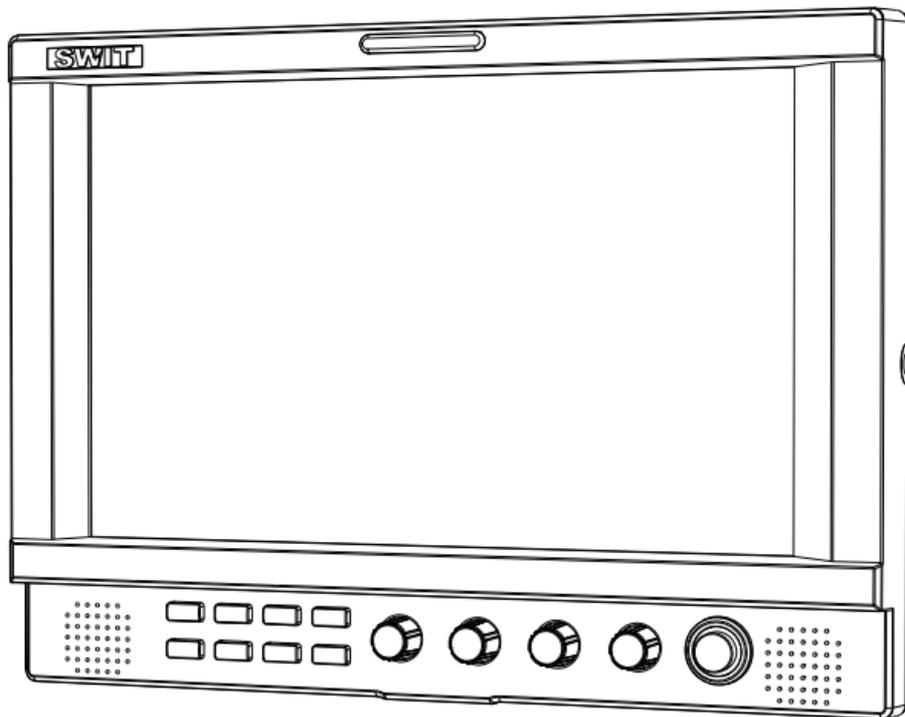


# SWIT®

Model: S-1092H

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9" Full HD Broadcast LCD Monitor



## User Manual

Ver: V1.0.0V00

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) The LCD dot defects are not over three;
  - (3) Any damage caused by using third-party power adaptors;
  - (4) Any damage or breakdown caused by use, maintenance or storage not according to the user manual.
  - (5) The product is disassembled by anyone other than an authorized service center.
  - (6) Any damage or breakdown not caused by the product design, workmanship, or manufacturing quality, etc.
5. For any suggestions and requirements on this product, please contact us through phone, fax, Email, etc.

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Website: <http://www.swit.cc>

# 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**

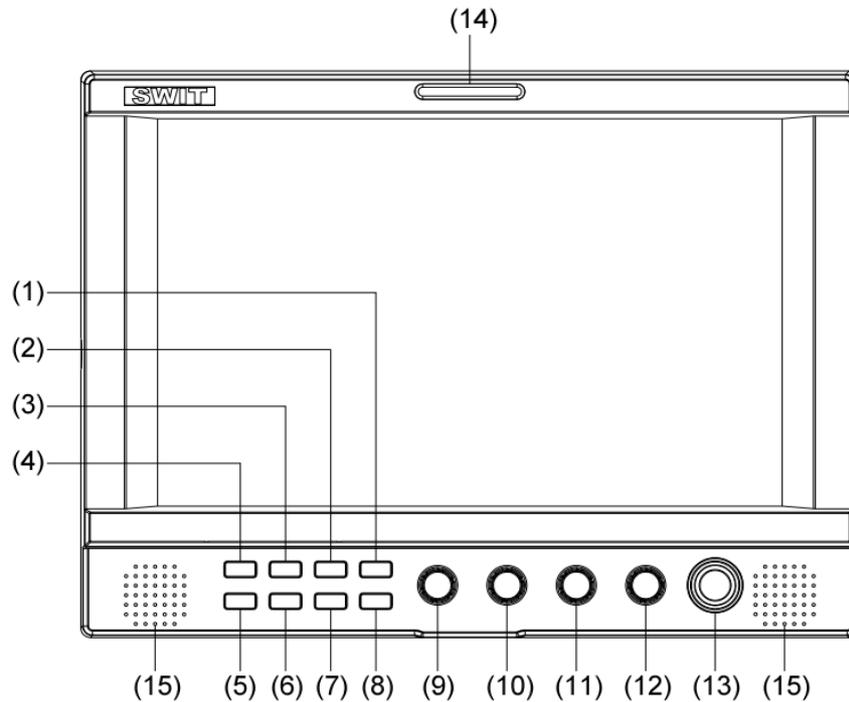
1. Please clean the screen with dry and downy cloth or special LCD cleanser.
2. Please do not press hard when cleaning the screen.
3. Please do not use water or other chemical cleanser to clean the screen. The chemical may damage the LCD.
4. For first time use, please tear off the factory LCD film. To protect the LCD screen, please post the LCD protection film offered in the package.

## 1. Features

- ◆ **Full-HD 9” LCD Panel**  
IPS LCD panel, 1920×1200 resolution, H 170°/V 170° viewing angle, 800:1 contrast,
- ◆ **LCD protective glass**  
Applied LCD protective glass to effectively protect the LCD panel from external shocks.
- ◆ **Multiple inputs**  
3G/HD/SD-SDI, HDMI and Composite input
- ◆ **Loop through outputs**  
3G/HD/SD-SDI, HDMI has loop through output
- ◆ **PIP Display**  
Under SDI/HDMI, switch on a sub-window to PIP display another CVBS  
Under CVBS, switch on a sub-window to PIP display another SDI/HDMI
- ◆ **SDI audio de-embed**  
De-embed SDI audio and output via 3.5mm headphone socket or speaker
- ◆ **2-ch audio meter display**  
Under SDI and HDMI, it displays channel1 and channel 2 embedded audio meters with mark. The audio meter is green, and will turn yellow when audio exceeds -20dB, and turn red when exceeds -9dB.
- ◆ **SDI Timecode**  
Under SDI input, it can display the SMPTE timecode, which is used extensively for synchronization, and for logging and identifying material in recorded media.
- ◆ **Peaking focus assist (red/blue switch)**  
The Peaking focus assist function is to mark the sharpest edges of the image with red or blue color, for users 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%.
- ◆ **Freeze frame**  
To capture and display the on-play current frame.
- ◆ **Blue/Red/Green only**  
Under the Blue/Red/Green Only Mode, only the blue/red/green pixels are used to generate the image, to assist image noise monitoring and adjustment.
- ◆ **Safe Area Adjustable**  
You can select the scale of safe area frame from 80%, 85%, 88%, 90% ,93% and 95% in the menu system.
- ◆ **Scale Marker**  
The monitor has 16:9 native LCD panel, and supports 4:3, 13:9, 14:9, 15:9, 1.85:1 and 2.35:1 scales marker for different video producing.
- ◆ **User definable function keys**  
There are 4 function keys on the monitor front panel, which permit users to define shortcuts for the various functions.
- ◆ **User definable GPI control**  
Offer DB9 interface to define functions for users to remote operate the monitor.
- ◆ **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.
- ◆ **Quick interchangeable battery mount**  
The monitor supports snap-on DV battery plates of various types, which can be easily taken of and changed to another type.

## 2. Panel Instruction

### Front view



(1) MENU: Press to enter Menu

(2) DISPLAY: Display current settings

Press "Display" to display or shut off relevant status information

(3) ZOOM: Press "ZOOM" to switch on/off the zoom function.

(4) SOURCE: Press "SOURCE" to select SDI1、SDI2、HDMI、CVBS signal input

(5)~(8) User definable function keys

Press and hold F1/F2/F3/F4, it will display the current definitions of the 4 function keys.

(9) ENTER/VOL: Select and Apply

Under menu system, revolve "ENTER/VOL" to adjust settings and press to apply;

Out of menu system, revolve "ENTER/VOL" to adjust volume, and press "ENTER/VOL" to mute.

(10) BRIGHT: Revolve "BRIGHT" to adjust brightness value from 0~100. Default: 50.

(11) CONTRAST: Revolve "CONTRAST" to adjust contrast value from 0~100. Default: 50.

(12) SATURATION: Revolve "SATURATION" to adjust saturation value from 0~100. Default: 50.

(13) POWER: Power on/off

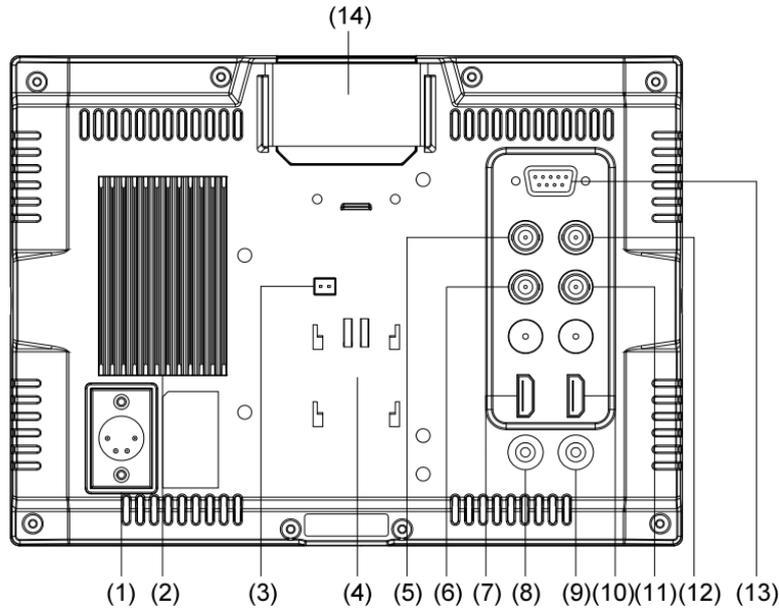
Connect with power cable, press the "POWER" to switch on the monitor. Press again to switch off.

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

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

(15) PHONE: 3.5mm earphone socket, for SDI/HDMI embedded audio and analog audio monitoring.

## Rear view



- (1) DC 12V IN: Connect with DC12V 4-pin XLR power adapter, support 6.5V-24V voltage input (Pin 1: Negative, Pin 4: Positive)
- (2) Heat sinks: under normal temperature, when the monitor is working, the temperature of the heat sinks may reach 55°C which is a normal phenomenon. Please do not touch the heat sinks.
- (3)、(4)Battery mount connector:  
Connect with SWIT S-7004 series quick release battery plate, and then mount corresponding V-mount or DV batteries. See details in “5.Optional Battery Plate”.
- (5) SDI-OUT: SDI loop through output (BNC connector)  
When SDI2 is displayed, the SDI-LOOP outputs the SDI-IN2 signal, and when SDI-IN1 or other input sources are displayed, the SDI-LOOP outputs the SDI-IN1 signal.
- (6) SDI-IN1: SDI input (BNC connector)
- (7) HDMI-OUT: HDMI loop through output (HDMI-A connector)
- (8) PHONE: 3.5mm headphone socket, for SDI/HDMI embedded audio and analog audio monitoring.
- (9) ADUIO-IN: 3.5mm analog audio input
- (10) HDMI-IN: HDMI input (HDMI-A connector)
- (11) SDI-IN2: SDI input (BNC connector)
- (12) CVBS-IN: CVBS input (BNC connector)
- (13) TALLY/GPI:TALLY and GPI control input. See details in “4.TALLY/GPI TALLY Operation”.
- (14) TALLY Light: Red, Green and Yellow 3-color TALLY indicator

### • 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)
SDI	SMPTE-425M 1080p (60 / 59.94 / 50)
	SMPTE-274M 1080i (60 / 59.94 / 50), 1080p (30 / 29.97 / 25 / 24 / 23.98)
	SMPTE-RP211 1080psf (30 / 29.97 / 25 / 24 / 23.98)
	SMPTE-296M 720p (60 / 59.94 / 50)
	SMPTE-125M 480i (59.94)
	ITU-R BT.656 576i (50)

### 3. Menu Operation

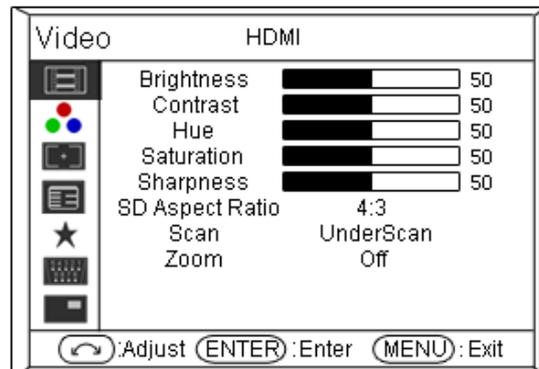
- (1) Press "MENU" and it will display menu system
- (2) Revolve "ENTER" to select an item. The selected item will be highlighted display.
- (3) Press "ENTER" to enter the selected item.
- (4) Under menu system, press "MENU" to back to previous menu.

\*The menu will automatically save and quit if it remains idle.

#### 3.1 VIDEO submenu

The PICTURE submenu includes:

- (1) **CONTRAST:** 0-100 value adjustment
- (2) **BRIGHTNESS:** 0-100 value adjustment
- (3) **HUE:** 0-100 value adjustment
- (4) **SATURATION:** 0-100 value adjustment
- (5) **SHARPNESS:** 0-100 value adjustment
- (6) SD Aspect Ratio: under SD-SDI input, the aspect ratio can be set to 4:3 or 16:9; under HD-SDI, it is not available to adjust.
- (7) **SCAN:** "UNDERSCAN" / "OVERSCAN" / "Full Screen" / "Pixel-to-pixel" / "SD 2X Display" selection.
- (8) **ZOOM:** Turn on the zoom function to enlarge the video by 150% from the center in real time.

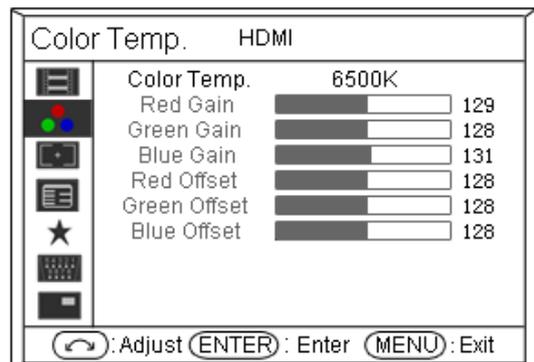


#### 3.2 Color temp submenu

The Color temp submenu includes:

- (1) Color temp: 5600K, 6500K, 9300K, USER1, USER2, USER3
- (2) Red GAIN: 0~255 value adjustment
- (3) Green GAIN: 0~255 value adjustment
- (4) Blue GAIN: 0~255 value adjustment
- (5) Red Offset: 0~255 value adjustment
- (6) Green Offset: 0~255 value adjustment
- (7) Blue Offset: 0~255 value adjustment

\* Remark: RGB GAIN and RGB Offset settings are only available when "Color temp" is set as USER1/2/3

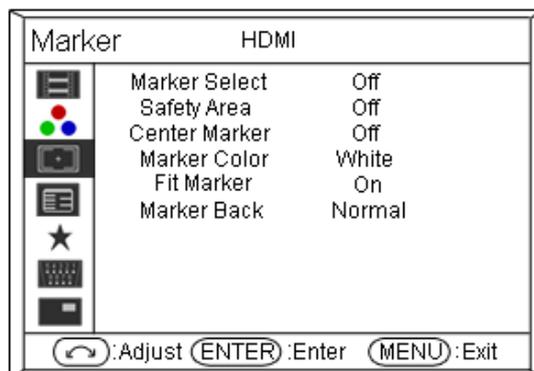


#### 3.3 Marker submenu

The Marker submenu includes:

- (1) Marker Select: Select the scale marker from 4:3, 13:9, 14:9, 15:9, 1.85:1, 2.35:1 and 16:9
- (2) Safe Area: Select the safe area scale from 80%, 85%, 90%, 93% and 95%.
- (3) Center Marker: ON/OFF  
Turn on/off the center cross marker on the screen.
- (4) Marker Color: Select the color of markers from WHITE, RED, GREEN, BLUE, BLACK and GRAY.
- (5) Fit Marker: On/Off

When switched off, the size of the safe area is 80%~95% of the actual screen display area; and when switched on, the size of the safe area is 80%~95% of the inside scale marker area.

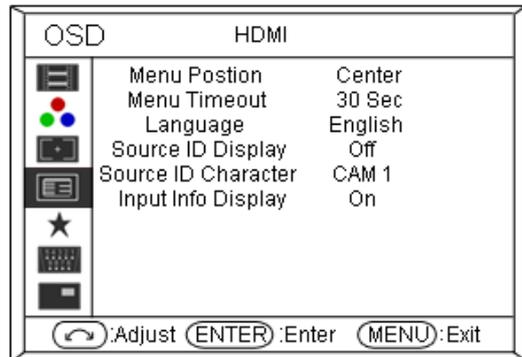


- (6) Marker Back: Normal, Semitransparent, Black  
 Normal: Normally display the outer area of scale marker  
 Semitransparent: half-tone display the outer area of scale marker  
 Black: Black display the outer area of scale marker

### 3.4 OSD submenu

The OSD submenu includes:

- (1) Menu Position: Center, right top, right bottom, left top, left bottom
- (2) Menu timeout: 0~60s  
 Set a time (in seconds) in which the menu will automatically quit if remains idle. Default: 30.
- (3) Language: Menu language selection
- (4) Source ID Display: On/Off
- (5) Source ID Character: CAM 1.



Revolve "ENTER" button to select the letters, and press "ENTER" to input. Max 10 letters are supported, the default is CAM1. There are 76 letters available, details are as below:

A~Z	a~z	0~9	!	&	'	(	)	*	+	,	-	.	/	:	?	□
-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---

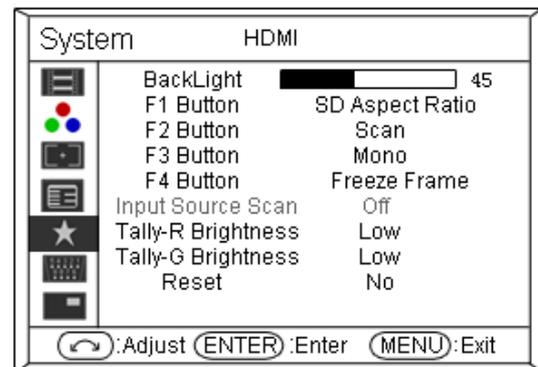
- (6) Input info Display: On/Off  
 On: turn on the OSD info display  
 Off: turn off the OSD info display

### 3.5 System submenu

The system submenu includes:

- (1) Backlight: 0~100 value adjustment
- (2)~(5) F1~F4 Button: define Function Key F1, F2, F3 and F4, function includes:

SD Aspect Ratio	Zebra
Scan	B/R/G Only
Zoom	Time Code
Mono	CVBS
Freeze Frame	HDMI
Button Lock	SDI1
PIP	SDI2
Focus Assist	Undefined
Audio Bar	



- (6) Input Source Scan: On/Off  
 Switch on: when turn on the monitor, it will scan the signal input with the sequence: SDI1→SDI2→HDMI→CVBS until the first recognized input and automatically display.
- (7) Tally R Brightness: Low, Medium, High
- (8) Tally G Brightness: Low, Medium, High
- (9) Reset: Yes/No  
 Select "YES" to recover all to factory settings except Language setting.

### 3.6 GPI submenu

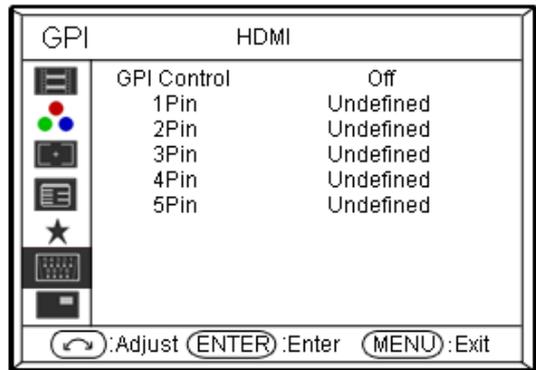
The “GPI” submenu includes:

- (1) GPI control: on/off

On: User can control the monitor through GPI control unit

Off: User cannot control the monitor through GPI control unit

- (2) Terminal1~5: define each GPI terminal function, see details in “4.TALLY/GPI Operation”



### 3.7 PIP submenu

The “PIP” submenu includes:

- (1) Sub window size:

Off, Large, Small

- (2) Sub window position:

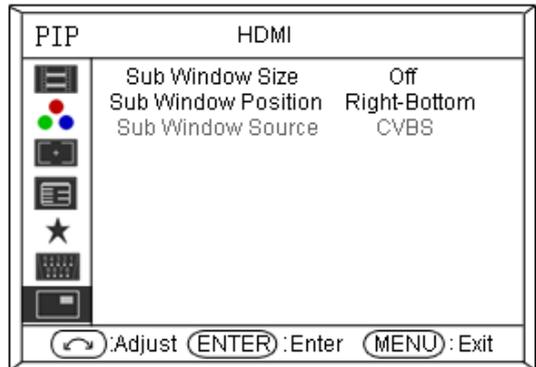
Right-Bottom, Right-Top, Left-Bottom, Left-Top

- (3) Sub window source

When the input signal is SDI1/SDI2/HDMI, the PIP window signal can only be CVBS;

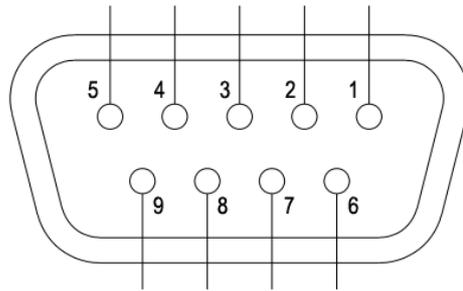
When the input signal is CVBS,

the PIP window signal can be selected from SDI1/SDI2/HDMI.



## 4.TALLY/GPI Operation

The GPI interface is the DB9 port, the DB9 terminals definition are as below:



DB9	1	2	3	4	5	6	7	8	9
GPI	GPI_1	GPI_2	GPI_3	GPI_4	GPI_5	VCC_OUT			GND

User can define each GPI terminal function in the “menu”. It will be on when GPI terminal connected to GND, and off when disconnected.

Terminal 1~5: the functions can be set as below:

Undefined	Freeze Frame
Tally R	Button lock
Tally G	PIP
Tally Y	Focus assist
SD Aspect Ratio	Audio bar
Scan	Zebra
Zoom	B/R/G Only
Mono	Timecode

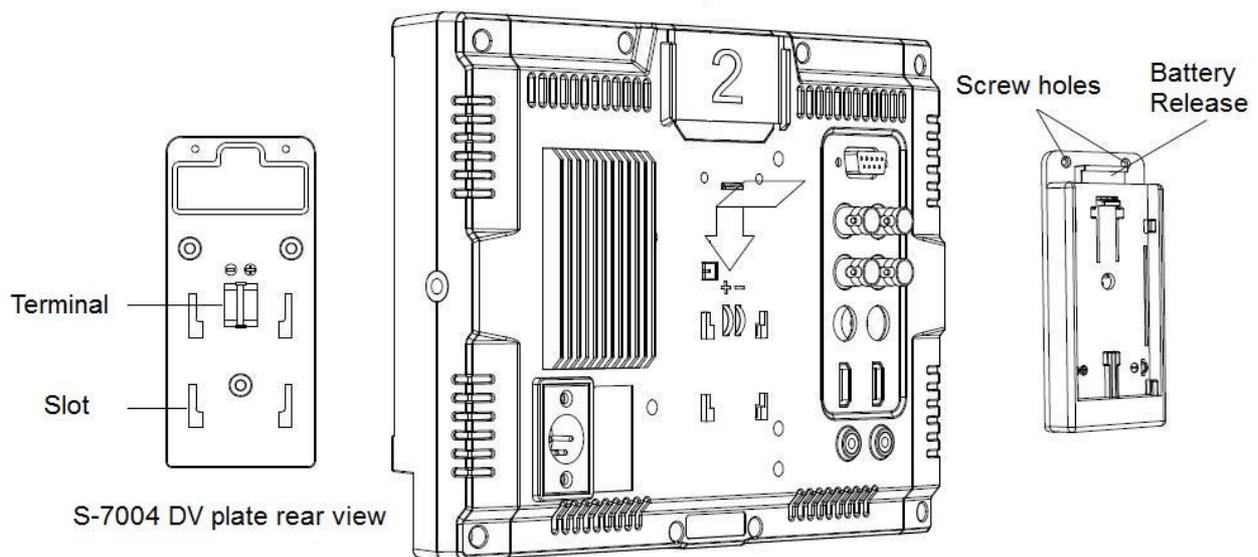
## 5. Optional Battery Plate

### 5.1 Battery Mount choice

S-1092H monitor can use V-mount, Gold mount and various DV batteries by connecting with SWIT S-7004 series battery plates. 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-8U63
S-7004E	Canon DSLR, LP-E6	S-8PE6
S-7004B	Panasonic VW-VBG6	S-8BG6
S-7004V	JVC BN-VF823	S-8823
S-7004I	JVC SSL-JVC50	S-8I50
S-7004S	SONY V-mount batteries	S-8080S, S-8110S, S-8160S.etc
S-7004A	Anton Bauer Gold mount batteries	S-8080A, S-8110A, S-8160A.etc

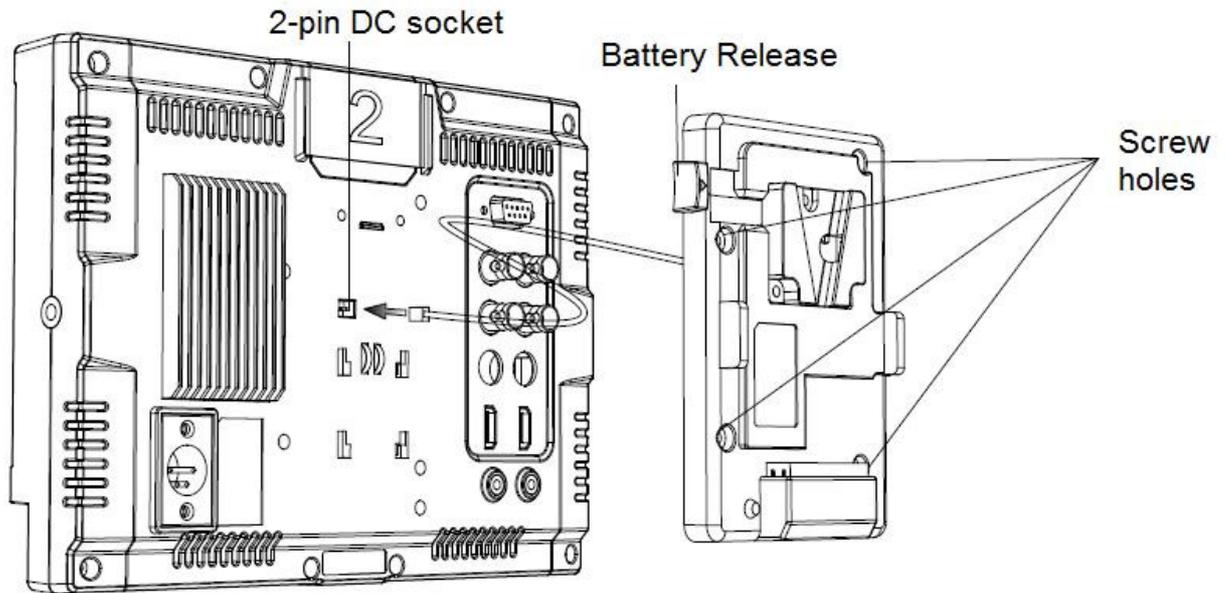
### 5.2 Installation of S-7004F/P/J/C/U/E/B/V/I snap-on type DV battery plate



S-7004F/P/J/C/U/E/B/V/I DV plate is snap-on type, quick release and interchangeable. Please follow the instructions to install:

- (1) Please make sure the power terminals are clean and in well condition before use.
- (2) Align the S-7004 DV plates slots to the bolts of the monitor rear panel, and press tightly in.
- (4) Fix the S-7004 DV plates by provided screws on the top side.
- (5) Mount the corresponding battery to S-7004 DV plate to power the monitor.
- (6) To release the battery, press the battery release button to take out the battery

### 5.3 Installation of S-7004A/S Gold mount / V-mount battery plate



To use Gold mount or V-mount battery, please install the S-7004A/S plate as following instructions:

- (1) Please make sure the power terminals are clean and in well condition before use.
- (2) Connect the wire of S-7004A/S to the 2-pin DC socket.
- (3) Align the S-7004A/S screw holes to the bolts of the monitor rear panel.  
(S-7004A Gold mount plate need a spare bedding between the monitor and plate)
- (4) Fix the S-7004A/S mount by provided screws.
- (5) Mount Gold mount / V-mount battery to S-7004A/S to power the monitor.
- (6) Press the battery release to take down the battery

## 6.Specification

<b>LCD Performance</b>		
Size	9 inches	
Display area	192 mm×120 mm	
Resolution	1920×1200	
Aspect ratio	16:9 / 4:3	
Brightness	450cd/m <sup>2</sup>	
Contrast	800:1	
Viewing angle	Horizontal: 170° Vertical: 170°	
<b>Input and Output</b>		
Input	BNC ×2	3G/HD/SD-SDI input ×2
	BNC ×1	CVBS input
	HDMI ×1	HDMI input
	3.5mm ×1	Analog audio input
Output	BNC ×1	3G/HD/SD-SDI loop through output
	HDMI ×1	HDMI loop through output
	3.5mm ×1	SDI/HDMI/analog audio output
<b>Video Format</b>		
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)	
SDI	SMPTE-425M	1080p (60 / 59.94 / 50)
	SMPTE-274M	1080i (60 / 59.94 / 50)
		1080p (30 / 29.97 / 25 / 24 / 23.98)
	SMPTE-RP211	1080psf (30 / 29.97 / 25 / 24 / 23.98)
	SMPTE-296M	720p (60 / 59.94 / 50)
	SMPTE-125M	480i (59.94)
ITU-R BT.656	576i (50)	
<b>General</b>		
Input voltage	DC 6.5V-24V	
Power consumption	≤18W	
Working temperature	0℃～+40℃	
Working humidity	10%～90%	
Storage temperature	-15℃～+60℃	
Storage humidity	10%～90%	
Dimensions	241×178×52mm	
Net weight (main body)	1.1kg	

## 7. Packing List

<b>Simple Package</b>	<b>Luxury Package</b>
1. Monitor	1. Monitor
2. User Manual	2. User Manual
3. Warranty card	3. Warranty card
4. Sun hood	4. Sun hood
5. Cold shoe / Screw arm trestle	5. Cold shoe / Screw arm trestle
6. Power adaptor + Power cable	6. Power adaptor + Power cable
	7. U shape desktop stand
	8. D-tap to 4-pin XLR cable
	9. Carrying case



**SWIT<sup>®</sup>**