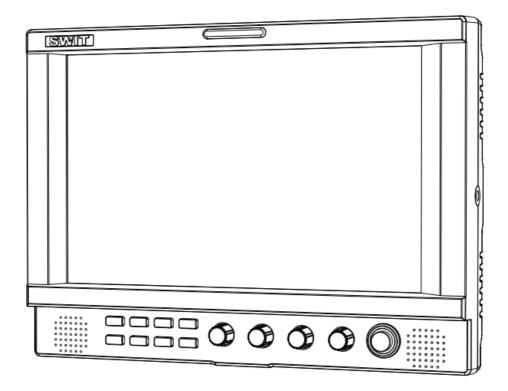


Model: S-1093F

9" Full HD Broadcast LCD Monitor



# **User Manual**

Ver: V1.0.0V00

Please read this User Manual throughout before using.

## **Preface**

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   Reproduction in whole or in part without written permission is prohibited.
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- 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.
  - \* Any sales personnel have no rights to provide additional warranty.
- 5. For any suggestions and requirements on this product, please contact us through phone, fax, Email, etc.

## SWIT Electronics Co., Ltd.

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Fax: +86-25-85805296
Email: contact@swit.cc
Website: http://www.swit.cc

## **Maintenance**

## Warning

- 1. In order to reduce the risk of fire and electrical shock, do not lay this product in rain or damp places.
- 2. Please keep away from the strong magnetic field; it may cause the noise of the video and audio signals.

## The power

- 1. Please use the power adapter provided or recommended by the manufacturer in order to avoid damage.
- 2. For a third party power adapter, please make sure the voltage range, supplied power, and polarity of power lead are fit.
- 3. Please disconnect the power cable under the following situations:
- (A). If you do not operate this monitor for a period of time;
- (B). If the power cable or power adaptor is damaged;
- (C). If the monitor housing is broken.

## The monitor

- 1. Please don't touch the screen with your fingers, which would probably deface the screen.
- 2. Please don't press the screen; the LCD is extremely exquisite and flimsy.
- 3. Please don't lay this product on unstable place.

# 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.

## Contents

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# Packing list

## Standard Package:

- 1. Sun hood
- 2. Cold shoe / Screw arm trestle
- 3. Power adaptor
- 4. Battery plate (V-mount, Gold mount or DV battery plate for option)

## Optional Purchase:

- 1. U shape desktop stand
- 2. D-tap to 4-pin XLR cable
- 3. Carrying case

# Introduction

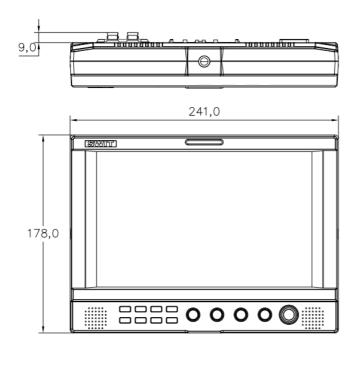
S-1093F adopts IPS LCD panel, with resolution 1920×1200 and wide viewing angle H170 $^{\circ}$ V170 $^{\circ}$ . It supports 2 x 3GSDI, 1 x HDMI, 1 x CVBS and 1 x analog audio input. It also supports 2 x 3GSDI (Level A/B), 1 x HDMI, 1 x CVBS and 1 x analog audio loop through output.

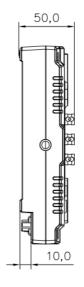
## Features:

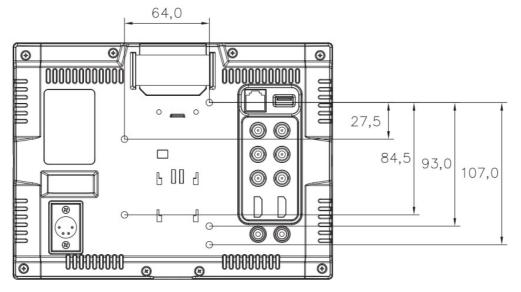
- Support multiple Aspect Ratio and scan modes
- Support multiple Marker selection (Marker, Safety Area)
- Powerful audio and video analysis functions
- Support multiple functions user-defined (Source ID, function keys, GPI)
- Multiple power supply methods to meet different requirements
- TSL UMD (RS485) Tally, GPI control
- USB firmware upgrade

# **Installation Dimension**

The main body (in mm)

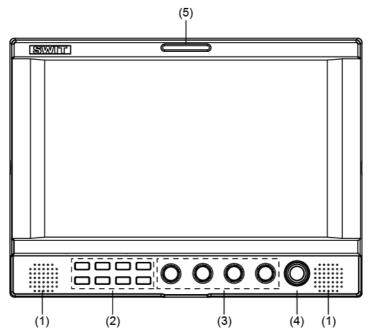




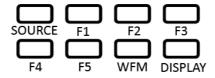


# **Operation Instructions**

## ·Front Panel



- Speaker: For SDI/HDMI embedded audio and analog audio monitoring.
   (Will not work if earphone is plugged in)
- (2) Button



SOURCE: Press "SOURCE" to select SDI1, SDI2, HDMI, and CVBS signal input

F1~F5: User definable function keys. Please see details in "4. Function key" under "Main Menu".

WFM: Waveform shortcut key, press "WFM" to quickly turn on or turn off the waveform. Please setup parameters of waveform under "WFM" submenu.

DISPLAY: Press "DISPLAY" to turn on or turn off relevant status information, audio and video waveform.

#### (3) Rotary Knob



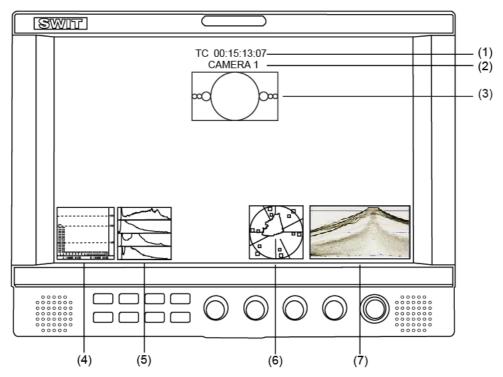
MENU/ENTER: When the menu is inactivated, presses "MENU/ENTE" to turn on the main menu; Revolve "MENU/ENTER" to adjust settings or parameters, and press to apply; When the menu is inactivated, revolve "MENU/ENTER" to adjust sound volume.

BRIGHT: 0-100 value adjustment and the default value is 50

CONTRAST: 0-100 value adjustment and the default value is 50 SATURATION: 0-100 value adjustment and the default value is 50

- (4) POWER: Power on/off
- (5) TALLY Light: Red, Green and Yellow 3-color TALLY indicator

## ·OSD



#### (1) Timecode (SDI)

Under SDI input, it can display Timecode. If no Timecode information is detected, it will be displayed as "TC: UNLOCKED".

User can set function keys F1∼F5 or GPI pins as "Timecode" to turn on or off this function.

#### (2) **UMD**

Set up the UMD under 'UMD" submenu.

#### (3) AFD (SDI)

User can set function keys F1∼F5 or GPI pins as "AFD" to turn on or off this function. If no relevant information is detected, it will be displayed as "AFD: UNLOCKED".

#### (4) Audio

Monitor the audio information. The relevant parameters like position, audio channels and blending, etc can be changed under "Audio" submenu.

User can set function Keys F1∼F5 or GPI pins as "Audio" to turn on or off this function.

## (5) Histogram

User can set function Keys F1∼F5 or GPI pins as "Histogram" to turn on or off this function.

#### (6) Vector

The relevant parameters like Vector position, Vector color and Vector blending, etc. can be changed under "Vector" submenu.

User can set function Keys F1∼F5 or GPI pins as "Vector" to turn on or off this function.

#### (7) Waveform

Press "WFM" on the front panel to turn on/of this function. The relevant parameters like WFM position, WFM color and WFM blending, etc can be changed under "Waveform" submenu.

## Introduction of audio and video functions

#### ♦ 16-ch embedded audio meters

Under 3G/HD/SD SDI, it displays 16 channels embedded audio meters. Under HDMI, it displays 8 channels embedded audio meters. The audio meter is green, and will turn yellow when audio exceeds -20dB, and turn red when audio exceeds -9dB.

#### ◆ Audio alarm

If the embedded audio value is too low or no embedded audio, it will display "MUTE" or "UNLOCKED" in the audio bar.

#### ◆ Timecode (SDI)

Under SDI input, it can display the SMPTE timecode (VITC1, VITC2 or LTC) on the top of the screen, which is used extensively for synchronization, and for logging and identifying material in recorded media. If no Timecode information is detected, it will be displayed as "UNLOCKED".

#### ♦ Waveform (Y, Cb, Cr, R, G, B)

Under SDI and HDMI input, totally 6 kinds of waveforms which are Y, Cb, Cr, R, G and B can be selected so as to check the brightness and chroma distribution.

#### Vector

The displayed vector scope pattern is available under both SDI and HDMI, represents saturation as distance from the center of the circle, and hue as the angle, in standard position, around it.

## ♦ Histogram (R, G, B)

The histogram is a bar graph that shows the distribution of luminance values in the picture. There're R, G, B histograms that individually displayed simultaneously, available under both SDI and HDMI.

#### ♦ Internal Color Bar

Under SDI and HDMI input, it has 100% internal color bar which helps to analyze the monitor color and adjust the display parameter.

User can set function Keys F1∼F5 or GPI pins as "color bar" to turn on or off this function.

#### 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 under SDI and HDMI input, for users to check if the subjects are focused.

User can set function Keys F1∼F5 or GPI pins as "Focus Assist" to turn on or off this function.

#### ◆ 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%.

User can set function Keys F1∼F5 or GPI pins as "Zebra" to turn on or off this function.

#### **♦** Freeze Frame

The freeze frame is to capture and display the current broadcast frame.

User can set function Keys F1∼F5 or GPI pins as "Freeze Frame" to turn on or off this function.

#### ◆ R/G/B/Mono

R/G/B/Mono is to display only the blue/red/green primary signal or the luminance signal only so as to monitor the image noise.

User can set function Keys F1∼F5 or GPI pins as "R/G/B/Mono" to turn on or off this function.

#### **♦** False Color

The false color is used to aid in the setting of camera exposure. Under false color mode, there's a color chart on the bottom of screen for reference. The color from the dark to the bright will be displayed as blue, cyan, green, yellow, orange and red in a consecutive way. User can set function Keys  $F1 \sim F5$  or GPI pins as "False color" to turn on or off this function.

#### AFD (SDI)

It is the abbreviation of active format description. AFD is to display the SDI embedded AFD information graphically on the screen.

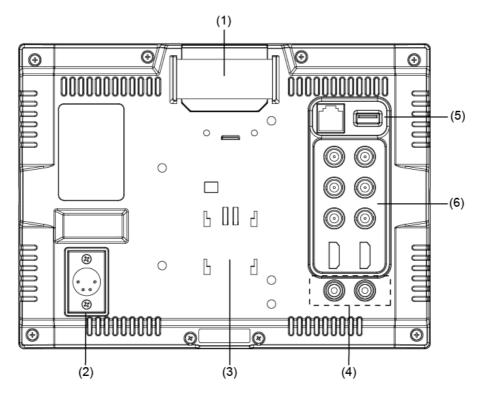
## ♦ H/V Delay (SDI)

Under SDI input, H/V Delay can be used to display line/field blanking signal, and to observe the horizontal and vertical synchronous signal.

#### ◆ UMD

When using external control unit, it can display the video source ID and tally information on the screen.

## ·Back Panel



- (1) TALLY Light: Red, Green and Yellow 3-color TALLY indicator.
- <sup>(2)</sup> DC 12V IN: Connect with DC12V 4-pin XLR power adapter, support 6.5V-24V voltage input (Pin 1: Negative, Pin 4: Positive)
- 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 "Optional Battery Plate".

(4) Audio Socket

AUDIO IN: 3.5mm analog audio input (CVBS)

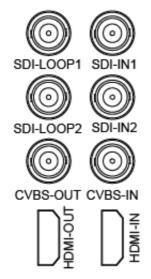
AUDIO OUT: 3.5mm audio output, to monitor SDI embedded audio, HDMI and analog audio output

(5) Multi-function Socket

GPI: TSL UMD&GPI control socket

**USB Socket** 

6) Video Signal Interface



SDI-IN1: SDI input (BNC connector)

SDI-LOOP1: SDI loop through output from SDI-IN1 (BNC connector)

SDI-IN2: SDI input (BNC connector)

SDI-LOOP2: SDI loop through output from SDI-IN2 (BNC connector)

CVBS-IN: CVBS input (BNC connector)

CVBS-OUT: CVBS output (BNC connector)

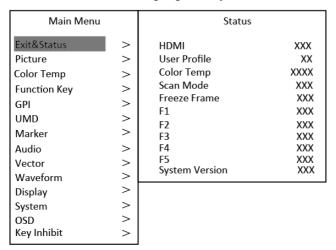
HDMI-IN: HDMI input (HDMI-A connector)

HDMI-OUT: HDMI loop through output (HDMI-A connector)

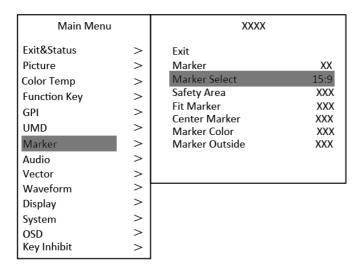
## Main Menu

S-1093F has OSD to adjust the parameters and settings, for example: Picture, color temp., function keys, etc.

1. Press "MENU/ENTER" button, the main menu will popup from the left top of the screen. The selected main menu highlights in yellow.



- 2. Revolve "MENU/ENTER" to select submenu, the selected submenu highlights in yellow, press "MENU/ENTER" to apply and enter into the selected submenu's items.
- 3. Revolve "MENU/ENTER" to select the item which needed to adjust, press "MENU/ENTER", the selected item and its parameters will be highlighted in yellow.



- 4. Revolve "MENU/ENTER" to change the selected item's parameter, press "MENU/ENTER" to apply and save the settings.
- 5. Revolve "MENU/ENTER" to select "Exit", press "MENU/ENTER" to quit submenu. Select "Exit & Status" under the Main Menu and press to quit Main Menu.

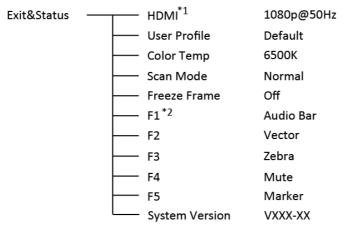
#### Notice:

- \* The items in gray cannot be set up.
- \* If there is no operation under the set time, the menu will automatically save settings and quit.
- \* If the key inhabit function is turned on, except key inhibit function, all other items are in grey. Please turn off the key inhibit function to adjust the items.

## Sub-Menu (the default values are marked with underline)

## 1. Exit & Status

Displays the current status, the details are as down below:



<sup>\*1</sup> Display the current video signal and format

## 2. Picture

To adjust picture parameters



## 3. Color Temp

To select different color temperature or setup user-defined color parameters.

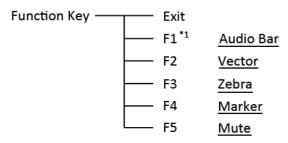


<sup>\*</sup> Only "Color Temp" is set to "User", the Red/Blue/Green Gain or Red/Blue/Green Bias can be adjusted.

<sup>\*2</sup> Display the current function keys setup

## 4. Function key

To define the F1~F5 function keys.

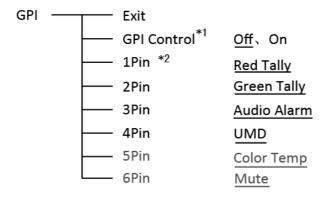


<sup>\*1</sup> Function keys F1-F5 can be set as the down below functions:

Audio Bar, Histogram, False Color, AFD, H/V Delay, R/G/B/Mono, Marker, Color Bar, UMD, Audio Alarm, Focus Assist, Aspect Ratio, Scan Mode, Zoom Mode, Mute, Freeze Frame, CVBS, HDMI, SDI1, SDI2, Color Temp, Time Code, Zebra, Vector.

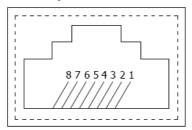
#### 5. GPI

User can set GPI pins to relevant functions to turn on or off this function.



<sup>\*1</sup> When "GPI control" is set to "On", the monitor can be operated through external GPI control unit.

Red Tally, Green Tally, Yellow Tally, Aspect Ratio, Scan Mode, Zoom Mode, Mute, Freeze Frame, Color Temp, Time Code, Zebra, Vector, Audio Bar, Histogram, False Color, AFD, H/V Delay, R/G/B/Mono, Marker, Color Bar, UMD, Audio Alarm, Focus Assist.



| Pin | 1     | 2     | 3    | 4     |
|-----|-------|-------|------|-------|
| GPI | GPI_1 | GPI_2 | RXD+ | GPI_3 |
| Pin | 5     | 6     | 7    | 8     |
| GPI | GPI_4 | RXD-  | NC   | GND   |

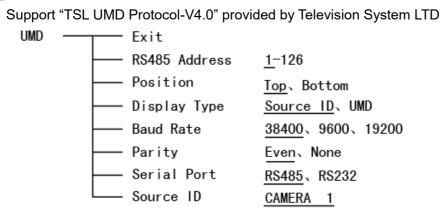
When connecting the GPI pin with ground, the setted function will be turned on, and goes out when disconnecting.

Example 1: Under "GPI" submenu, set "GPI control" to "On", set "2 Pin" to "Red Tally", when the pin 2 of the extenal GPI control unit is connected with ground, the Tally light on the front panel will turn red. When disconnected, the tally light will turn off.

Example 2: Under "GPI" submenu, set "GPI control" to "On", set "6 Pin" to "Scan Mode", when the pin 6 of the extenal GPI control unit is connected with ground, the Scan mode will change and follow the sequence: "Normal" → "Overscan" → "Native".

<sup>\*2</sup> The GPI pins can be set to the down below functions:

#### 6. UMD



### Source ID Setup:

Select "Source ID", revolve "MENU/ENTER" to select the letters and press "MENU/ENTER" to input. Max 8 letters are supported. Select "Exit" to quit and save settings, the source ID will be displayed on top or bottom of the screen.

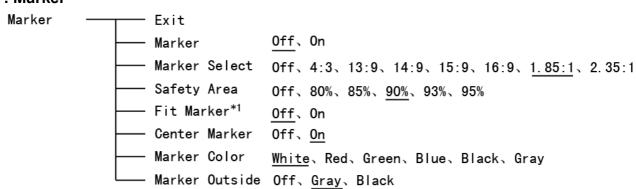
#### UMD setup:

- (1) Connect the external control equipment;
- (2) Set "Display Type" to "UMD";
- (3) Set "address", "Baud Rate" and "Parity"
- (4) Adjust the external control equipment and send UMD command, the monitor will display as:

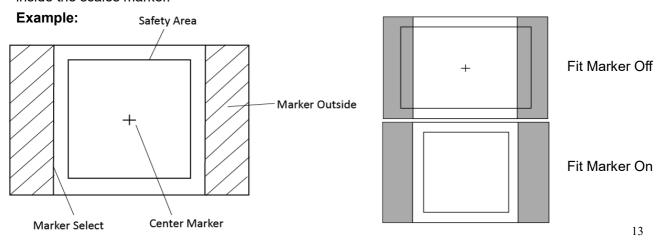
User can set the character and color of the UMD and the color of Tally1 and Tally2.

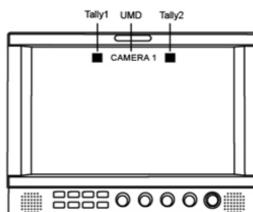
Please see "5. GPI" to check the "RS485 pin sequence and definition:

#### 7. Marker

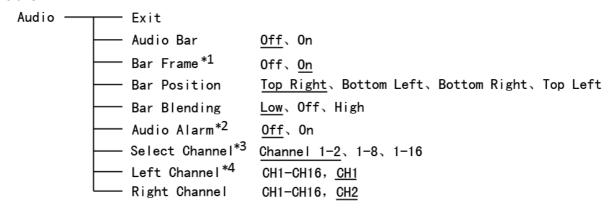


\*1 When "Fit Marker" is "Off", the size of safety area is benchmarked against the actual display screen, accounting for  $80\% \sim 95\%$  of actual display screen. When "Fit Marker" is "On", the size of safety area is benchmarked against the area inside the scales marker, accounting for  $80\% \sim 95\%$  of the area inside the scales marker.





#### 8. Audio



- \*1 When "Bar Frame" is set to "Off", only the audio meter will be displayed. When "Bar Frame" is set to "On", frame and real-time audio value will be displayed.
- \*2 When "Audio Alarm" is set to "On", if no embedded audio is detected, the audio bar will display "UNLOCKED". If the audio value is too low, the audio bar will display "MUTE".

#### \*3 Select Channel

Under analog signal, only channel 1-2 can be displayed.

Under HDMI signal, channel1-2 and 1-8 can be selected.

Under SDI signal, channel 1-2, 1-8 and 1-16 can be selected.

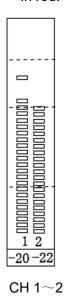
\*4 Audio channels can be selected to output according to the requirements.

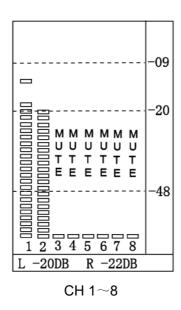
When the current "Select Channel" is set to "Channel1-2", the left channel and right channel output can be selected from Channel1 or channel2.

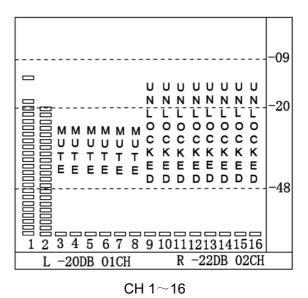
When the current "Select Channel" is set to "Channel1-8", the left channel and right channel output can be selected from Channel1 to channel8.

When the current "Select Channel" is set to "Channel1-16", the left channel and right channel output can be selected from Channel 1 to channel 16.

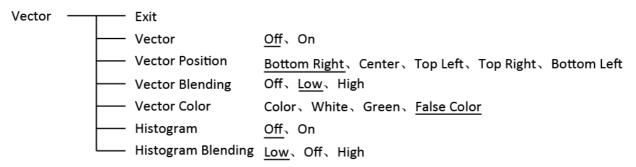
In audio bar, the left channel information will be in green, and the right channel information will be in red.



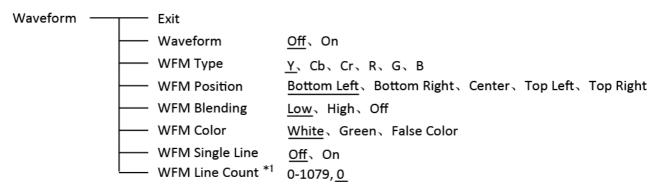




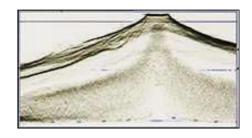
#### 9. Vector

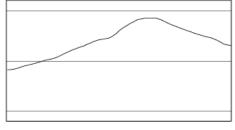


## 10. Waveform



\*1: Only the "WFM Single Line" is set to "ON", the "WFM Line Count" can be adjusted. "WFM Single Line" is to display the selected line waveform of "WFM Line Count"

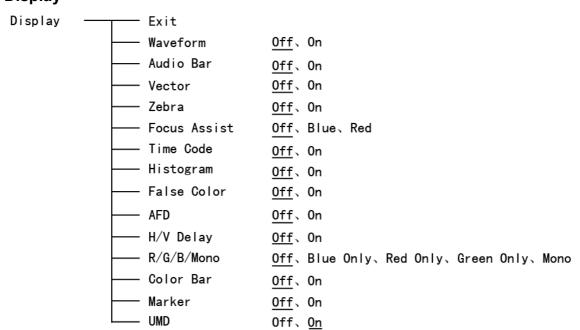




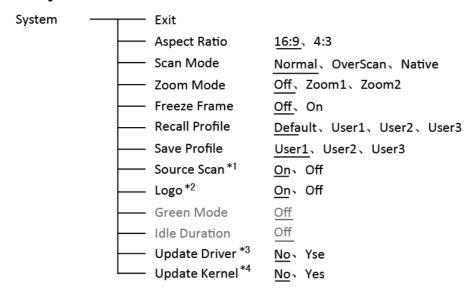
WFM Single Line: Off

WFM Single Line: On

## 11. Display



## 12. System



#### \*1 Source Scan

When set to "Yes", after turn on the monitor, the signal will be inspected and follow the sequence of "SDI1→SDI2→HDMI→CVBS".

For example: if channel is selected to SDI2, SDI-IN2 has no input, and CVBS has input. When turn on the monitor, after automatic inspection, SDI2 has no recognized signal, and CVBS has recognized signal, then the input signal will be CVBS.

When set to "No", update model will not be supported.

#### \*2 Logo

When powered on, the screen will display SWIT logo.

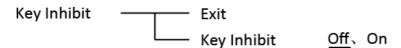
#### \*3、\*4 Update Driver/ Kernel

DT-X92F supports USB software upgrade. Insert the USB equipment with update software into the back panel USB socket. Set "Update Driver" and "Update Kernel" to "Yes" under "System" Submenu, press "MENU/ENTER" to apply. During the update procedure, please do not power off to make sure the software writing has been successfully completed.

## 13. OSD



## 14. Key Inhibit



If the "Key Inhibit" is "On", there is no response when all the buttons expert " MENU/ENTER" are pressed, the sreen will be displayed as " Key Inhibit".

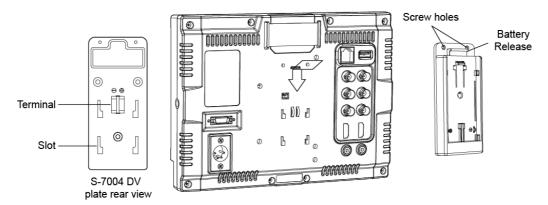
# **Optional Battery Plate**

## 1. Battery Mount choice

S-1093F 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-7004U | SONY BP-U series U60/30          | S-8U63, S-8U93                |
| S-7004D | Panasonic D54/D28 & VW-VBD58     | S-8D62, S-8D58                |
| S-7004B | Panasonic VW-VBG6                | S-8BG6                        |
| S-7004J | JVC BN-V428U                     | S-8428                        |
| S-7004V | JVC BN-VF823                     | S-8823                        |
| S-7004I | JVC SSL-JVC50                    | S-8I50                        |
| S-7004C | Canon BP series BP-930/945/970G  | S-8945, S-8845                |
| S-7004E | Canon DSLR, LP-E6                | S-8PE6                        |
| 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 |

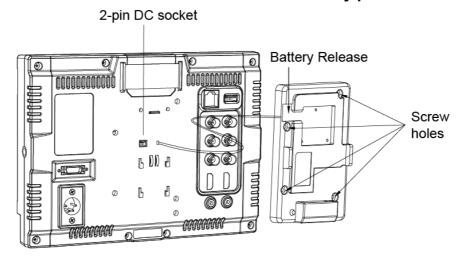
## 2. Installation of S-7004F/D/J/C/U/E/B/V/I snap-on type DV battery plate:



S-7004F/D/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.
- (3) Fix the S-7004 DV plates by provided screws on the top side.
- (4) Mount the corresponding battery to S-7004 DV plate to power the monitor.
- (5) To release the battery, press the battery release button to take out the battery

## 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

# **Specification**

| LCD Pe                    | rformance             |  |  |
|---------------------------|-----------------------|--|--|
| Size                      |                       | 9 inches   |  |
| Display area              |                       | 191.5×119.7 mm   |  |
| Resolution                |                       | 1920×RGB×1200  |  |
| Color                     |                       | 8 bit  |  |
| Aspect r                  | atio                  | 16:9/4:3   |  |
| Brightne                  | ess                   | 450 cd/m²  |  |
| Contras                   | t                     | 1000:1   |  |
| Viewing Angle             |                       | Horizontal: 170°Vertical: 170°                         |  |
| Input/o                   | utput                 |  |  |
|                           | BNC×2                 | 2K/3G/HD/SD-SDI ×2                                     |  |
|                           | BNC×1                 | CVBS input   |  |
|                           | HDMI×1                | HDMI input   |  |
| Input                     | GPI×1                 | UMD & GPI  |  |
|                           | USB×1                 |  |  |
|                           | 3.5mm×1               | analog audio input                                     |  |
|                           | BNC×2                 | 2K/3G/HD/SD-SDI loop through output ×2                 |  |
|                           | BNC×1                 | CVBS loop through output                               |  |
| Output                    | HDMI×1                | HDMI loop through output                               |  |
|                           | 3.5mm×1               | SDI/HDMI/analog audio output                           |  |
| Video F                   |                       | CDW IDWWalland Gadac Gadac                             |  |
| CVBS                      |                       | NTSC / PAL   |  |
| CVDO                      |                       | 480i / 576i / 480p / 576p                              |  |
|                           |                       | 1080i (60 / 59.94 / 50)                                |  |
| HDMI                      |                       | 720p (60 / 59.94 / 50)                                 |  |
| וואוטוו                   |                       | 1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98) |  |
|                           |                       | 1080psf (30 / 29.97 / 25 / 24 / 23.98)                 |  |
|                           | SMPTE ST 2048-1: 2011 | 2048×1080p(24 / 24sF / 23.98 / 23.98sF)                |  |
|                           | SMPTE-425M-A/B        | 1080p (60 / 59.94 / 50)                                |  |
|                           | GIVII TE-425IVI-74B   | 1080i (60 / 59.94 / 50)                                |  |
|                           | SMPTE-274M            | 1080p (30 / 29.97 / 25 / 24 / 23.98)                   |  |
| SDI                       | 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)  |  |
| Санана                    |                       | 3701 (30)  |  |
| Genera                    |                       | DC 0 51/ 241/  |  |
| Input voltage             |                       | DC 6.5V-24V  |  |
| Power consumption         |                       | Max 18W  |  |
| Working temperature       |                       | 0°C~+40°C  |  |
| Working humidity          |                       | 10%~90%  |  |
| Storage temperature       |                       | - 15℃~ + 60℃   |  |
| Storage humidity          |                       | 10%~90%  |  |
| Dimensi                   |                       | 241×178×50mm   |  |
| Net weight (main body) 96 |                       | 960g   |  |

# **Trouble-shooting**

| Symptom                    | Possible Causes  | Solution   |
|----------------------------|--|--|
|                            | The power is not turned on                                       | Please check if the power is connected, and then press "POWER" button to turn on the monitor |
|                            | Unstable power voltage   | Reconnect to power supply  |
| No display                 | BNC or HDMI cable loose<br>contact or not correctly<br>connected | Check and correctly connect the BNC or HDMI cable  |
|                            | The attached battery is no power                                 | Change battery   |
|                            | Using DIY power supply but the polarity is reversed              | Refer to the provided power supply, reconnect the power.                                     |
| Image or color<br>abnormal | Bad contact of BNC or HDMI cable                                 | Change cable   |
|                            | Video signal has Interference                                    | Remove the interference source(s)  |
|                            | Improper adjustment of the color parameters                      | Adjust the "Recall profile" to<br>"Default" under "System" submenu                           |
|                            | Distortion of the image  | Reset the Aspect ratio   |
|                            | Set to Red/Green/Blue only or Mono                               | Turn the Blue only/ Red Only/<br>Green Only/Mono off under<br>R/G/B/Mono submenu             |
|                            | Turn on the "Focus Assist" function                              | Turn off the "Focus Assist" function   |
|                            | Turn on the "False Color"<br>function                            | Turn off the "False Color" function  |
|                            | Set to Mute  | Turn off MUTE or revolve "MENU/ENTER" to adjust the volume                                   |
| No audio output            | Bad contact of signal cable                                      | Change signal cable  |
|                            | Wrong connection or bad contact of Audio cable                   | Connect to the correct input socket.   |

