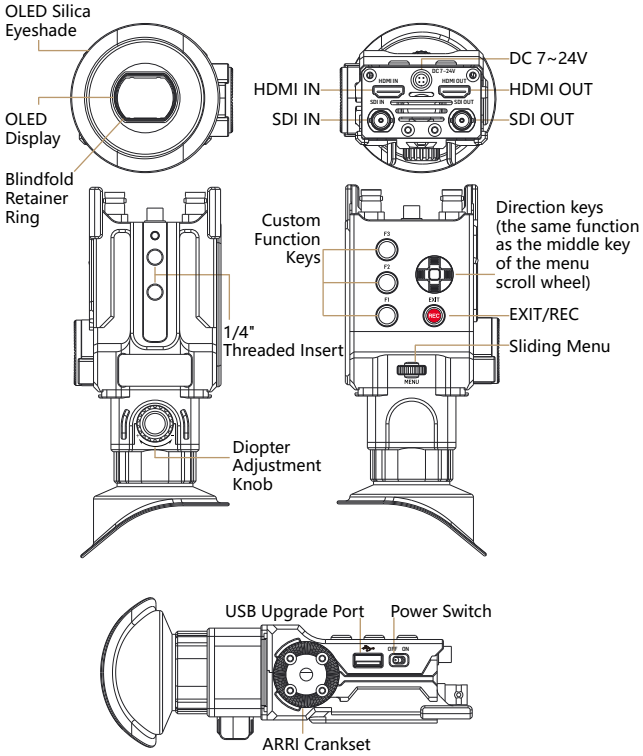
OEYE-RED User Manual

SHENZHEN PORTKEYS ELECTRONIC TECHNOLOGY CO.,LTD

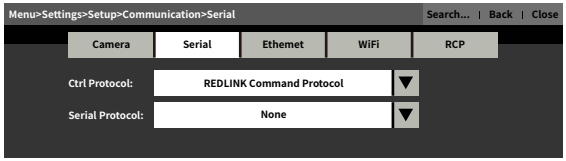
Product Appearance Size



⚠ Operating temperature range: 0 ℃ ~ 40 ℃

Before OEYE controls RED camera ,please set the Control protocol of RED camera to : REDLINK Command Protocol

Set path: Menu->Setting->Setup->Communication->Serial->Ctrl Protocol-> REDLINK Command Protocol



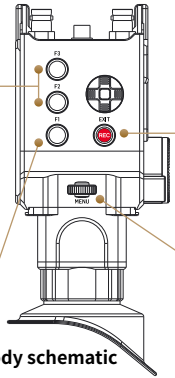
Non-RED control mode:
As F1 F2 F3 shortcut keys for OEYE

RED control mode :
F2 corresponds to 2 shortcut key of RED camera , it is recommended to set to LCD1/2:Cycle Mode according to the intrtface used by the current LCD

F3 corresponds to 3 shotrcut key of RED camera , it is recommended to set to HDMI /SDI :Cycle Mode according to the currently used signal interface.

After setting :
F2 is to set LCD1/2 control menu Opne and close
F3 is set to HDMI /SDI control menu open and close

Always be the F1 shortcut key of OEYE (The Default is the peaking function of OEYE , The function can be customized)



OEYE body schematic

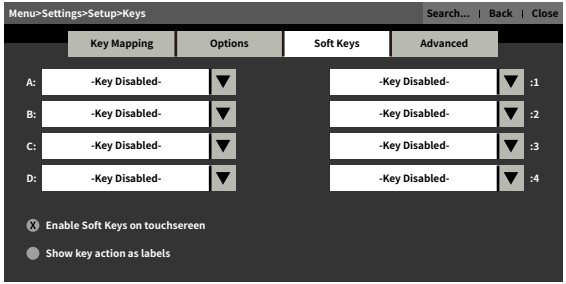
Long press 5 second can switch the menu control between OEYE/RED

Non-RED control mode:
As the EXIT key for OEYE.

RED control mode:
As record key ,can control the fan synchronization of OEYE and RED.

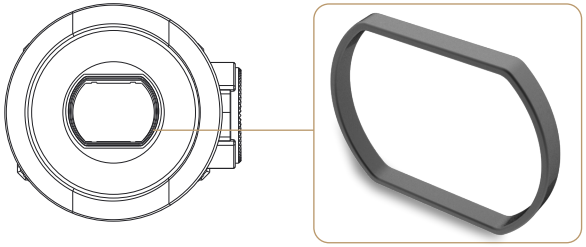
Non-RED control mode :
As menu kay and Ok kay for OEYE.

RED control mode :
As menu kay and Ok kay for RED camera ,corresponding to RED scroll wheel operation key.

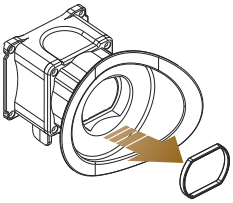


F2 /F3 correspond to 2/3 customized keys in Menu -Setting -Setup -Keys-SoftKeys

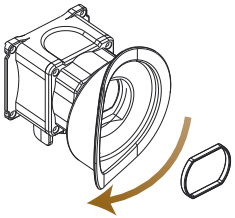
Silicone Eye Mask Installation Instruction



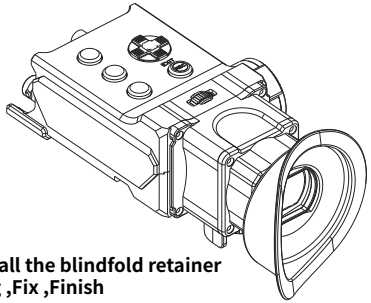
Removable blindfold retainer ring, To adjust the left and right direction of the silicone eye mask



1、Take out the blindfold retainer ring



2、Rotate the silicone eye mask 180 degrees



3、Install the blindfold retainer ring ,Fix ,Finish

Standard Accessories

OEYE-RED *1
Power Cord(3pin Aviation Connector - D-TAP) *1
Power Cord(5pin Aviation Connector - 5pin Aviation Connector) *1
Control Cable(4pin LEMO - 3pin Aviation Connector) *1
L-type Inner Allen Key Diameter 4.7mm *1
Safety Plastic Box *1
SDI Cable *1
Pipe Clamp *1
Warm Prompt *1
U Disk(Manual，3D LUTs, Firmware Inside) *1
OLED-RED Hub *1

Parameter

Size:	0.71"
Dimension:	180x69.7x72.4mm
Contrast:	1:100000
Brightness:	200nit
Resolution:	1920x1080
Weight:	400g
Color:	8bit
Backlight:	OLED
Material:	All Aluminum
Input Voltage:	DC 7~24V
Operating Power:	10W
Diopter:	+8D~-3D
Signal Input:	3G SDI、4K HDMI
Signal Out:	3G SDI、4K HDMI
USB-A	Upgrade Firmware / Load 3D LUT
Menu Language:	简体中文/English
Fan:	Yes

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

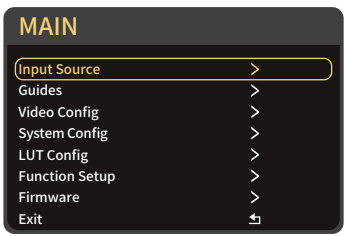
1920×1080p@23.98Hz,24Hz,25Hz,29.94Hz,30Hz YUV444/YUV422/RGB444

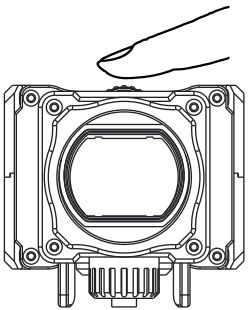
1920×1080psf@23.98Hz,24Hz,25Hz,29.97Hz,30Hz YUV444/YUV422/RGB444

1920×1080i@50Hz,59.94Hz,60Hz YUV444/YUV422/RGB444

1280×720p @50Hz,59.94Hz,60Hz YUV444/YUV422/RGB444

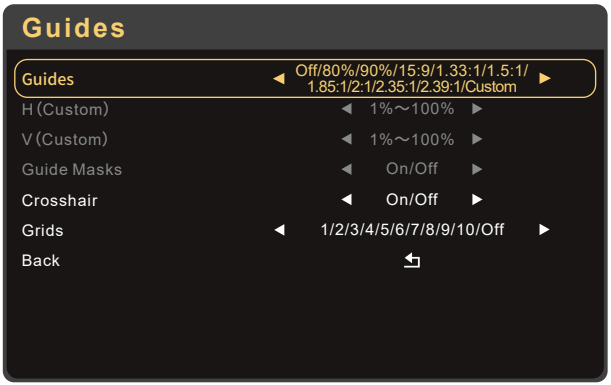
【MAIN】





Function selection "Direction key" can adjust ← → ↑ ↓ , click middle of menu key and direction key for OK function

function selection Scroll direction key and menu Kay can adjust the function parameters,click middle of menu key and direction key for OK function.



function selection Scroll direction key and menu Kay can adjust the function parameters,click middle of menu key and direction key for OK function.

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 ►
Aspect	◄ User/16:9/15:9/1.33:1/ 1.5:1/1.85:1/2:1/2.35:1 ►
Back	↰

Color Temperature adjusts to Manual Setting(Confirm by MENU)

Color Temperature	Manual
Red	◄ 0~255 ►
Green	◄ 0~255 ►
Blue	◄ 0~255 ►
Back	↰

Aspect adjusts to User (Confirm by MENU)

Aspect Setting	
Aspect	◄ User/16:9/15:9/1.33:1/ 1.5:1/1.85:1/2:1/2.35:1 ►
Wide	◄ 50~100 ►
Height	◄ 50~100 ►
Back	↰

function selection Scroll direction key and menu Kay can adjust the function parameters,click middle of menu key and direction key for OK function.

System Config

OSD-Language	◄ 简体中文/English ►
OSD-Duration	◄5Sec/10Sec/15Sec/20Sec/25Sec/30Sec/Off►
OSD-Transparancy	◄ Low/Middle/High/Off ►
Menu Setup	◄ User1/User2/User3/User4/User5 ►
System Reset	Are you sure? Press MENU, Then ⇄ Yes/No
Flip Control	>
Waveform Source	◄Load LUT/Original►
Back	↰

Flip Control

Display Flip Mode	◄ On/Off ►
H Flip	◄ On/Off ►
V Flip	◄ On/Off ►
Osd Flip Mode	◄ On/Off ►
H Flip	◄ On/Off ►
V Flip	◄ On/Off ►
Back	↰

LUT Config

LUT	◄ On(Null)/Off ►
Stored from USB	>
USB Looks	>
Back	↰

LUT File Deletion

(Needs to be performed in the state of access signal)

Storedfrom USB

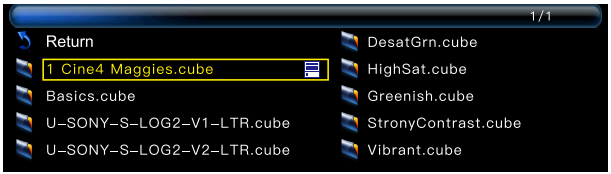
XXXXXXXX (Stored LUT configuration)	[■]
XXXXXXXX (Stored LUT configuration)	[ ]
XXXXXXXX (Stored LUT configuration)	[ ]
Back	↰

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

Delete
Are you sure?
Yes No

(Press menu key and middle key of direction key)

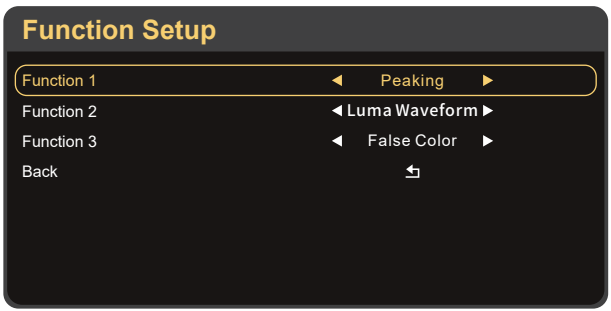
(Press menu key and middle key of direction key)



(Press menu key and middle key of direction key)

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

*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 1

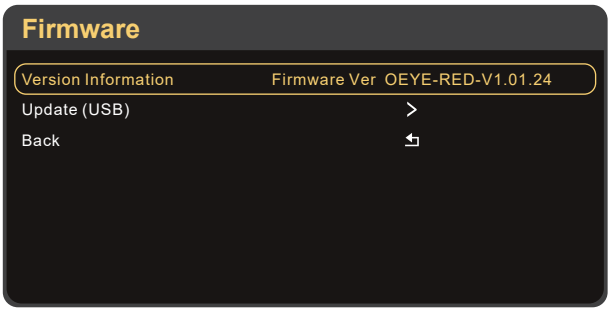
- *Peaking
- *False Color
- *Zebra
- *UnderScan
- *Histogram
- *Luma Waveform
- *Zooming
- *Audio Meters
- *Pixel To Pixel
- LUT
- Brightness*
- Contrast*
- Chroma*
- Sharpness*
- Tint*
- Aspect*
- Backlight*
- Display Flip
- Osd Flip
- Check Field*
- H/V Delay*
- *Guides*
- *Cross Hair
- *Grids*

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

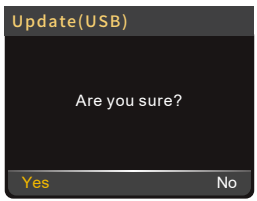
*Attention: Please set the functions to the customized short key F1-F4. Long press 3 seconds (F1-F4) will be showing the setting menu of this function.

*Continuously click shortcut function key, which can be switched.

*The parameters can be adjusted in the +/ - button of the function.



(Press menu key and middle key of direction key)
(Please check page 14-16 for firmware update)



Fast to Set the Funtion Parameter

Long press 3 seconds will be allowed to enter into the "Function Set" to set the factor the function

Peaking Setting

Factor	1/2/3/4/5/6/7/8/9/10
Color	Red/Green/Blue/White
Mode	Colour/Grayscale/Colour(Edge Enhance)
Grayscale Level	50%～100%
Exit	

False Color Setting

Under Warn.	-10～15
Over Warn.	85～110
Tooltip	On/Off
Exit	

Zebra Setting

High Area	On/Off
Factor	128～255
Color	Red/Green/Blue/Black/White
Low Area	On/Off
Factor	0～128
Color	Red/Green/Blue/Black/White
Exit	

UnderScan Setting

Factor	50～100
Exit	

Histogram Setting

Position	R+B/L+B/L+T/R+T
Size	Small/Large
Transparent	On/Off
Exit	

Waveform Setting

Waveform	On/Off
Blending	On/Off
Position	R+B/L+B/L+T/R+T
Exit	

Zooming Setting

Position	User/Middle/L+T/R+T/R+B/L+B
X Offset	-480 ～ +480
Y Offset	-270 ～ +270
Ratio	User/X1.5/X2/X2.5/X3
H:	X1.01 ～ X3.00
V:	X1.01 ～ X3.00
Exit	

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

Audio Meters

Audio Meters	◄ On/Off ►
Position	◄ Top/Left/Division/Right/Bottom ►
Blending	◄ 0~100 ►
Exit	⮌

Pixel To Pixel Setting

Position	◄ User/Middle/L+T/R+T/R+B/L+B ►
X Offset	◄ -240 ~ +240 ►
Y Offset	◄ -270 ~ +270 ►
Exit	⮌

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

Guides Setting

Guides	◄ 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)	◄ 1%~100% ►
V (Custom)	◄ 1%~100% ►
Color	◄ White/Red/Green/Blue/Black ►
Thickness	◄ 0~50 ►
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	⮌

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 4G.

5、If the firmware isn't updated successfully, please follow from step ③ and update again.

⚠ 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.

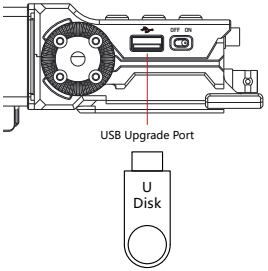
Firmware Upgrade:

1

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

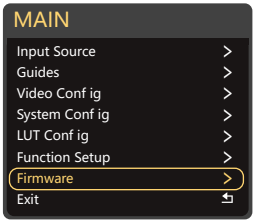
2

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



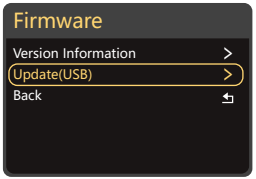
3

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



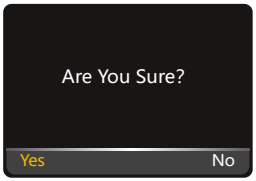
4

Select Firmware Upgrade(USB)



5

Click and confrim 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 → Virsion Information to confrim whether the software is successfully upgraded.