Contents

Product Introduction

5.5"

90MM

144 MM

Portkeys

30.8MM

F1 F2 F3 F4   OFF ⬤ ON   EXIT − MENU +

Function Selection

MENU

EXIT / Long press for 3 seconds to switch the state of touch control

Custom Function Keys

Power Switch

Silicone Pad   **Antenna**

HDMI Input — HDMI IN

Audio Headphone Output

HDMI Output — HDMI OUT

Portkeys

202212345678

Model:LH5P II
Picture Size:5.5 inch
Resolution:1920X1080
HDMI : 4k p30
Color : 8+2 FRC
Max Brightness:2200 nit
Max Power Consumption:13W
Email:services@portkeys.com
www.portkeys.com

FCC p(x)(s)k(s) HP

Battery Plate Lock

REMOTE-A   ○○○   5V2A   REMOTE-B   DC 7-24V

Camera Control Interface

1/4" Threaded Insert

USB-A

DC 7~24V/ Motor Control

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

Packing List

LH5PII Monitor X1	U Disk X1
Power Cord (Aviation Port to DC) X1	Safety Box X1
	Warm Prompt Card X1
2.4G Straight Head Antenna X1	After Sales Service Card X1

Basic Parameters

Size:	5.5"
Dimension:	144x90x30.8mm
Viewing Angle:	178°H/178°V
Brightness:	2200nit
Resolution:	1920x1080
Contrast Ratio:	1000:1
Weight:	285g
Color Depth:	10bit(8+2 FRC)
Material:	Aluminum Alloy+Toughened Glass
Input Voltage:	DC 7~24V
Maximum Power:	13W
Video Signal Input:	4K HDMI、HDMI
Video Signal Output:	4K HDMI、HDMI
USB-A:	Upgrade Firmware / Load 3D LUT
REMOTE-A:	Support wired control the functions of Z CAM, Canon, Sony, Panasonic and BMD
REMOTE-B:	Support wired control Tilta Nucleus-N/M
Supported Battery Models:	Sony NP-F970/F960/F750/F550
Headphone:	Output
Menu Language:	English / Simplified Chinese / Traditional Chinese / Japanese / Russian / French / Spanish
Fan:	Yes

Signal Specifications

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@50Hz
720×576i@50Hz
720×480p@50Hz,59.94Hz,60Hz
720×480i@50Hz,59.94Hz,60Hz

Supported 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
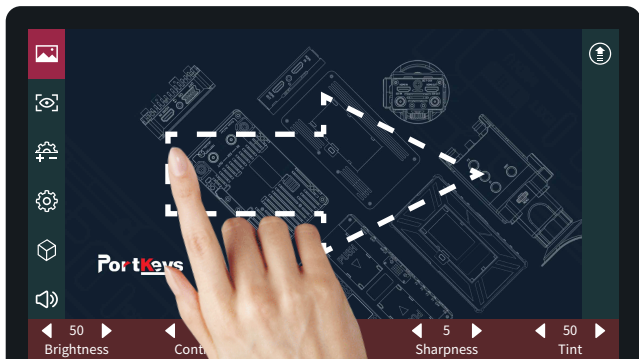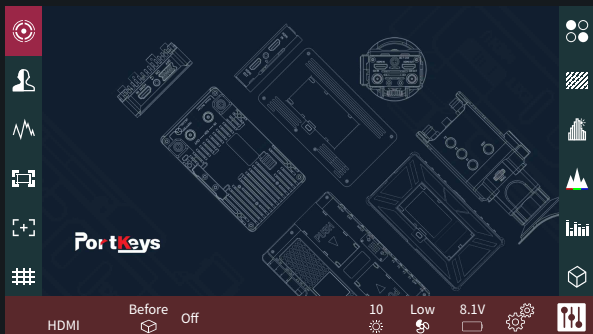720×576p@50Hz
720×576i@50Hz
720×480p@50Hz,59.94Hz,60Hz
720×480i@50Hz,59.94Hz,60Hz

[Function interface gesture switching]
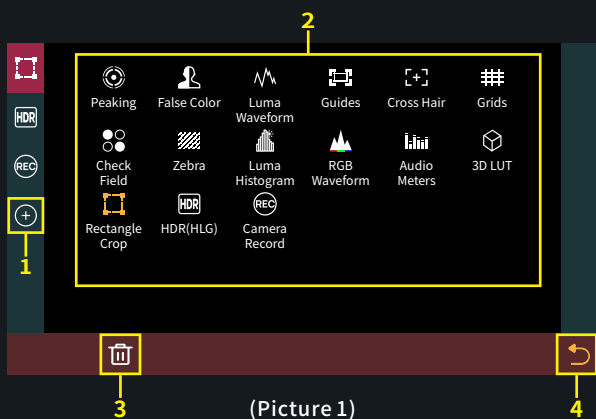
Swipe right on any interface to toggle to
the function setting interface;

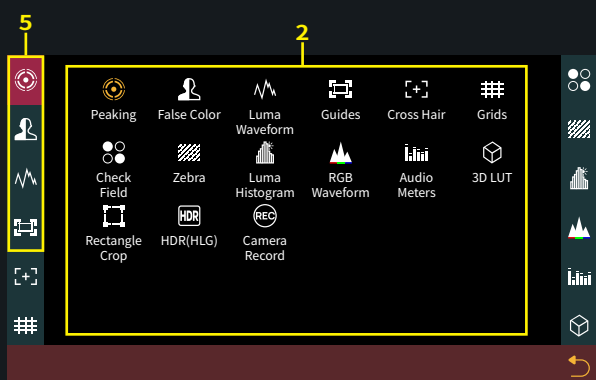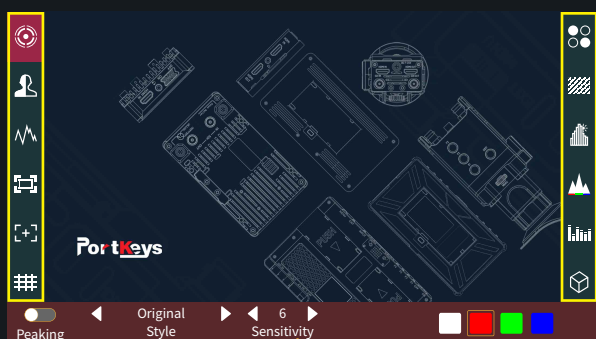(the function setting interface)

[Function Introduction]

1. Software Features;
2. HDMI Signal;
3. Loading 3D LUT Before and After Data;
4. 3D LUT ON/OFF;
5. Screen Brightness (1-10);
6. Fan Strength (Low / High);
7. Battery Level;
8. Quickly Enter the Software Function List;
9. Quickly Enter the Software Debugging;

(Picture 1)

[Custom Function Keys Settings]

1. Click "⊕" add shortcut functions to the left and right sides; If the function icons on the left and right have been added (Picture 2);You can swipe down in the shortcut function title area to continue adding;

2. Select the function icon to replace;

3. Select the function icon and click "🗑" to delete;

4. "↩" Return key;
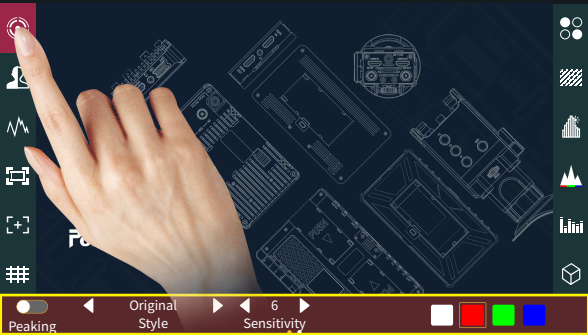

(Picture 2)

(Picture 3)

5. The first four functions are F1-F4 shortcut functions by default. You can swipe left/ right to enter the fucntion menu to change the custom functions (Picture 3) ;

(Picture 4)

6. After F keys setting is completed, F1-F4 keys on the monitor can be used to turn on/off the functions(Picture 4);
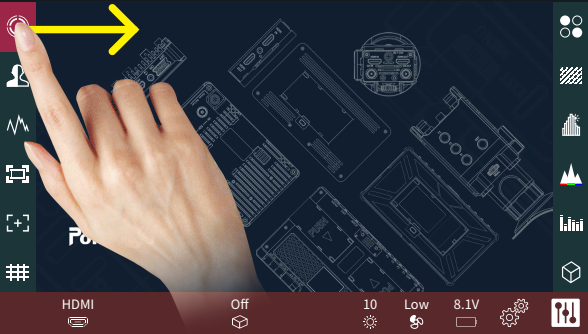
[Basic Operation]

Long press " ◎ ", the function parameter setting shows at the bottom(Picture 5);

(Picture 5)

Swipe the icon " ◎ " to the right and enter the function menu, you could replace or delete functions(Picture 6);

(Picture 6)

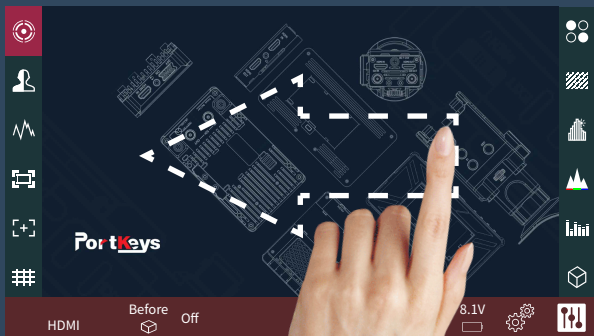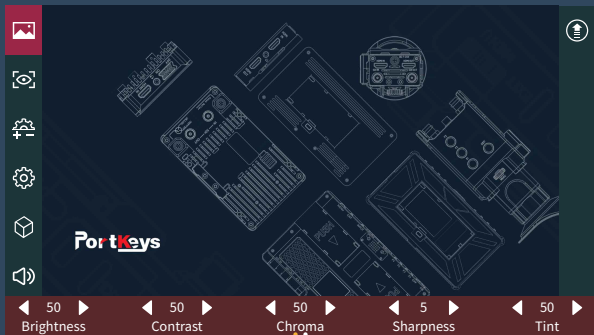Swipe the icon " ⚇ " to the left and enter the function menu, you could replace or delete functions(Picture 7);
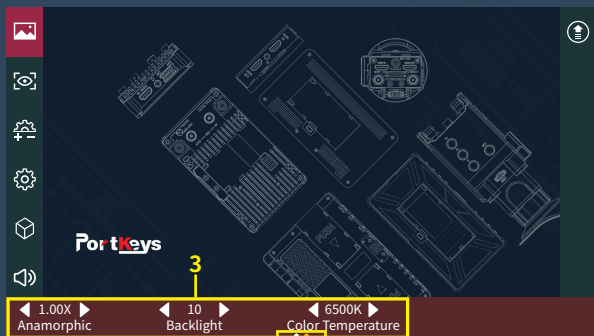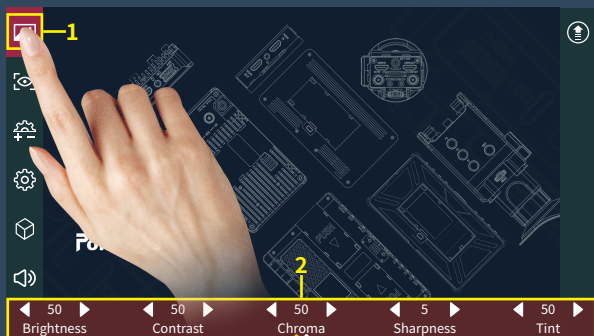

(Picture 7)

[Settings interface gesture switching]

Swipe left on any interface to toggle to the system settings interface；

◄ 50 ►	◄ 50 ►	◄ 50 ►	◄ 5 ►	◄ 50 ►
Brightness	Contrast	Chroma	Sharpness	Tint

(the system settings interface)

◀ 50 ▶	◀ 50 ▶	◀ 50 ▶	◀ 5 ▶	◀ 50 ▶
Brightness	Contrast	Chroma	Sharpness	Tint

◀ 1.00X ▶	◀ 10 ▶	◀ 6500K ▶
Anamorphic	Backlight	Color Temperature

[Image Settings]

1. Click " 🖼 " ;
2. Parameter setting information;
3. Parameter setting information(Next page);
4. Display the number of the page of Image parameter setting, Swipe left or right in the bottom information area to switch pages;

Manual Display Flip Mode   H Flip   V Flip   Osd Flip Mode   H Flip   V Flip

[Image and Menu Flip Settings]

1. Click " 👁 " ;

2. Image and menu flip setting information;

[Customize +/-key Setting]

1. Click " ⚙ " ;

2. +/- key customization Settings information;

OSD   System Reset   Low Fan   Bypass
Display Gamut

Black Level   Gesture Zooming

[System Setting]

1. Click " ⚙ " ;

2. System parameter setting information;

3. System parameter setting information(Next page);

Portkeys

3D LUT ... B   》 USB Looks   》 Reset LUT

[3D LUT Setting]

1. Click " ⬡ ";

2. 3D LUT setting information;

[Volume Setting]

1. Click " 🔊 ";

2. Volume information;

Portkeys

LH5P-V3.03.02.C19.B25
Version Information   Update (USB)

[Version Setting]

1. Click " ";

2. View version information and upgrades;

[Camera control interface gesture switching]

Swipe down on any interface can be toggle to the camera control settings interface;

(the camera control settings interface)

[Camera Model Setting]

1. Click " Wi-Fi/ USB ";

2. Camera model options: Wi-Fi/USB、
   Z CAM E2(LANC)、BMPCC4K(BLE)、
   BMPCC(LANC)、Canon(LANC)、
   Sony(MUTI)、Sony(LANC)、Panasonic (Remote).
   Currently selected "Wi-Fi/USB";

3. Display the number of the page of camera brands. Swipe left
   or right in the bottom information area to switch pages;

FOCUS
ZOOM
IRIS f0.0
SHUTTER 0
ISO 100
FPS 60

WB 5600
TINT 10
ProRes HQ
4K DCI 4096×2160

Portkeys

1 —
2 — My device
3 — Add new device
4 —

[Bluetooth Connection]

1. Select "BMPCC4K(BLE)";
2. Click "🔊";
3. Select "My device", For bluetooth connection(Record of successful bluetooth connection);
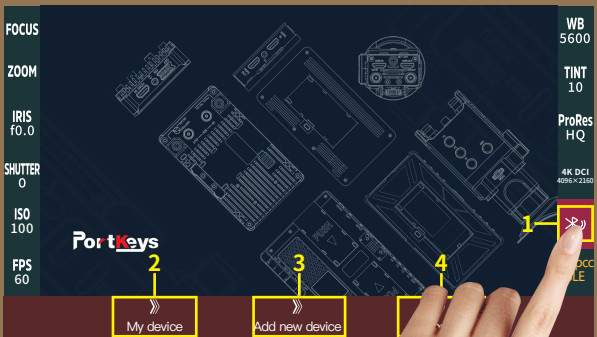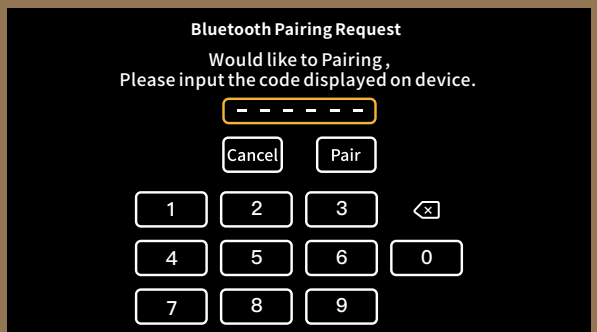4. Select "Add new device",turn on the BMPCC4K/6K Bluetooth function and record the passcode (picture 1),enter the passcode on the monitor(Picture 2 and 3), click " Pair ", After successful connection,The Bluetooth icon will be displayed in yellow " 🔊 ";
5. Select "Disconnect" to disconnect the Bluetooth connection;

(Picture 1)

Bluetooth Pairing Request
Would like to Pairing ,
Please input the code displayed on device.

– – – – – –

Cancel   Pair

1	2	3	⌫
4	5	6	0
7	8	9	

(Picture 2)

Bluetooth Pairing Request
Would like to Pairing ,
Please input the code displayed on device.

4 0 4 2 2 8

Cancel   Pair

(Picture 3)

FOCUS — 1

ZOO

IRIS
f0.0

SHUTTE
0

ISO
100

FPS
60

WB
5600
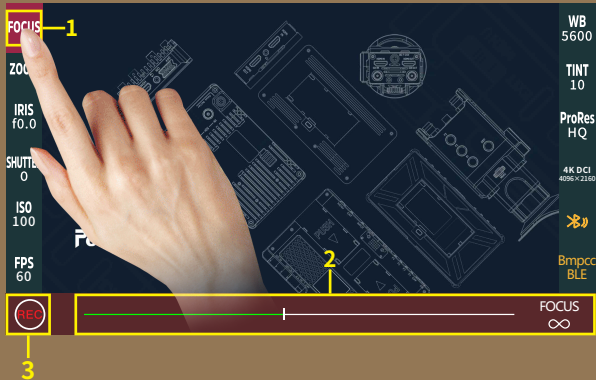
TINT
10

ProRes
HQ

4K DCI
4096×2160

Bmpcc
BLE
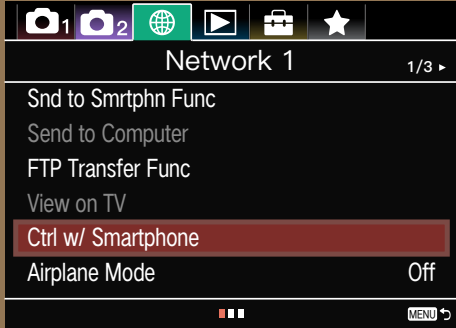
REC — 3

FOCUS — 2
∞

[Function Usage]

1. Click " **FOCUS** ";

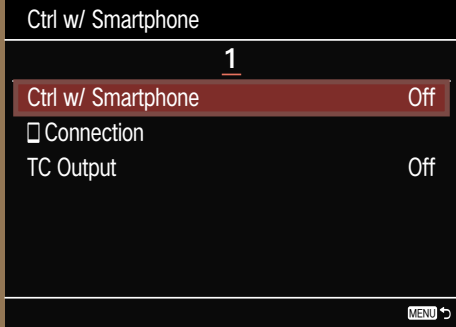2. Adjust the parameter on the progress bar;

3. Record;

[Wirelessly Connect Sony A7M iii to Monitor]

1. Turn the camera ON, select "MENU";
2. Go to the Network settings, select (Network 1) > (Ctrl w/ Smartphone) (Picture 1);
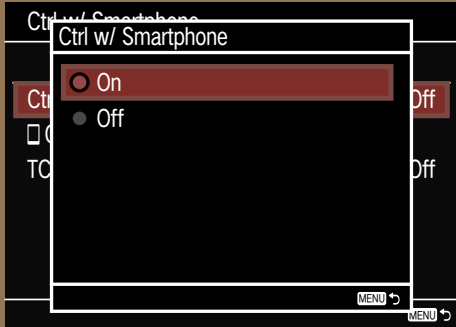

(Picture 1)

3. Turn "Ctrl w/ Smartphone" On, then select (Connection) (Picture 2-1~Picture 2-4);

(Picture 2-1)

(Picture 2-2)

(Picture 2-3)

(Picture 2-4)

4. Press the (Delete) button, select "Connect via password" (Picture 3);

(Picture 3)

5. On the monitor, select camera model "Wi-Fi/USB", enable "Wi-Fi" (Picture 4);

(Picture 4)

6. Tap "Add new device", select the Wi-Fi name of Sony A7MIII (Picture 5);

(Picture 5)

7. Input the Wi-Fi password that is displayed on the camera, wait for the connection (Picture 6);

(Picture 6)

8. The monitor is connected to Sony A7MIII (Picture 7);

(Picture 7)

[Motor control interface gesture switching]

Swipe up on any interface can be adjusted to the motor control settings interface;

(the motor control settings interface)

[Motor Control]

1. **Click** to select channel options " FOCUS NO:1 ";
2. Select the channel option to set the channel parameters;
3. Record;
4. Adjust the motor stroke;

Warning:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

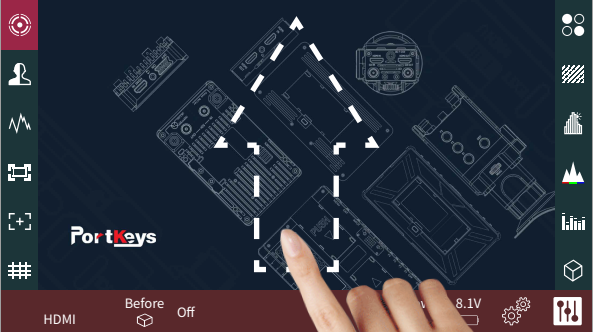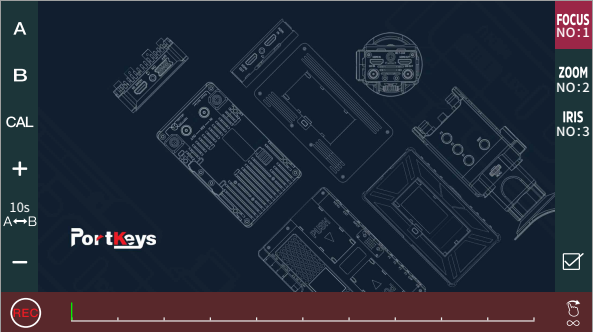NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

6. Set Up Photos-15C
I can not find the blow 1GHz test setup photo and AC line conducted emission setup photo.
Please provide.
For AC line conducted emission：
"If the EUT normally receives power from another device that in turn connects to the public utility ac power lines, measurements shall be made on that device with the EUT in operation to demonstrate that the device continues to comply with the appropriate limits while providing the EUT with power. If the EUT is operated only from internal or dedicated batteries, with no provisions for connection to the public utility ac power lines (600 VAC or less) to operate the EUT (such as an adapter), then ac power-line conducted measurements are not required."

The earphone normally receives power from charge box that in turn connects to the public utility AC power lines.so line conducted emission need to tested.

7. BLE-test report
For AC line conducted emission：
The earphone normally receives power from charge box that in turn connects to the public utility AC power lines.so line conducted emission need to tested.

8. A3-TZ2009001675-E2 BT
1).product name is incorrect.

Product doscription

Trade Mark ....:	TECNO
Product name ....:	Mobile Phone
Model No ....:	A3
Standards ....:	FCC Rules and Regulations Part 15 Subpart C Section 15.247 ANSI C63.10;2013

2).For AC line conducted emission：
The earphone normally receives power from charge box that in turn connects to the public utility AC power lines.so line conducted emission need to tested.