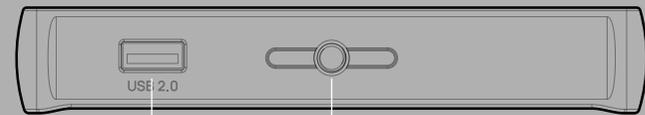
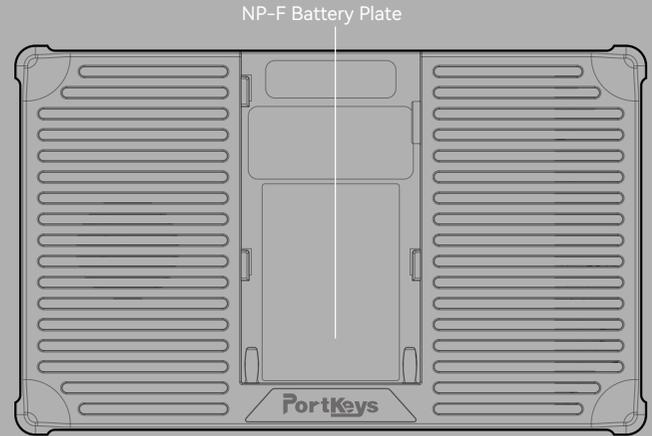


# Product Manual

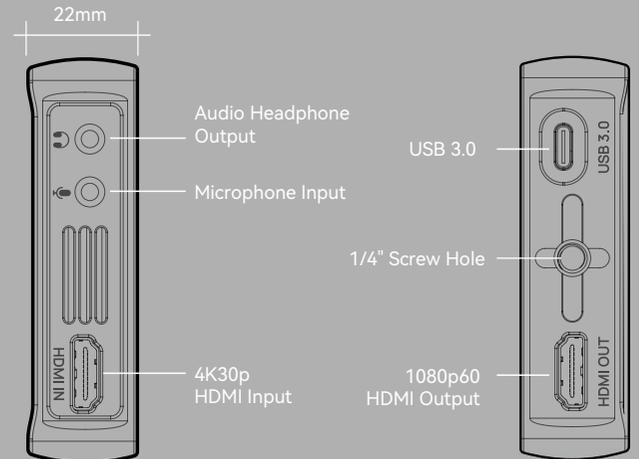
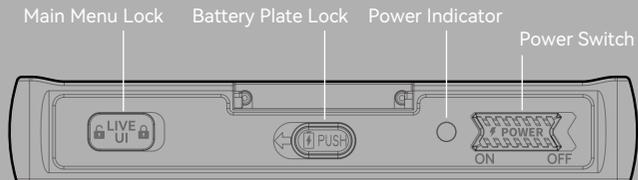


**PL5**

# Product Information



Upgrade Firmware / Load LUT      1/4" Screw Hole





# Catalogue

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# Main Menu Lock

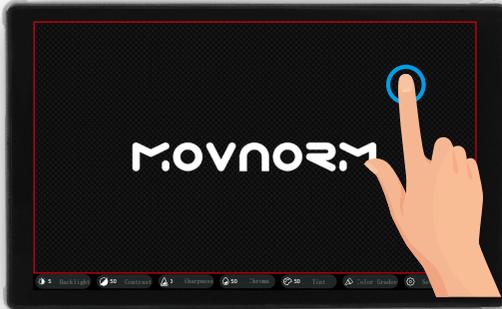


Main Menu Lock

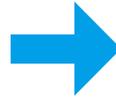


After turning on main menu lock , the screen directly clears and returns to the initial page, and gesture operations on the screen can no longer be performed.

# Initial Page Operation



On the initial page, tap the screen to bring up the main menu operation page.



Tap to switch fan adjustment. 

Tap the screen again to close the main menu.

Tap the battery icon to check the monitor status.



View battery voltage information, input signal information, and 3D LUT information.

# UI Operation Introduction

## 1.1



### Initial Page

1. Backlight
2. Contrast
3. Sharpness
4. Chroma
5. Tint
6. Settings
7. Color Grader



### 3、Sharpness 0~10

Adjust the sharpness of detail texture and borders on the image.



### 6、Settings



### 6.3、MIC Volume 0~10

Adjust the microphone input volume.



### 1、Backlight 1~10

Adjust the overall brightness of the screen.



### 4、Chroma 0~100

Adjust color vividness and color purity.



### 6.1、Display Flip

After the OSD flip mode is turned on, the display of the image changes along the horizontal or vertical direction, adjusting according to the vuse.



### 2、Contrast 0~100

Adjust the contrast between the brightest white and the darkest black in the bright and dark areas of the image.



### 5、Tint 0~100

Adjust the basic tendency of the overall color of the image.



### 6.2、Headphone Volume 0~10

Adjust the audio output volume.

# 1.2

## Color Grader Operation Instruction

\*Color grader is usable after HDMI plugs in signal



### 7. Color Grader

Click any one of the six color graders. Orange indicates that the color grader is activated. Click "Edit" to enter the adjustment options.



3. Zooming in on the image allows more accurate color selection.



5. indicates adjusting the size of the hue range. The original range is 40-60, with a range of 20 degrees. The original range size can be changed by individually adjusting the range in both directions.



Single-direction Adjusting the Hue Range Size.

8. The adjustable range for hue, saturation, and value is  $\pm 50$ .

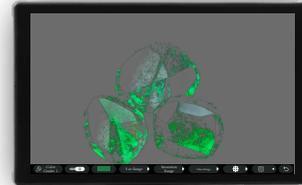


Click to switch to other color graders.

Color Adjustment Area.  
Color Selection



Adjust the fixed hue range.



6. After adjusting the selected color, click the mask to view the selected color range on the image. Operations for adjusting saturation and value ranges are the same as for the hue range.



9. When using multiple color graders, for example, after adjusting the image using color corrector 1, color grader 2 will select colors based on the adjusted image from color grader 1, not from the original image.



Adjust the size of the color selection frame.

2. Click on the image to select a color. The white frame indicates the color selection range. Long press to zoom in on the image.

4. Three-dimensional accurate color selection: After selecting the color, you can fine-tune it by adjusting the hue range, saturation range, and value range, reducing the need for repeated color selections.

indicates adjusting the fixed hue range, locking a 20-degree hue range in the 40-60 zone. The adjusted hue range remains fixed at 20 degrees.



7. After finishing the color selection, adjust the hue, saturation, and value to achieve a more desirable visual effect on the image.

# 1.3

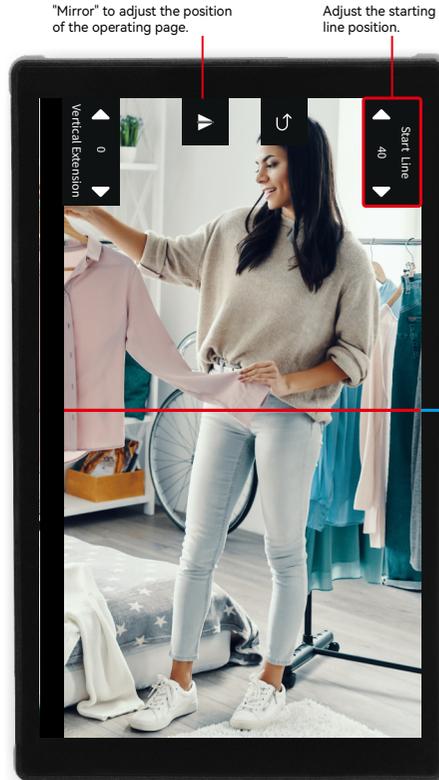
## Operation of Vertical Extension



1. Click the screen to bring up the main menu.



2. Click the screen to bring up the main menu.



The red line is the stretch start line.

Stretch direction

Adjustment screen ; Stretching length.

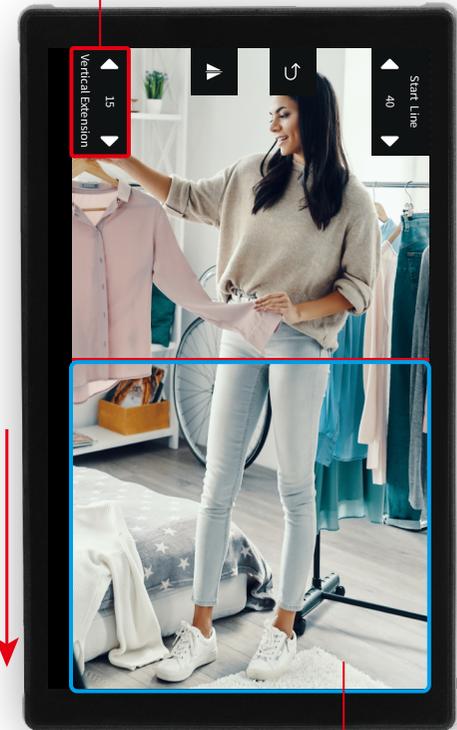


Image stretch area

# 1.4



## Initial Page

- 1、3D LUT
- 2、Vertical Extension
- 3、Buttons
- 4、Function
- 5、Settings



## 2、Vertical Extension

For details, please refer to "UI Operation Introduction 1.3" Vertical Stretch Operation Introduction.



## 4、Function

For details, please refer to page 08 "Function Introduction".



## 1、3D LUT

### Stylized LUT.

**User Storage:** Used to store the created LUT file, which can be directly applied to the image.

**USB Search:** Send the created LUT file to the U-disk, connect the USB STICK to the monitor USB port, tap the "USB search", select the removable disk, tap the LUT file store (LUT file can be repeatedly stored in the user store), check whether the file is stored successfully in the "user store".

**Reset LUT:** Resets the LUT file applied to the image.



## 3、Buttons

For details, please refer to page 07 "Shortcut key introduction".



## 5、Settings

For details, please refer to page 10 "Settings Introduction".

# Shortcut Key Introduction



Click the shortcut function to be replaced.

Click the function to be replaced to complete.



Preset completed shortcut functions.

The functions listed below can be preset as shortcut functions.



# Function Introduction

## 2.1



### Peaking

Use the specific color to mark the focus position.

Style: Original/Black and White/Grayscale(Low)/Grayscale(Middle)/Grayscale(High)

Sensitivity: 1~15

Color: White/Red/Green/Blue Mark: ON/OFF

Frame: X Start 0%~99%

Y Start 0%~99%

Wide 1%~100%

Height 1%~100%

Reset



### False Color

Use the specific color to display the image brightness level.(Style "User" is customizable)

Style: ARRI/User

Under Warn: -7~15 (User)

Over Warn: 85~110 (User)

Tooltip: ON/OFF



### RGB Waveform

Display the image of RGB three colors in scatter plot.

Opacity: OFF/25%/50%/75%

Brightness: 1~6

Warning Color: ON/OFF

Low Area: -7~109(Warning Color ON)

High Area: -7~109(Warning Color ON)

RGB Waveform zoom in and zoom out.

Position:Top Left / Top Right / Bottom Left / Bottom Right



### Luma Histogram

Display the brightness level in Block Diagram.

Transparent: ON/OFF

Luma Histogram zoom in and zoom out.

Position:Top Left / Top Right / Bottom Left / Bottom Right



### Zebra

Use zebra to customize the parts of the image's overexposure and underexposure.

Area Option: Low/Middle/High

Enable: ON/OFF

IRE: -7~50(Low)/-7~109(Middle)/50~109(High)

Range: ±0~±30 (Middle)

Color: White/Red/Green/Blue



### Luma Waveform

Display the brightness level in scatter plot.

Opacity: OFF/25%/50%/75%

Brightness: 1~6

Warning Color: ON/OFF

Low Area: -7~109(Warning Color ON)

High Area: -7~109(Warning Color ON)

Luma Waveform zoom in and zoom out.

Position:Top Left / Top Right / Bottom Left / Bottom Right



### Audio Meters

Monitor the volume.

Translucence: ON/OFF

L/R Swap: ON/OFF



### Rectangle Crop

Randomly crop rectangular images and display it full-screen.

Resize: X Start 0%~99%

Y Start 0%~99%

Wide 1%~100%

Height 1%~100%

Reset

## 2.2



### Image Capture

Capture a single frame image from a video and store it as a JPG on a USB stick.

Insert USB stick, click image capture, capture the image after processing and then store the image in the USB stick.



### HDR(HLG)

The high dynamic range displays more shadow and highlight detail.



### Guides

For composition and masking.

Options: 80%/90%/1-1/16/9/9-16/15:9/4:3/1.5/1.85:1/2-1/2.35:1/2.39:1

User-defined:

H: 1%-100%

V: 1%-100%

Mark: ON/OFF

Opacity: 0%/12.5%/25%/50%/100%

Color: White/Red/Green/Blue



### Grids

9 types of grid composition lines.

Area: 1-9

Color: White/Red/Green/Blue



### Image Overlay

Overlay semi-transparent JPG images in video.

Insert the USB stick, click Image Capture to auto-capture JPG images from the USB stick, and click the image to overlay it on the video.



### Check Field

Red, Green, Blue, and Black & White Solid Color Images.

Color: Black and White/Red/Green/Blue



### Cross Hair

The cross mark is placed in the center of the image.

X Offset: 0%-100%

Y Offset: 0%-100%

Color: White/Red/Green/Blue

# Settings Introduction



## Image

Contrast: 0~100 Chroma: 0~100  
 Sharpness: 0~10 Backlight: 1~10  
 Tint: 0~100  
 Anamorphic: 1.00X/1.33X/1.42X/1.50X/1.60X/1.66X/  
 1.80X/1.85X/2.00X/2.35X  
 User-defined: 0.25X~4.00X



## System Setting

OSD-Language: 简体中文/繁体中文/English/日本語/  
 Русский/Français/español  
 OSD-Transparency: OFF/Low/Middle/High  
 System Reset: Yes/No  
 Fan: 1-5  
 Black Level: ON/OFF  
 Gesture Zooming: ON/OFF  
 Live Mode: ON/OFF  
 OSD Animation: ON/OFF



## Firmware

View current software information, working time,  
 and upgrade software.  
 or specific detailed tutorials, please refer to page  
 11 "Software Upgrade Tutorial".



## Display Flip

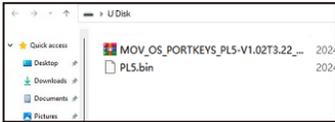
After the OSD flip mode is turned on, the display of  
 the image changes along the horizontal or vertical  
 direction, adjusting according to the vuse.



## Sound Config

Headphone Volume: 0~10  
 MIC Volume: 0~10

# Software Upgrade Tutorial



- 1、 Download the corresponding upgrade software zip file from the official website ([www.portkeys.com](http://www.portkeys.com)), unzip the upgrade file, and then place the .bin file into the USB stick root directory.

USB Upgrade Interface



- 2、 Power the PL5 and connect the USB stick including upgrade file to the monitor USB port.



- 3、 After booting, click "Settings" > "Firmware" > "Upgrade (USB)".



- 4、 Select "Yes" to upgrade.



- 5、 The firmware update process takes several minutes. After completing, the monitor will black out and enter the configuration upgrade state. (Do not power off during the upgrading)



- 6、 After the upgrade is completed, click "Settings" > "Firmware" to view version information and check if the upgrade was successful.