SWIT®

User Manual

Please read this User Manual throughout before using.

Preface

Congratulations on your purchase of this product. Please read this user manual carefully.

1．All internal technologies of this product are protected, including device, software and trademark. Reproduction in whole or in part without written permission is prohibited.

2．All brands and trademarks of SWIT Electronics Co., Ltd. are protected and other relative trademarks in this user manual are the property of their respective owners.

3．Due to constant effort of product development, SWIT reserves the right to make changes and improvements to the product described in this manual without prior notice.

4．The warranty period of this product is 2 years, and does not cover the following:

(1) Physical damage to the surface of the products, including scratches, cracks or other damage to the LCD screen or other externally exposed parts;

(2) Misuse, abuse or negligent operation to the product;

(3) The product is disassembled by anyone other than an authorized service center.

It is considered normal that the LCD bright dot defects are not to exceed three.

5．For any suggestions and requirements on this product, please contact us through phone, fax, Email, etc.

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Maintenance

- **The Monitor**
  1. Please keep the signal terminals and the cooling vent away from knife-edge, metal or liquid in order to avoid short-circuit and damage.
  2. Please don't try to disassemble any parts of the monitor by yourself, which would probably damage the monitor and do harm to human body, and it will cause the invalidation of product warranty.
  3. Please don't touch the screen with your fingers, which would probably deface the screen.
  4. Please don't press the screen; the LCD is extremely exquisite and flimsy.
- **The power**

  Please use the power adapter provided or recommended by the manufacturer in order to avoid damage. For a third party power adapter, please make sure the voltage range, supplied power, and polarity of power lead are fit.

  Please disconnect the power cable under the following situations:

  1. If you do not operate this monitor for a period of time;
  2. If the power cable or power adaptor is damaged;
  3. If the monitor housing is broken.
- **Working Environment**
  1. Please don't lay this product on the unstable place.
  2. Please don't lay this product in hot, cold or wet location.
- **Cleaning**
  1. Please clean the screen with dry and downy cloth or special LCD cleanser.
  2. Please do not press hard when cleaning the screen.
  3. Please do not use water or other chemical cleanser to clean the screen. The chemical may damage the LCD.
  4. For first time use, please tear off the factory LCD film. To protect the LCD screen, please post the LCD protection film offered in the package.

1. Features

◆ **High resolution LCD Panel**
7-inch, 16:9, 1024×600, 16.77 million colors, 900:1 contrast, 500cd/m2 brightness and H160°/ V160° wide viewing angle

◆ **Multi Input/Output**
Support HDMI, CVBS, Analog audio (L/R) input and CVBS loop through output

◆ **HDMI embedded audio output**
Convert HDMI embedded audio to analog and output via 3.5mm earphone jack.

◆ **Audio meter display**
The monitor can display 2 channels HDMI audio bars. The audio bars are green under -20dB, yellow between -20dB and -10dB, and red above -10dB.

◆ **Peaking focus assist**
The Peaking focus assist function is to mark the sharpest edges of the image with red or blue color, to check if the subjects are focused.

◆ **Zebra stripes**
Zebra Stripes are used to check if the image is over exposed or not by showing black and white lines on the monitor. It is considered over exposed when luminance value exceeds 90%.

◆ **False color**
The false color is used to aid in the setting of camera exposure. Under false color mode, there's a false color key on the bottom of screen for reference. The over exposed subjects (above 101 IRE) on the monitor will display as red, and the underexposed subjects will display as blue. For correct exposed subjects, it will display as green and pink.

◆ **Internal colorbar**
Generate 100% colorbar for video calibration.

◆ **Underscan and Overscan**
Switch between underscan and overscan mode.

◆ **Safe area**
The safe area is offered to mark an area of picture that can be seen on the television screens.

◆ **Pixel to pixel zoom-in**
The real time zoom-in function is to enlarge to the input video as pixel to pixel from the center.

◆ **Image flip**
Rotate the image by 180°.

◆ **User definable function keys**
There are 2 function keys on the monitor front panel, and users could define the functions to the keys to achieve shortcut.

◆ **User editable video title**
User can edit a video title for the current camera, and the title will display on the top of screen.

◆ **Front and Rear 3-color TALLY light**
2 TALLY lights design, to give "live" signals to people in front of the camera, as well as the camera operator behind.

◆ **Snap-on DV battery mount**
The monitor supports various types of DV battery mounts, and the DV mounts can be easily taken off and changed to another type.

2. Panel Instruction

Front view
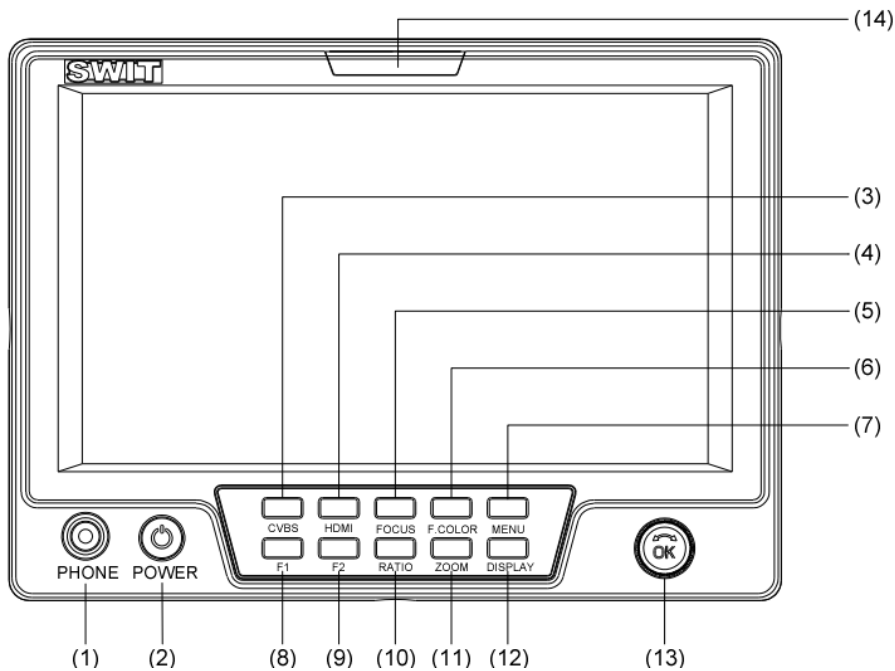
⑴ **PHONE:** 3.5mm Earphone jack, for HDMI embedded audio and L/R analog audio monitoring

⑵ **POWER:** Power on/off

Connect with power cable, press the "POWER" and the monitor will be switched on and get into normal working status. Press the "POWER" again, the indicator is turned off and monitor is switched off.

Disconnect with power cable or battery if the monitor will not be used for a period of time.

⑶ **CVBS:** Press to switch the input signal to Composite video

⑷ **HDMI:** Press to switch the input signal to HDMI

⑸ **FOCUS:** Peaking Focus Assist

Press "FOCUS" once, it will display the current peaking on/off status. Press "FOCUS" again to switch on RED line focus assist, switch on BLUE line focus assist, and switch off in turn.

⑹ **F.COLOR:** False color

Press "F.COLOR" once, it will display the current false color on/off status. Press "F.COLOR" again to switch on/off the false color mode.

⑺ **MENU:** Press to enter Menu

⑻ **F1:** User definable function key 1

⑼ **F2:** User definable function key 2

⑽ **RATIO:** 16:9 and 4:3 switch

⑾ **ZOOM:** Picture Zoom-in

Press "ZOOM" to switch ZOOM1: Canon DSLR scale zoom-in, and ZOOM2: pixel to pixel zoom-in.

⑿ **DISPLAY:** Display current settings

Press "Display" to display safety mark, title and the current input signal information

⒀ **OK:** Select and Apply

Under menu system, revolve "OK" to adjust settings and press to apply;

and out of menu system, directly revolve "OK" to adjust volume.

⒁ **TALLY Light:** Red, Green and Yellow 3-color TALLY indicator

Rear view
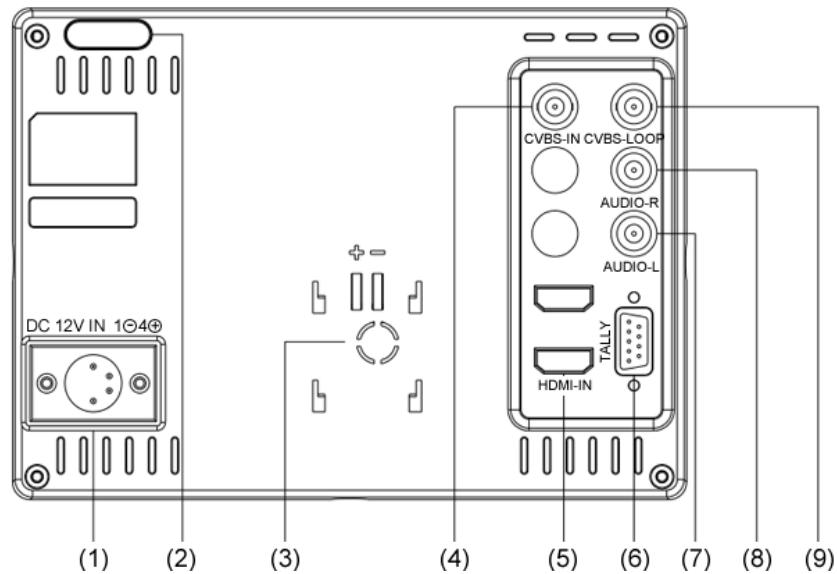
(1) **DC 12V IN:** Connect with DC12V 4-pin XLR power adapter. (Pin 1: Negative, Pin 4: Positive)

(2) **TALLY Light:** Red, Green and Yellow 3-color TALLY indicator

(3) **Battery mount install:**

Connect with Gold mount, V-mount, or SWIT S-7004 series snap-on DV mounts,

See details in "Optional Battery Mount".

(4) **CVBS-IN:** Composite video input (BNC connector)

(5) **HDMI-IN:** HDMI input

(6) **TALLY controlling port** (RS-232)

(7) **AUDIO L:** Stereo audio left channel input (RCA connector)

(8) **AUDIO R:** Stereo audio right channel input (RCA connector)

(9) **CVBS-LOOP:** Composite video loop through output (BNC connector)

Input formats

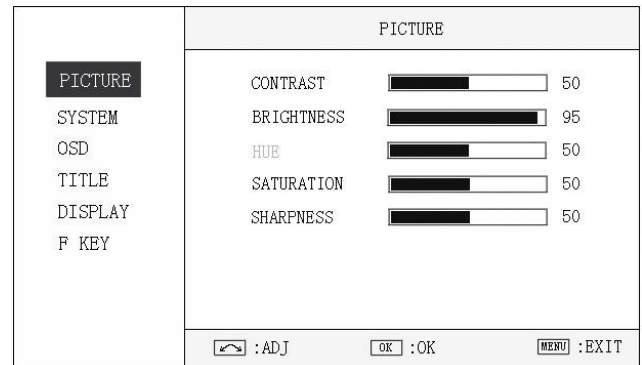| Input	Supported formats
CVBS	PAL / NTSC
HDMI	480I / 576I / 480P / 576P
	1080i (60 / 59.94 / 50)
	720p (60 / 59.94 / 50)
	1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)

3. Menu Operation

⑴ Press "MENU" and it will display menu system
⑵ Revolve "OK" to select an item. The selected item will be highlighted display.
⑶ Press "OK" to enter the selected item.
⑷ Under menu system, press "MENU" to back to previous menu.
　　*The menu will automatically save and quit if it remains idle.

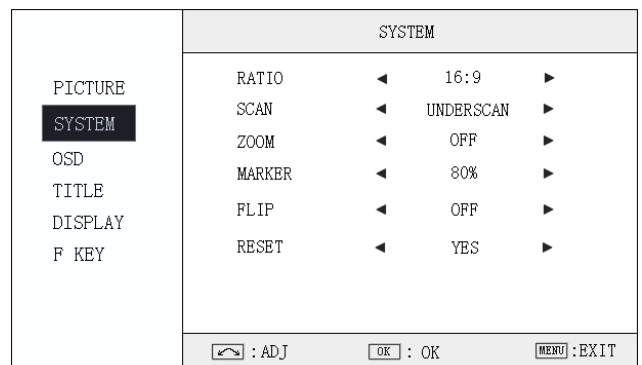## 3.1 PICTURE submenu

The PICTURE submenu includes:
⑴ **CONTRAST:** 0-100 value adjustment
⑵ **BRIGHTNESS:** 0-100 value adjustment
⑶ **HUE:** 0-100 value adjustment
　　(Only available under CVBS NTSC input)
⑷ **SATURATION:** 0-100 value adjustment
⑸ **SHARPNESS:** 0-100 value adjustment

PICTURE	
CONTRAST	50
BRIGHTNESS	95
HUE	50
SATURATION	50
SHARPNESS	50

PICTURE / SYSTEM / OSD / TITLE / DISPLAY / F KEY

:ADJ　　OK :OK　　MENU :EXIT

3.2 SYSTEM submenu

The SYSTEM submenu includes:
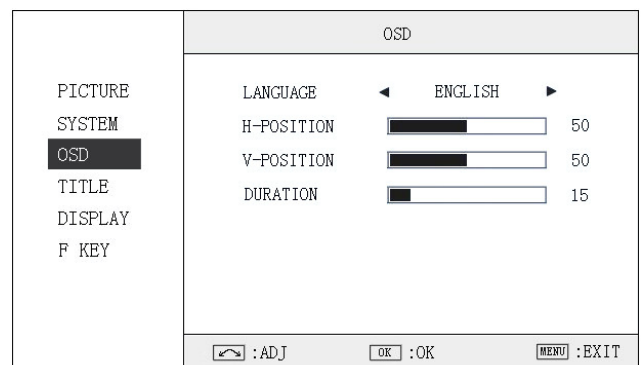⑴ **RATIO:** Aspect ratio "16:9" / "4:3" selection
⑵ **SCAN:** "UNDERSCAN" / "OVERSCAN" selection
⑶ **ZOOM:** "OFF", "ZOOM1" and "ZOOM2" selection
　　ZOOM1: Canon DSLR scale zoom-in
　　ZOOM2: Pixel to Pixel zoom-in
⑷ **MARKER:** Select and set the safe area scale from 80%, 85%, 90% and 95%.
⑸ **FLIP:** Select "ON" to flip the picture by 180°.
⑹ **RESET:** Select "YES" to recover all to factory setting.

SYSTEM		
RATIO	◄ 16:9	►
SCAN	◄ UNDERSCAN	►
ZOOM	◄ OFF	►
MARKER	◄ 80%	►
FLIP	◄ OFF	►
RESET	◄ YES	►

PICTURE / SYSTEM / OSD / TITLE / DISPLAY / F KEY

:ADJ　　OK : OK　　MENU :EXIT

3.3 OSD submenu

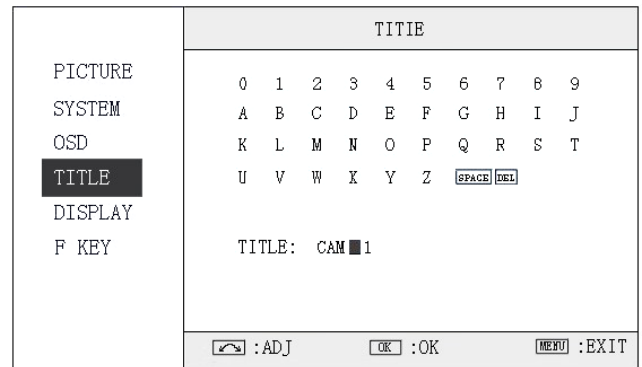The OSD submenu includes:
⑴ **LANGUAGE:** Menu language selection
⑵ **H-POSITION:** Menu horizontal position (0-100) adjustment, real-time preview and default value: 50.
⑶ **V-POSITION:** Menu vertical position (0-100) adjustment, real-time preview and default value: 50.
⑷ **DURATION:** Menu timeout setting (5-60)
　　Set a time (in seconds) in which the menu will automatically quit if remains idle. Default: 15.

OSD		
LANGUAGE	◄ ENGLISH	►
H-POSITION	50	
V-POSITION	50	
DURATION	15	

PICTURE / SYSTEM / OSD / TITLE / DISPLAY / F KEY

:ADJ　　OK :OK　　MENU :EXIT
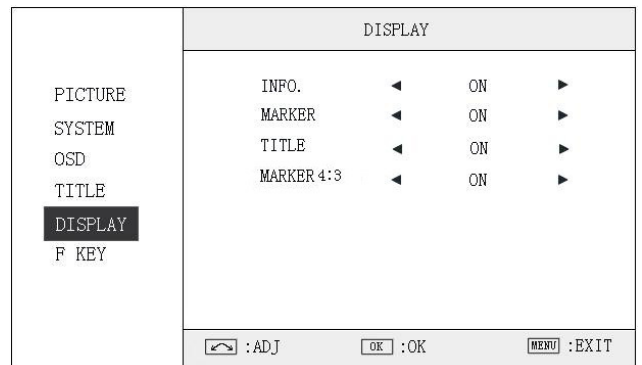
3.4 TITLE submenu

Revolve "OK" button to select the letters, and press "OK" to input. Select SPACE to input space and DEL to delete the left letter. Max 10 letters are supported.

After setting, press "MENU", the system will save data to current user and quit menu. The menu will automatically save and quit if it remains idle.

```
                    TITIE
PICTURE
          0  1  2  3  4  5  6  7  8  9
SYSTEM
          A  B  C  D  E  F  G  H  I  J
OSD
          K  L  M  N  O  P  Q  R  S  T
TITLE
          U  V  W  X  Y  Z  SPACE DEL
DISPLAY

F KEY        TITLE:  CAM■1



      ⤭ :ADJ       OK :OK        MENU :EXIT
```

3.5 DISPLAY submenu

The DISPLAY submenu is to select the items to be displayed on screen when 'DISPLAY" button is pressed. Revolve "OK" to turn on/off the items:
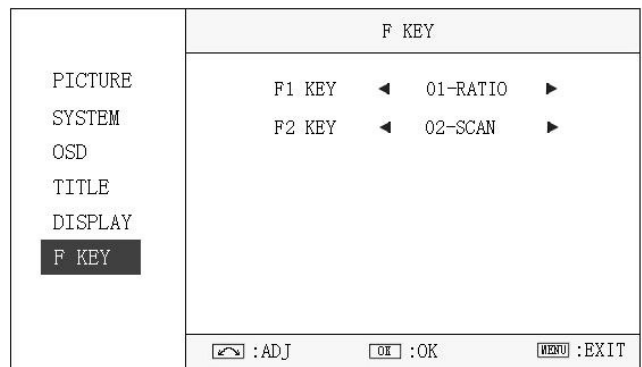
(1) **INFO:** Including Input format, aspect ratio, underscan/overscan, zoom status
(2) **MARKER:** Safe area
(3) **TITLE**: User edited title
(4) **MARKER4:3:** The 4:3 scale mark on 16:9 image. (Only available under HD input)

```
                    DISPLAY
PICTURE
          INFO.       ◄    ON    ►
SYSTEM
          MARKER      ◄    ON    ►
OSD
          TITLE       ◄    ON    ►
TITLE
          MARKER 4:3  ◄    ON    ►
DISPLAY

F KEY


      ⤭ :ADJ       OK :OK        MENU :EXIT
```

3.6 F KEY submenu

The F KEY Submenu is to define Function Key F1 and F2. The available function items are:

01- RATIO: Aspect ratio switch
02- SCAN: Underscan / Overscan switch
03- ZOOM: Picture Zoom-in
04- B/W: Color / Black & white switch
05- FLIP: Image flip
06- FOCUS: Peaking focus assist switch on/off
07- PATTERN: Internal colorbar switch on/off
08- ZEBRA: Zebra over exposure switch on/off
09- F.COLOR: False color mode switch on/off
10- AUDIO BAR: Audio meter display switch on/off

```
                    F KEY
PICTURE
          F1 KEY   ◄   01-RATIO   ►
SYSTEM
          F2 KEY   ◄   02-SCAN    ►
OSD

TITLE

DISPLAY

F KEY


      ⤭ :ADJ       OE :OK        MENU :EXIT
```

4. TALLY Light Operation

There are front and rear TALLY lights on the monitor, which can display RED, GREEN and YELLOW signals. The TALLY light controlling port is the RS232 socket at the rear panel, and terminal description is as follows:
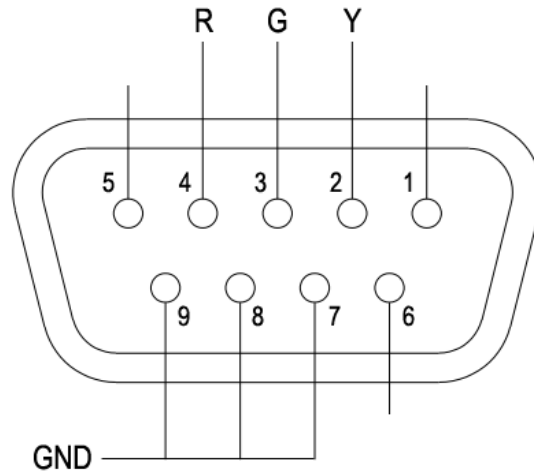
Terminal	1	2	3	4	5	6	7	8	9
Description		Y	G	R			GND	GND	GND

The RED light is on when connecting the terminal "R" with "GND", and goes out when disconnecting.
The GREEN light is on when connecting the terminal "G" with "GND", and goes out when disconnecting.
The YELLOW light is on when connecting the terminal "Y" with "GND", and goes out when disconnecting.

5. Cold Shoe Bracket

The provided monitor bracket supports both cold shoe and screw mount for camera connection.
1. For cold shoe: anticlockwise screw the knob to draw the bolt back, slide the cold shoe mount into camera, and then clockwise adjust the knob to fasten.
2. For screw mount: clockwise screw the knob to draw the bolt directly into the screw thread of camera till fastened.
3. Screw the ball head knob into monitors, and lock the ball head.

① Lock
② Knob
③ Cold shoe mount
④ Screw bolt

6. Optional Battery Mount

6.1 Battery mount choice

S-1071C+ monitor can use Gold mount, V-mount batteries, and DV batteries by connecting with SWIT S-7004 snap-on mount. There're following types of S-7004 for choice:

Model	Compatible battery type	Recommended SWIT battery
S-7004F	SONY L series NP-F770/970	S-8972, S-8970, S-8770
S-7004P	Panasonic CGA series D54S/D28S	S-8D62
S-7004J	JVC BN-V428U	S-8428
S-7004C	Canon BP series BP-930/945	S-8945, S-8845
S-7004U	SONY BP-U series U60/30	S-8U62
S-7004E	Canon DSLR, LP-E6	S-8PE6
S-7004B	Panasonic VW-VBG6	S-8BG6
S-7004V	JVC BN-VF823	S-8823

Remark: The Gold mount and V-mount are fixed on monitor at factory, not snap-on types.

6.2 Installation of S-7004 snap-on DV mount
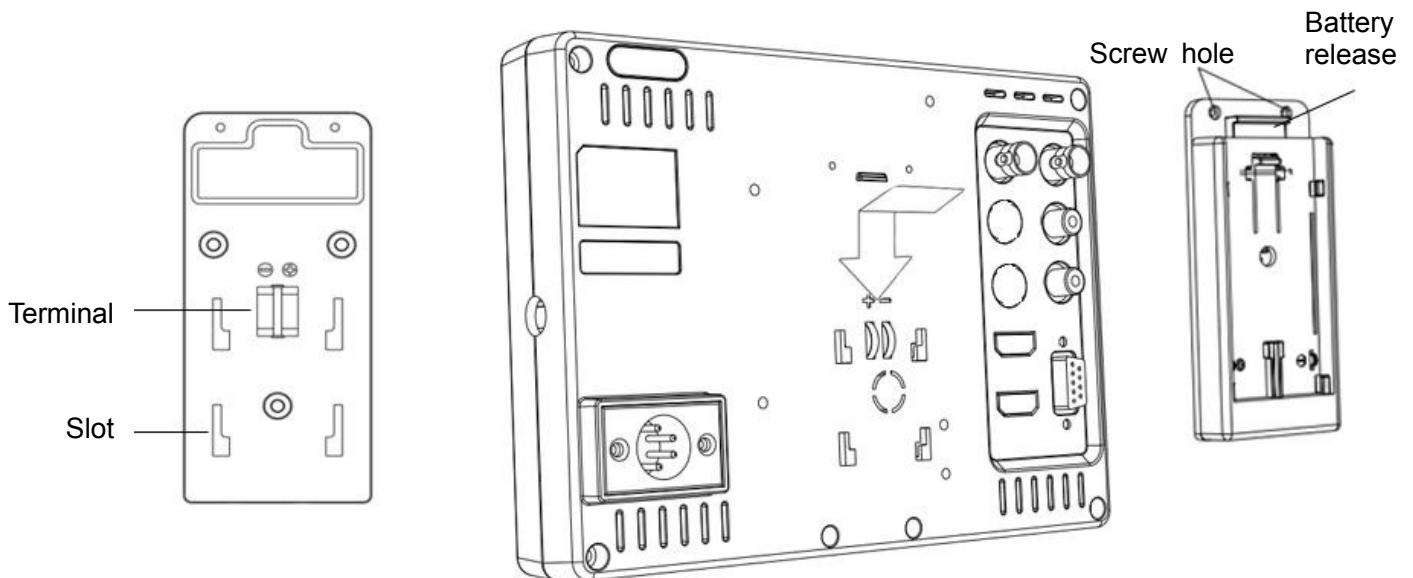
S-7004 DV mount is snap-on type. Please follow the instructions:

(1) Please make sure the power terminals are clean and in well condition before use.
(2) Align the S-7004 slots to the bolts of the monitor rear panel, and press tightly in.
(3) Slide the S-7004 mount down to the bottom.
(4) Fix the S-7004 mount by provided screws on the top side.
(5) Mount the corresponding battery to S-7004 to power the monitor.

7. Specifications

LCD Performance	
Size	7.0 inches
Display area	153.6×90mm
Resolution	1024×RGB×600
Aspect ratio	16:9/4:3
Brightness	400cd/m^2
Contrast	900:1
Color	16.77 million colors
Viewing angle	Horizontal: 160° Vertical: 160°
Video Format	
CVBS	NTSC／PAL
HDMI	480I / 576I / 480P / 576P
	1080i (60 / 59.94 / 50)
	720p (60 / 59.94 / 50)
	1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)
General	
Working voltage	DC 12V or battery 6.5V-17V
Power consumption	≤9W
Working temperature	0℃～+40℃
Working humidity	10%～90%
Storage temperature	-15℃～+60℃
Storage humidity	10%～90%
Dimensions	192×139×47mm
Net weight (main body)	550g

8. Packing List

Simple Package	Luxury Package
1. Monitor	1. Monitor
2. User Manual	2. User Manual
3. Power adaptor	3. Power adaptor
4. Power cable	4. Power cable
5. Cold shoe bracket	5. Cold shoe bracket
6. Sun hood	6. Sun hood
7. LCD protection film	7. LCD protection film
	8. Mini HDMI to standard HDMI cable
	9. D-tap to 4-pin XLR cable
	10. Extension arm trestle
	11. Carrying case