



# BM5 User Manual



Address : No:1406 Cloud Park 3D Longgang District Shenzhen China

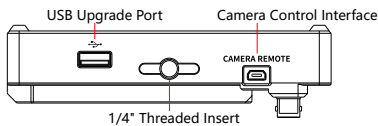
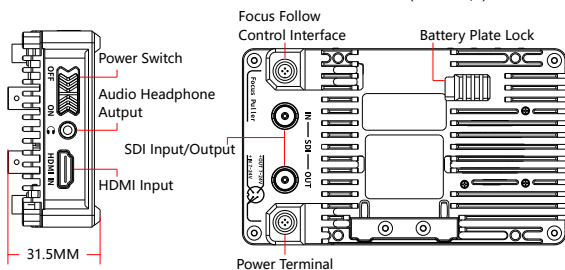
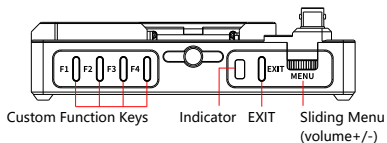
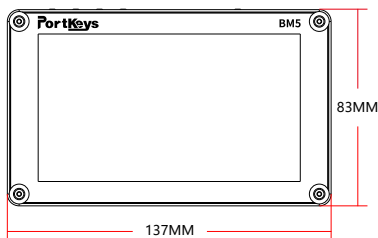
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SHENZHEN PORTKEYS ELECTRONIC TECHNOLOGY CO.,LTD

## Product Appearance Size



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

## Standard Accessories

BM5 Monitor X1	Power Cord (Aviation Head - B Port)80cm X1
Camera Control Cable X1	Power Cord (Aviation Head - DC)35cm X1
Tempered Glass Film X2	Screen Protection PC Board X1
Screen Cleaning Wipe X1	U Disk (Manual, 3D LUTs, Firmware Inside) X1
Warranty Card X1	
M2 L-Type Inner Allen Key X1	

## Parameter

Size	5"
Dimension	137x83x31.5mm
Viewing Angle	178°H/178°V
Brightness(nit)	2000
Resolution	1920x1080
Contrast Ratio	1000:1
Weight	350g
Color	8bit
Backlight	LED
Material	Aluminum Alloy + Toughened Glass
Input Voltage	DC 7~24V
Power Consumption	13W
Signal Input	3G/HD/SD-SDI, HDMI, USB
Signal Output	3G/HD/SD-SDI
Headphone	Output
Menu Language	简体中文/English

## Supported input/output resolution and frame rate

### HDMI Signal

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

720×480i@59.94Hz YUV422

720×576i@50Hz YUV422

## [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 ⇄	◀ Low/Middle/High ▶
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		⏪
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### [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

Flip Control Press MENU

- Display Flip Mode Press MENU, Then ◀▶ On/Off ▶
- H Flip Press MENU, Then ◀▶ On/Off ▶
- V Flip Press MENU, Then ◀▶ On/Off ▶
- Osd Flip Mode Press MENU, Then ◀▶ On/Off ▶
- H Flip Press MENU, Then ◀▶ On/Off ▶
- V Flip Press MENU, Then ◀▶ On/Off ▶
- Back ◀

Voltage Display Press MENU, Then ◀▶ On/Off ▶

Fan Press MENU, Then ◀▶ Low/Middle/High ▶

Touch Control Press MENU, Then ◀▶ On/Off ▶

SDI 1080P to I Scan Press MENU, Then ◀▶ On/Off ▶

Back ◀

### [LUT Config]

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

LUT Press MENU, Then ◀▶ On(Null)/Off ▶

Stored from USB Press MENU

- Stored LUT configuration Press MENU ◀ Select LUT file ▶
- Back ◀

USB Looks Press MENU 3D LUT Press MENU

- Return Press MENU ◀
- USB drive Press MENU

Apply 3D LUT mode and it will be saved automatically to "user storage" Press MENU EXIT Press 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).

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

Stored from USB Press MENU Stored LUT configuration Hold the MENU Delete Are you sure? ◀ Yse/No ▶

Back ◀

### [Function Setup]

Function 1 Press MENU

- \*Camera Control
- Display Flip
- Osd Flip
- Check Field\*
- H/V Delay\*
- \*Guides\*
- \*Cross Hair
- \*Grids\*
- \*Peaking
- \*False Color
- \*Zebra
- \*UnderScan
- \*Histogram

- Waveform
- \*Zooming
- \*Audio Meters
- HDR Preview(HLG)
- LUT
- Brightness\*
- Contrast\*
- Chroma\*
- Sharpness\*
- Tint\*
- Color Temperature\*
- Aspect\*
- Backlight\*

Function 2 (Same function 1)

Function 3 (Same function 1)

Function 4 (Same function 1)

Back ◀

\* 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]

Version Information Press MENU Firmware Ver BM5-V1.01.23

Update (USB) Press MENU Are you sure? Press MENU, Then ◀▶ Yes/No

Back ◀

⚠ Please pay attention to the official website ([www.pkscorp.com](http://www.pkscorp.com)) update the latest firmware!

### [Exit]

\*Shortcut keys (hidden menu operation) Operation:

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

### [Camera Control Setting] \*The signal needs to be connected before setting.

Camera	<u>Press MENU, Then</u> ↔	◀ Canon/Canon(LANC)/Sony/Sony(LANC)/Panasonic/BMPCC/Remote/Z CAM E2 ▶
Position	<u>Press MENU, Then</u> ↔	◀ Right/Left ▶
Update(USB)	<u>Press MENU</u>	Are you sure? <u>Press MENU, Then</u> ↔ Yes/No
Version		V1.1
Exit		↩

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]

Color	<u>Press MENU, Then</u> ↔	◀ 1/2/3/4/5/6/7/8/9/10 ▶
Exit	<u>Press MENU, Then</u> ↔	◀ Red/Green/Blue/Black/White ▶
Factor		↩

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]

Hight 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 Press MENU, Then ◀ 0 ~ 128 ▶  
 Color Press MENU, Then ◀ Blue/Black/White/Red/Green ▶  
 Exit ◀ ◻ ▶

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

[UnderScan Setting]

Factor Press MENU, Then ◀ 50 ~ 100 ▶  
 Exit ◀ ◻ ▶

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

[Histogram Setting]

Position Press MENU, Then ◀ R+B/L+B/L+T/R+T ▶  
 Size Press MENU, Then ◀ Small/Large ▶  
 Transparent Press MENU, Then ◀ On/Off ▶  
 Exit ◀ ◻ ▶

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

[Zooming Setting]

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

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

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

[Audio Meters]

Audio Meters Press MENU, Then ◀ On/Off ▶  
 Position Press MENU, Then ◀ Top/Left/Division/Right/Bottom ▶  
 Blending Press MENU, Then ◀ 0 ~ 100 ▶  
 Exit ◀ ◻ ▶

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

[Waveform Setting]

Waveform Press MENU, Then ◀ Off ▶  
 Options >  
 Blending --  
 SDI WF Mode Press MENU, Then ◀ On Screen/Output ▶  
 Exit ◀ ◻ ▶

[Waveform Setting]

Waveform Press MENU, Then ◀ Full Screen ▶  
 Options Press MENU, Then >  
 Blending Press MENU, Then ◀ 0 ~ 100 ▶  
 SDI WF Mode Press MENU, Then ◀ On Screen/Output ▶  
 Exit ◀ ◻ ▶  
 Full Screen Press MENU, Then ◀ Luma WF/RGB WF/VectorScope/ Luma HIS/RGB HIS ▶  
 Waveform Options Press MENU, Then ◀ On/Off ▶  
 Back ◀ ◻ ▶

**[Waveform Setting]**

Waveform	<u>Press MENU, Then</u> ↔↔	◀ Four Screen ▶
Options		>
Blending		--
SDI WF Mode	<u>Press MENU, Then</u> ↔↔	◀ On Screen/Output ▶
Exit		↵

**[Waveform Setting]**

Waveform	<u>Press MENU, Then</u> ↔↔	◀ All Types ▶
Options		>
Blending		--
SDI WF Mode		On Screen
Exit		↵

**[Waveform Setting]**

Waveform	<u>Press MENU, Then</u> ↔↔	◀ User Mode ▶
Options	<u>Press MENU, Then</u> ↔↔	>
Blending	<u>Press MENU, Then</u> ↔↔	◀ 0~100 ▶
SDI WF Mode		On Screen
Exit		↵

Luma Waverform	<u>Press MENU, Then</u> ↔↔	>
RGB Waverform	<u>Press MENU, Then</u> ↔↔	>
VectorScope	<u>Press MENU, Then</u> ↔↔	>
Luma Histogram	<u>Press MENU, Then</u> ↔↔	>
RGB Histogram	<u>Press MENU, Then</u> ↔↔	>
Back		↵

Luma Waverform	<u>Press MENU, Then</u> ↔↔	◀ On/Off ▶
Position	<u>Press MENU, Then</u> ↔↔	◀ L+B/M+B/R+B/L+T/ M+T上/R+T/L+C/R+C ▶
Back		↵
RGB Waverform	<u>Press MENU, Then</u> ↔↔	◀ On/Off ▶
Position	<u>Press MENU, Then</u> ↔↔	◀ R+B/R+T/M+T/R+T/ L+C/R+C/L+B/M+B ▶
Back		↵
VectorScope	<u>Press MENU, Then</u> ↔↔	◀ On/Off ▶
Position	<u>Press MENU, Then</u> ↔↔	◀ M+B/R+B/L+T/M+T/ R+T/L+C/R+C/L+B ▶
Back		↵
Luma Histogram	<u>Press MENU, Then</u> ↔↔	◀ On/Off ▶
Position	<u>Press MENU, Then</u> ↔↔	◀ R+T/L+C/R+C/L+B/ M+B/R+B/L+T/M+T ▶
Back		↵
RGB Histogram	<u>Press MENU, Then</u> ↔↔	◀ On/Off ▶
Position	<u>Press MENU, Then</u> ↔↔	◀ R+C/L+B/M+B/R+B/ L+T/M+T/R+T/L+C ▶
Back		↵

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.



Touch Gestures Instructions:



Click

Display shortcut key on/off and signal parameter information



Slide

Drag image



Double finger pinch

Zoom out image

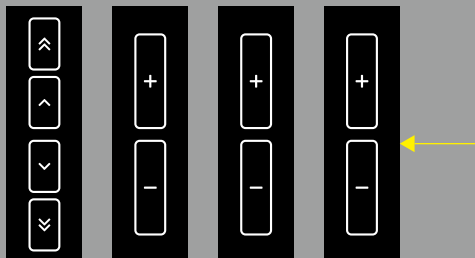
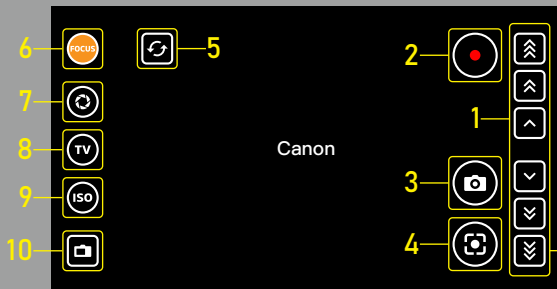


Double finger spread

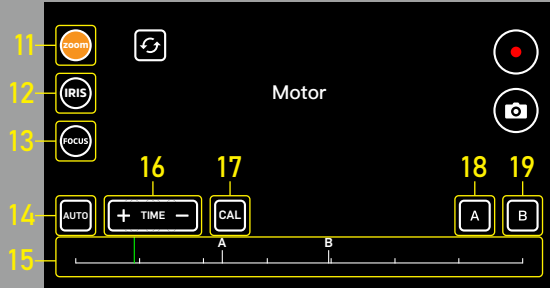
Zoom in image





Camera Control Page Introduction

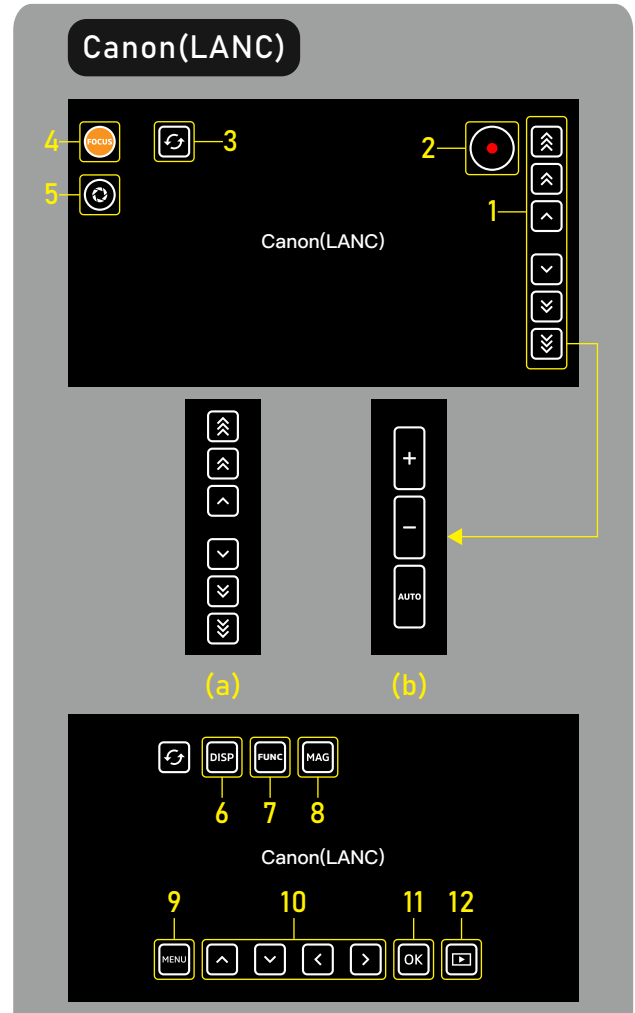
Canon

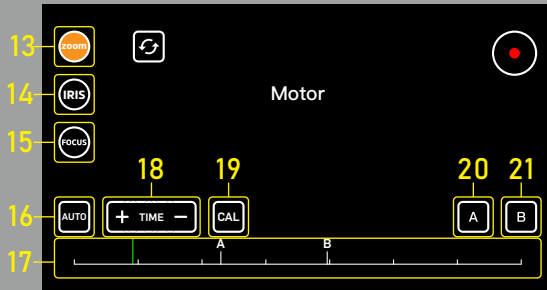



(a) (b) (c) (d)



- 1、(a): Click "  ",Focus Adjustment  
(During adjusting focus,peaking will be turned on automatically and turned off in 1s delay)
- (b): Click "  ",Aperture Size Adjustment(+/-)
- (c): Click "  ",Shutter Time Adjustment(+/-)
- (d): Click "  ",ISO Control Adjustment(+/-)
- 2: Record (During REC on, hidden other icons. If it is not on focus mode, it will be transferred to focus mode by compulsory)
- 3: Shoot
- 4: Focus(Hold down the icon and swipe up to take a picture)
- 5: Switch the control interface
- 6: Switch to Control Focus
- 7:Switch to Control the Size of Aperture
- 8:Switch to Shutter Time Adjustment Control Page
- 9:Switch to Control ISO Adjustment
- 10: Switch viewfinder
- 11: Adjust NO.1 Motor Drive of Nucleus-M or Nucleus-N
- 12: Adjust NO.2 Motor Drive of Nucleus-M
- 13: Adjust NO.3 Motor Drive of Nucleus-M
- 14: After setting,the Motor Drive runs automatically at A/B point
- 15: Drag to adjust Motor Drive's travel
- 16:A/B point operation speed adjustment
- 17:Motor Drive POST
- 18: A point set/cacel
- 19: B point set/cacel





1、(a):Click "  ",Focus Adjustment  
(During adjusting focus,peaking will be turned on  
automatically and turned off in 1s delay )

(b):Click "  ",Aperture Size Adjustment(+/-/Auto)

2: Record(During REC on,hidden other icons. If it is not on  
focus mode,it will be transferred to focus mode by compulsory)

3: Switch the control interface

4: Switch to Control Focus

5: Switch to Control the Size of Aperture

6: Display

7:Fuctiont

8:Digital Zoom

9:MENU(Same with the camera button)

10: Joystick(Same with the camera button)

11:OK(Same with the camera button)

12: Switch Playback Mode/Normal Mode

13: Adjust NO.1 Motor Drive of Nucleus-M or Nucleus-N

14: Adjust NO.2 Motor Drive of Nucleus-M

15: Adjust NO.3 Motor Drive of Nucleus-M

16: After setting,the Motor Drive runs  
automatically at A/B point

17: Drag to adjust Motor Drive's travel

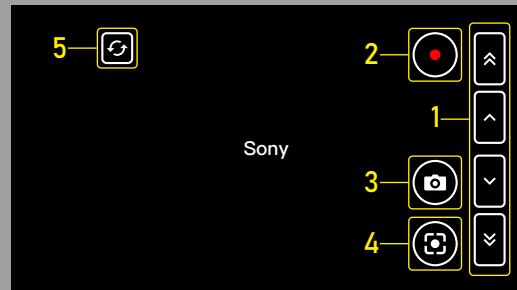
18: A/B point operation speed adjustment

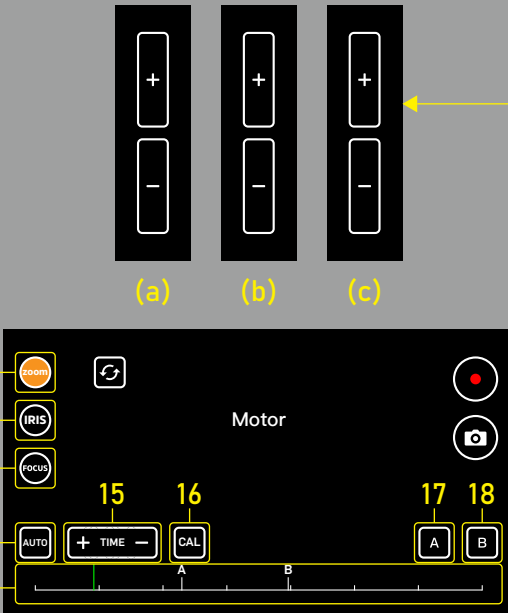
19: Motor Drive POST

20: A point set/cancel

21: B point set/cancel

## Sony



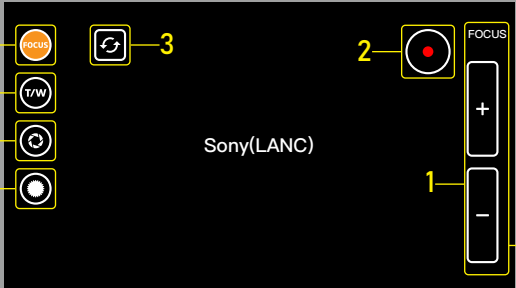


The diagram shows three vertical sliders labeled (a), (b), and (c), each with a '+' button on top and a '-' button on the bottom. A yellow arrow points to the '+' button of slider (c). Below these is a screenshot of the 'Motor' control interface. The interface includes a 'zoom' icon (1), a refresh icon, a red record button (2), an 'IRIS' icon (4), a camera icon, a 'focus' icon (4), and a 'CAL' button (16). A horizontal slider at the bottom is labeled with 'A' and 'B' points. The 'AUTO' button is labeled 13, and the '+ TIME -' button is labeled 15. The 'A' and 'B' buttons are labeled 17 and 18 respectively.

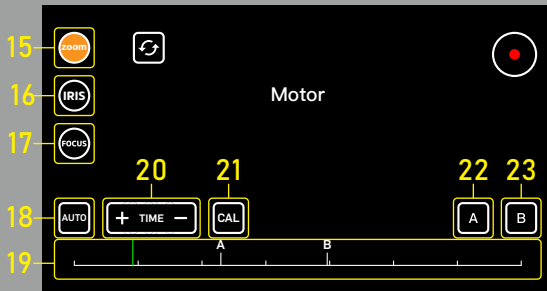
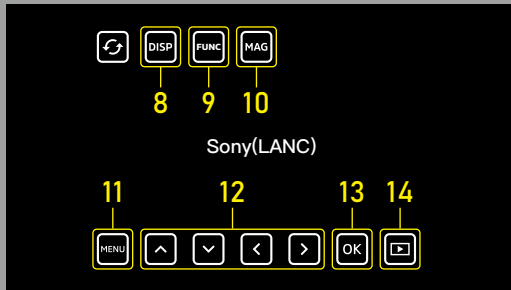
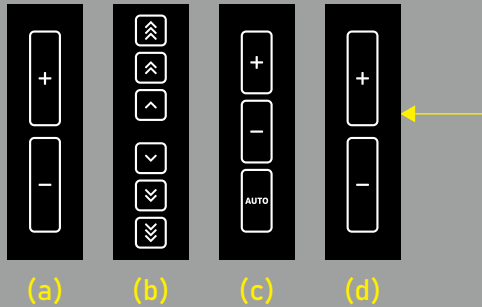
- 1: Zoom
- 2: Record
- 3: Shoot
- 4: Focus (Hold down the icon and swipe up to take a picture)
- 5: Switch the control interface
- 6: (a): Click "⊕", Aperture Size Adjustment(+/-)
- (b): Click "TV", Shutter Time Adjustment(+/-)
- (c): Click "ISO", ISO Control Adjustment(+/-)
- 7: Switch to Control the Size of Aperture
- 8: Switch to Shutter Time Adjustment Control Page

- 9: Switch to Control ISO Adjustment
- 10: Adjust NO.1 Motor Drive of Nucleus-M or Nucleus-N
- 11: Adjust NO.2 Motor Drive of Nucleus-M
- 12: Adjust NO.3 Motor Drive of Nucleus-M
- 13: After setting, the Motor Drive runs automatically at A/B point
- 14: Drag to adjust Motor Drive's travel
- 15: A/B point operation speed adjustment
- 16: Motor Drive POST
- 17: A point set/cancel
- 18: B point set/cancel

### Sony(LANC)



The diagram shows the 'Sony(LANC)' control interface. It includes a 'focus' icon (4), a refresh icon (3), a red record button (2), a 'T/W' icon (5), a camera icon, a 'FOCUS' icon (7), and a vertical slider with '+' and '-' buttons (1). The slider is labeled 'FOCUS' at the top.



1、(a): Click "focus", Focus Adjustment  
(During adjusting focus, peaking will be turned on automatically and turned off in 1s delay )

(b): Click "T/W", Focus Length T/W Control Page  
(c): Click "Aperture Size Adjustment (+/-/Auto)  
(d): Click "Handle Wheel can be Adjusted (+/-)

2: Record (During REC on, hidden other icons. If it is not on focus mode, It will be transferred to focus mode by compulsory)

3: Switch the control interface

4: Switch to Control Focus

5: Switch to Control Focus Length T/W

6: Switch to Control the Size of Aperture

7: Same as Handle wheel

8: Display

9: Fuction

10: Digital Zoom

11: MENU (Same with the camera button)

12: Joystick (Same with the camera button)

13: OK (Same with the camera button)

14: Switch Playback Mode/Normal Mode

15: Adjust NO.1 Motor Drive of Nucleus-M or Nucleus-N

16: Adjust NO.2 Motor Drive of Nucleus-M

17: Adjust NO.3 Motor Drive of Nucleus-M

18: After setting, the Motor Drive runs automatically at A/B point

19: Drag to adjust Motor Drive's travel

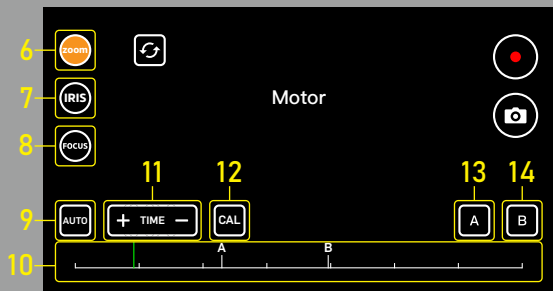
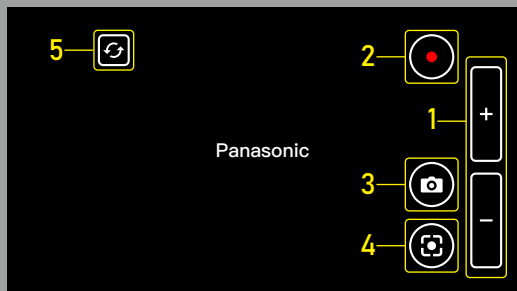
20: A/B point operation speed adjustment

21: Motor Drive POST

22: A point set/cancel

23: B point set/cancel

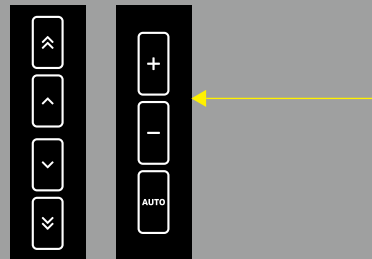
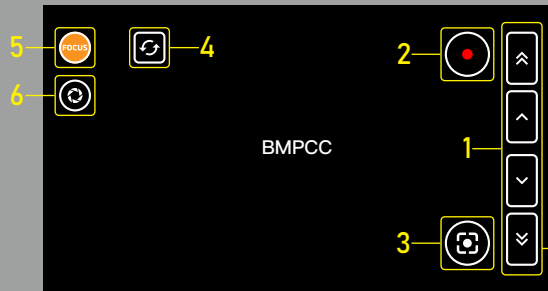
**Panasonic**



- 1: Zoom
- 2: Record
- 3: Shoot
- 4: Focus (Hold down the icon and swipe up to take a picture)
- 5: Switch the control interface
- 6: Adjust NO.1 Motor Drive of Nucleus-M or Nucleus-N
- 7: Adjust NO.2 Motor Drive of Nucleus-M
- 8: Adjust NO.3 Motor Drive of Nucleus-M

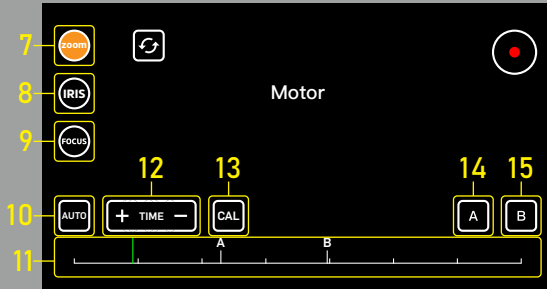
- 9: After setting, the Motor Drive runs automatically at A/B point
- 10: Drag to adjust Motor Drive's travel
- 11: A/B point operation speed adjustment
- 12: Motor Drive POST
- 13: A point set/cancel
- 14: B point set/cancel


**BMPCC**



(a)

(b)



1、(a):Click " ,Focus Adjustment  
(During adjusting focus,peaking will be turned on automatically and turned off in 1s delay )

(b):Click " ,Aperture Size Adjustment(+/-/Auto)

2:Record

3:Focus

4: Switch the control interface

5:Switch to Control Focus

6: Switch to Control the Size of Aperture

7:Adjust NO.1 Motor Drive of Nucleus-M or Nucleus-N

8:Adjust NO.2 Motor Drive of Nucleus-M

9:Adjust NO.3 Motor Drive of Nucleus-M

10:After setting,the Motor Drive runs automatically at A/B point

11: Drag to adjust Motor Drive's travel

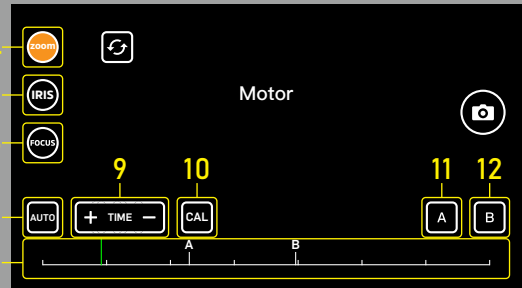
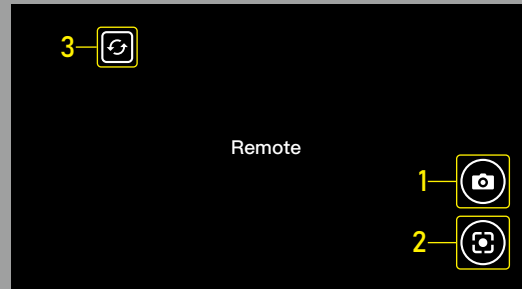
12:A/B point operation speed adjustment

13:Motor Drive POST

14:A point set/cancel

15: B point set/cancel

## Remote



1: Shoot

2: Focus (Hold down the icon and swipe up to take a picture)

3: Switch the control interface

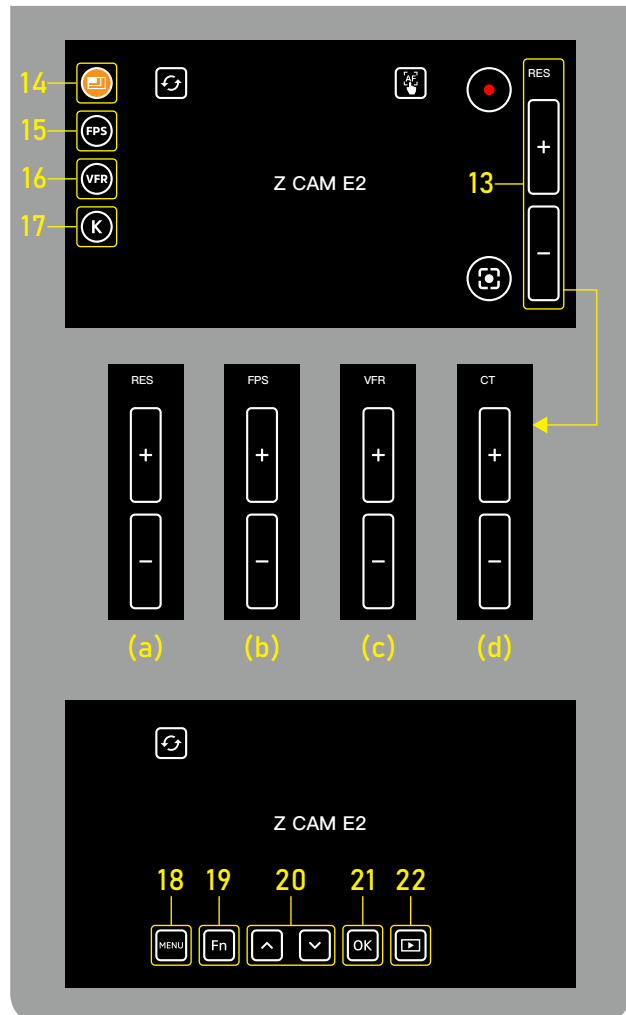
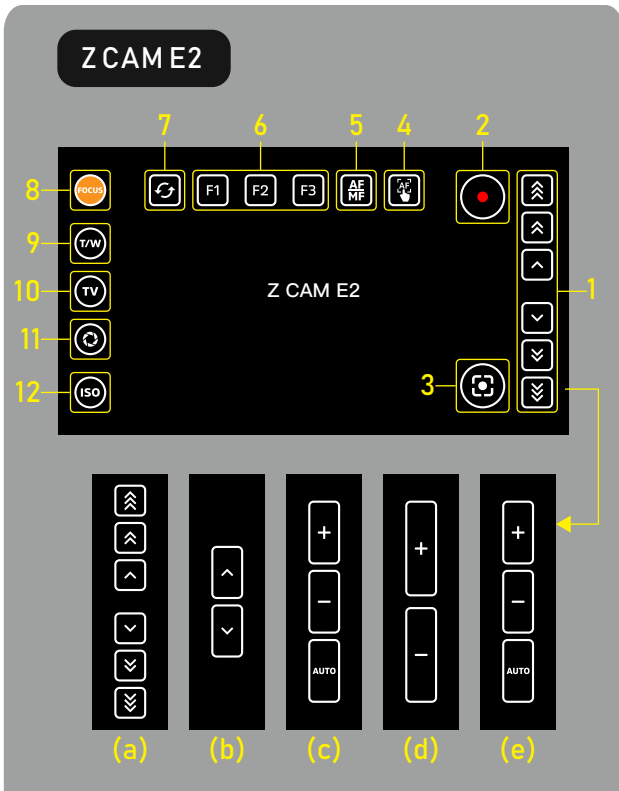
4:Adjust NO.1 Motor Drive of Nucleus-M or Nucleus-N

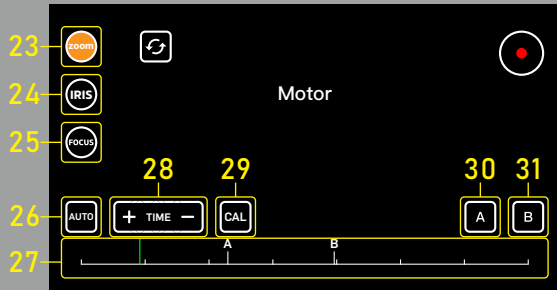
5:Adjust NO.2 Motor Drive of Nucleus-M






6:Adjust NO.3 Motor Drive of Nucleus-M





7: After setting,the Motor Drive runs automatically at A/B point

- 8: Drag to adjust Motor Drive's travel
- 9:A/B point operation speed adjustment
- 10: Motor Drive POST
- 11:A point set/cancel
- 12:B point set/cancel





- 1: (a): Click "  ",Focus Adjustment  
(During adjusting focus,peaking will be turned on automatically and turned off in 1s delay )
- (b): Click "  ",Focus Length T/W Control Page
- (c): Click "  ",Shutter Time Adjustment(+/-/Auto)
- (d): Click "  ",Aperture Size Adjustment(+/-)
- (e): Click "  ",ISO Control Adjustment(+/-/Auto)
- 2: Record
- 3: Focus Adjustment
- 4: Switch to Manual Focus/Auto Focus
- 5: Switch Touch Focus Page/Normal Control Page  
(Touch focus control is only available in Touch Focus Page,  
During adjusting focus,peaking will be turned on automatically and turned off in 3s delay)
- 6: F1-F3(Same with the camera button)
- 7: Switch the control interface
- 8: Switch to Control Focus
- 9: Switch to Control Focus Length T/W
- 10: Switch to Shutter Time Adjustment Control Page
- 11: Switch to Control the Size of Aperture

- 12: Switch to Control ISO Adjustment  
(When switch to camera control function,adjustment key will be changed as well)
- 13: (a): Click "  ",Resolution adjustment
- (b): Click "  ",Frame adjustment
- (c): Click "  ",Manual frame adjustment
- (d): Click "  ",Color temperature adjustment
- 14: Switch to resolution adjustment
- 15: Switch to frame adjustment
- 16: Switch to manual frame adjustment
- 17: Switch to color temperature adjustment  
(Be available when white balance is in manual control mode)
- 18: MENU (Same with the camera button)
- 19: Fn(Same with the camera button)
- 20: Joystick(Same with the camera button)
- 21: OK(Same with the camera button)
- 22: Switch Playback Mode/Normal Mode
- 23: Adjust NO.1 Motor Drive of Nucleus-M or Nucleus-N
- 24: Adjust NO.2 Motor Drive of Nucleus-M
- 25: Adjust NO.3 Motor Drive of Nucleus-M
- 26: After setting,the Motor Drive runs automatically at A/B point
- 27: Drag to adjust Motor Drive's travel
- 28: A/B point operation speed adjustment
- 29: Motor Drive POST
- 30: A point set/cancel
- 31: B point set/cancel

## 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 BM5 as an example, for other models, please download the corresponding model upgrade package in our official website and follow the steps below.

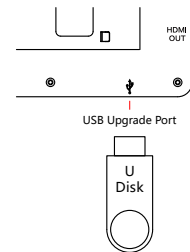
### Main firmware upgrade:

1

Unzip the upgrade files of the main firmware, and then send the upgrade file (BM5.bin) to the root directory of the U disk.

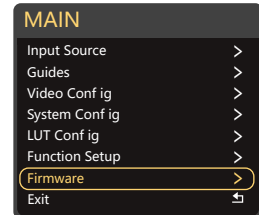
2

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



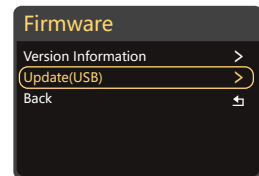
3

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



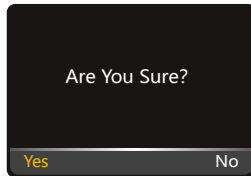
4

Select Firmware Upgrade(USB)

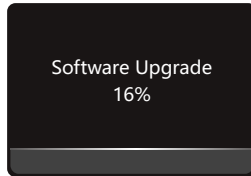


**5**

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.

