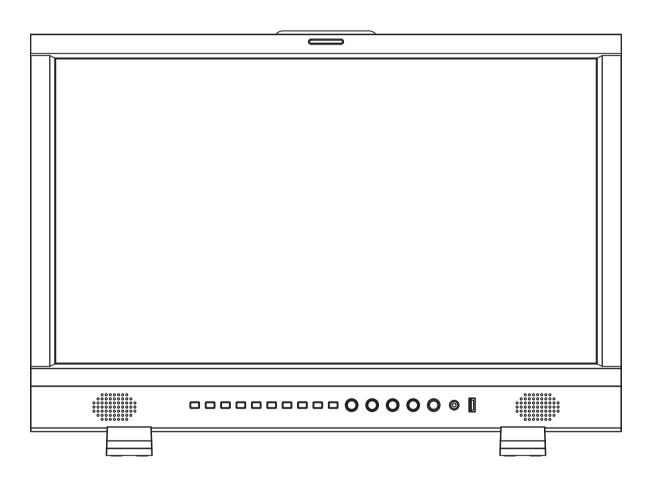


23.8" 4K Broadcast Studio LCD Monitor



User Manual

Please read this user manual throughout before using

Ver:A

Preface

- All internal technologies of this product are protected, including device, software and trademark. Reproduction in whole or in part without written permission is prohibited.
- 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.
- 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.
- 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.
- For any suggestions and requirements on this product, please contact us through phone, fax, Email, etc.

SWIT Electronics Co., Ltd.

Address: 10 Hengtong Road, Nanjing Economic and Technological Development Zone,

Nanjing 210038, P.R.China

Phone: +86-25-85805753

Fax: +86-25-85805296 Email: contact@swit.cc

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.

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Packing list

No.	standard package	details
1	monitor	×1
2	user manual	×1
3	warrantee card	×1
4	Battery plate (V-mount or Gold mount option)	×1
5	tabletop stand	×2
6	power cord	×1

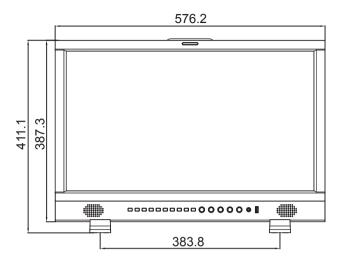
Introduction

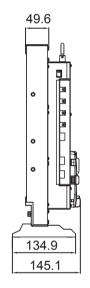
BM-U243 adopts TFT LCD panel, with resolution of 3840x2160 and 178° x 178° wide viewing angle. It supports $2 \times 12G/6G/3G/HD/SD-SDI$, $1 \times HDMI2.0$, and $2 \times 12G/6G/3G/HD/SD-SDI$, $2 \times 3G/HD/SD-SDI$ loop through, plus earphone and speaker out.

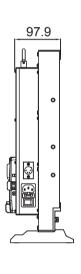
Features:

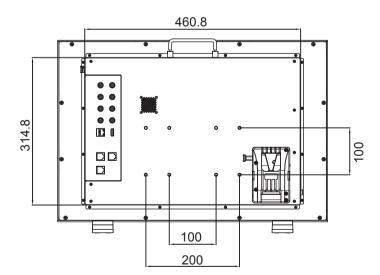
- 23.8inch UHD(3840x2160) panel
- 4K/UHD interface(2x12G-SDI&2x3G-SDI input, 4xSDI loop out, 1xHDMI 2.0 input)
- 16ch audio bar display, with any selected 2ch output
- Support waveform selection display(Y, Cb, Cr, R, G, B) and single line selection mode.
- Vector scope, R/G/B/Y histogram, bi-color focus assist
- 3D Lut(17x17x17) accurate color correction
- Dynamic UMD and TALLY(TSL3.1,4.0) display
- Markers
- Firmware upgrade and User Luts upload via USB
- Eco mode

Installation Dimension



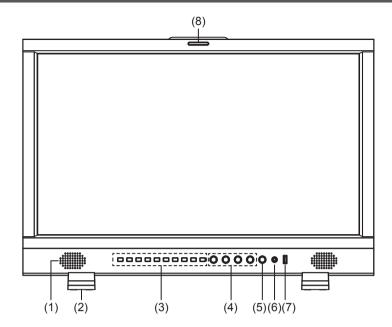






Operation Instructions

· Front Panel



- (1) Speaker: For SDI/HDMI embedded audio. (Will not work if earphone is plugged in)
- (2) Desktop Stand Feet
- (3) Illuminated Push Button



SDI1~SDI4: Press each button to switch to the corresponding input source.

4XSDI/QUAD: Switch between square division and 2SI mode.

HDMI: Press to select HDMI input.

F1~F3:User definable function keys; please see details in "6.Control" under "Main Menu".

Eg: when F1 is defined as "histogram", press F1 to turn on histogram, and press F1 twice to turn off it.

INFO: Press "INFO" to turn on or turn off relevant status, audio and video oscillograms.

Press "INFO" to release one key quit the menu when Menu is opened.

(4) Rotary Knob



MENU/VOLUME: When the menu is inactivated, press "MENU/VOLUME" to turn on the main menu.

Revolve "MENU/VOLUME" to adjust settings or parameters, and press to apply.

When the menu is inactivated, revolve "MENU/VOLUME" to adjust the sound volume.

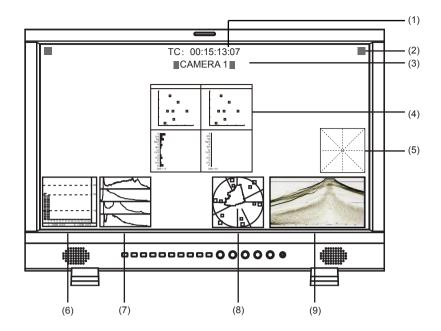
BRIGHT: -100-100 value adjustment and the default value is 0.

CONTRAST: -100-100 value adjustment and the default value is 0.

SATURATION: -100-100 value adjustment and the default value is 0.

- (5) POWER: Press to switch on or switch off the monitor.
- (6) PHONE jack: 3.5mm earphone socket, for SDI/HDMI embedded audio.
- (7) USB LUT: for firmware upgrading and upload 3DLUT cube files.
- (8) TALLY lamp: This lamp is controlled by the tally function of the Make contact terminal. (You can select the color of the tally lamp from "Green", "Red", or "Yellow").

· OSD



(1) Time Code (SDI)

Under SDI input, the monitor can display Time code information (LTC, VITC1&2). If no Time code info is detected, it will display "TC UNLOCKED".

User can set function keys F1∼F3 or GPI pins as "Time Code" to turn on or off this function.

(2) On screen TALLY

Display TALLY signal from GPI port.

(3) **UMD**

Display TSL 3.1/4.0 UMD or User input Source ID.

(4) Color Checker

Display color gamut chart and Delta chart for last calibrated value and current messured value.

(5) **Lissajous**

Display audio Lissajous pattern.

(6) Audio VU/PPM meters

Display meters of SDI/HDMI embedded audio or analog audio. The audio meter display channels, on screen positions, markers and background colors are adjustable.

User can set function Keys F1 \sim F3 or GPI pins as "Audio Bar" to turn on or off this function.

(7) **Histogram**

Parallel display R/G/B/Y histogram for SDI and HDMI video.

User can set function Keys F1~F3 or GPI pins as "Histogram" to turn on or off this function.

(8) Vector scope

Display vector scope with 100% and 75% markers for SDI and HDMI video. The vector scope pattern display positions, colors, background are adjustable.

User can set function Keys F1∼F3 or GPI pins as "Vector" to turn on or off this function.

(9) Waveform

Display waveform scopes for SDI and HDMI video with markers. The display waveform can be selected from Y/Cb/Cr/R/G/B types, and single line display mode selectable. The waveform display positions, colors, background are adjustable.

User can set function Keys F1 \sim F3 or GPI pins as "Waveform" to turn on or off this function.

Introduction of audio and video functions

16-ch embedded audio meters

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

• Time code (SDI)

Under SDI input, it can display the SMPTE time code (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 "TC 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.

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 $F1 \sim F3$ 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~F3 or GPI pins as "Zebra" 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~F3 or GPI pins as "False color" to turn on or off this function.

H/V Delay (SDI)

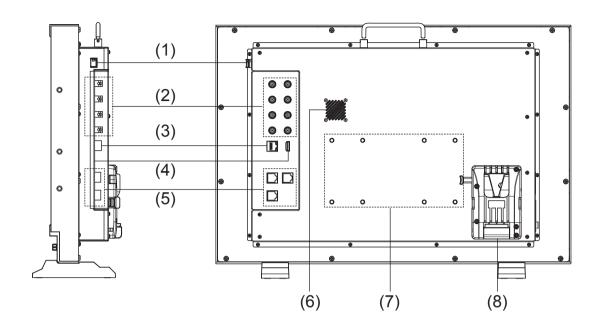
Under SDI input, H/V Delay can be used to display line/field blanking signal, and to observe the horizontal and vertical synchronous signal.

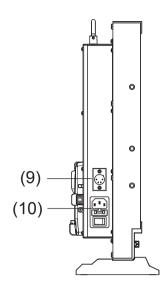
UMD

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

Odd/Even Frame

Display the current status of Odd/Even Frame: ON/OFF.(Will display gray and not available if the current input signal doesn't support Odd/Even mode)





(1) SFP port

Input terminal for 12G/6G/3G/HD/SD-SDI SFP optical fiber receiver adaptor.

- The SFP adaptor is optional purchased.
- (2) SDI IN&OUT:

12G-SDIx2 (IN&OUT)

3G-SDIx2 (IN&OUT)

(3) ETHERNET:

1000M high speed RJ45 ethernet port, for webserver IP external control.

- (4) HDMI 2.0 IN
 - Will not display HDCP protected contects.
- (5) External control port

RS-485 (IN, OUT): TSL UMD control port

GPI: GPI control port

- (6) Fans
- (7) VESA mount area
- (8) Battery plate

(9) DC IN: 12V~17V

(10) AC IN: 100V∼240V

Main menu

BM-U243 has OSD to adjust the parameters and settings, for example: Picture, scanning, Assist, etc.

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

Main Menu	Status	
Exit&Status Input Picture Color Management Scanning Control Assist De-embed Auto Calibration System	Format Channel Color Temp Scanning F1 F2 F3 Version	XXX XXX XXX XX XX XX XX

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

Main Menu	Assist		Menu Assist Vector		tor
Exit&Status	Exit		Exit		
Input	False Color	OFF	Vector	OFF	
Picture	Blue Only	OFF	Vector Position	Bottom Right	
Color Management	Focus Assist	OFF	Vector Blending	OFF	
Scanning	Zebra	OFF	Vector Color	Color	
Control	Color Checker	OFF			
Assist	Waveform	>			
De-embed	Vector	>			
Auto Calibration	Histogram	>			
System	Marker	>			

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

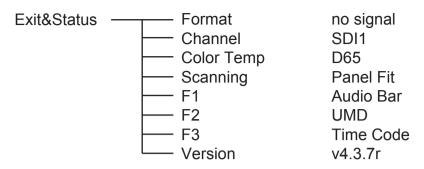
Notice:

- * The items in gray can not be set up.
- * If there is no operation under the setted 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.

Submenu introduction (the default values are marked with underline)

1. Exit & Status

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



Format: Input video format, If no video detected in current inputs source, it will display "No Signal".

Channel: Display the current channel.

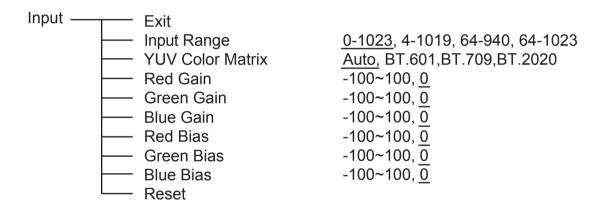
Color Temp: Display the current Color Temperature.

Scanning: Display the current scanning mode.

F1~F3: Display the current functions that assigned to F1~F3 function keys.

Version: Display the current firmware version.

2.Input



Exit: Return to Main Menu.

Input Range: Video Lumina Range setting. **YUV Color Matrix**: Choose color matrix.

Red Gain: Adjust the Red Gain. Green Gain: Adjust the Green Gain. Blue Gain: Adjust the Blue Gain. Red Bias: Adjust the Red Bias. Green Bias: Adjust the Green Bias. Blue Bias: Adjust the Blue Bias.

3.Picture

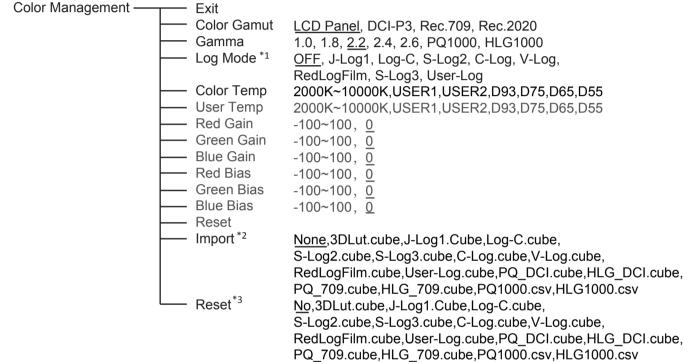
To adjust picture parameters.



Exit: Return to Main Menu.

Contrast: Adjust the contrast of the display.
Brightness: Adjust the brightness of the display.
Chroma: Adjust the saturation of the display.
Sharpness: Adjust the sharpness of the display.
Backlight: Adjust the backlight of the display.

4. Color Management



Exit: Return to Main Menu.

Color Gamut: Select the color gamut mode. **Gamma:** Select the Gamma correction value.

Log Mode: Camera Log conversion

When shooting with Log mode of the camera, you can select the corresponding Log conversion LUT, to convert the log mode video to standard ITU Rec.709 mode to monitor. A"User-Log" is provided for user defined LUT converting to Rec.709.

Color Temp: Select the color temperature mode.

User Temp: Select the color temperature mode of User Temp. (Adjustable when the color temperature is set to user mode)

Red Gain: Adjust the Red Gain under User Temp. Green Gain: Adjust the Green Gain under User Temp. Blue Gain: Adjust the Blue Gain under User Temp. Red Bias: Adjust the Red Bias under User Temp. Green Bias: Adjust the Green Bias unde User Temp. Blue Bias: Adjust the Blue Bias under User Temp.

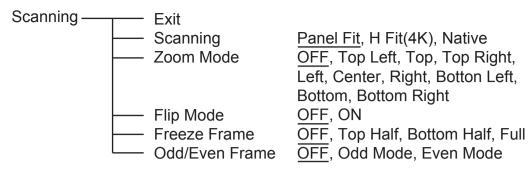
Import: Upload cube

Put the cube file in U-disk root directory, plug U-disk into USB port, select the cube file and upload it.

Reset: Reset to factory cubes

For any wrong cubes imported that caused wrong display colors, you can reset the cubes to factory cubes here.

5. Scanning



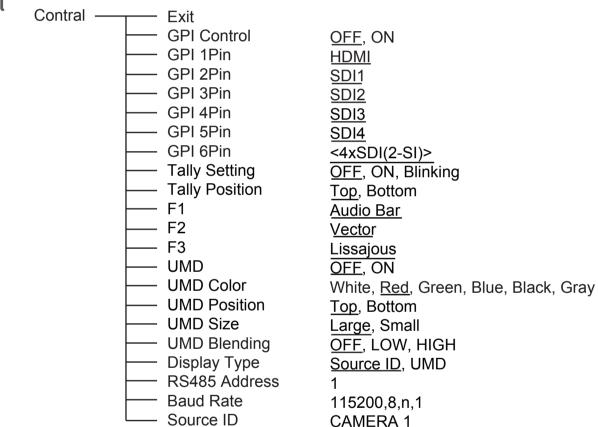
Exit: Return to Main Menu. **Scanning:** Scan mode setting.

Zoom Mode: Zoom in on the selected area.

Flip Mode: Flip mode setting.

Odd/Even Frame: Select Odd/Even Frame mode.

6. Control

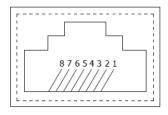


Exit: Return to Main Menu.

GPI Control: Enable GPI control.

GPI 1Pin~GPI 6Pin: Assign functions to the GPI terminals. The GPI pins can be setted to the down below functions:

SDI1, SDI2, SDI3, SDI4, 4×SDI(2-SI), 4×SDI(SQ), HDMI, Red Tally, Green Tally, Yellow Tally, Time Code, Freeze Frame, WFM Type, WFM Single Line, UMD, Marker, H/V Delay, Waveform, Audio Bar, Zebra, Vector, Low Latency Mode, Histogram, Lissajous, Focus Assist.



Pin	1	2	3	4
GPI	GPI_1	GPI_2	GPI_3	GPI_4
Pin	5	6	7	8
GPI	GPI_5	GPI_6	NC	GND

Tally: Turn the tally display on/off.

Tally Position: Tally display position setting.

F1~F3: Assign functions to the function keys F1 – F3 on the front key board. F1-F3 can be setted as the down below functions:

Time Code, Color Temp, Flip Mode, Native Mode, Waveform, UMD, Marker, H/V Delay, Blue Only, Audio Bar, Zebra, Vector, Low Latency mode, Histogram, Odd/Even Frame.

UMD: Turn the tally display on/off.

UMD Color: Color setting.

Position: Display position setting.

Size: Size setting.

UMD Blending: Adjust the UMD background transparency.

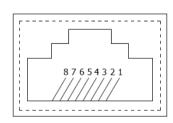
Display Type: Choose display type.

(1) Select "UMD" to display Source info and Tally info from external control devices of TSL protocol.

(2) Select "Source ID" to display a user input fixed source info, and Tally info by GPI input.

RS485 Address: Fixed value. **Baud Rate**: Fixed value.

Source ID: Setting of "Source ID". RS485 pin sequence and definition:



Pin	IN	OUT	
1	GND	GND	
2	NC	NC	
3	RXD-	RXD-	
4	NC	NC	
5	NC	NC	
6	RXD+	RXD+	
7	TXD-	TXD-	
8	TXD+	TXD+	

7.Assist



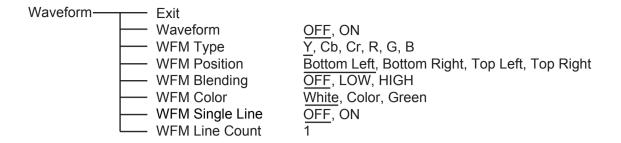
Exit: Return to Main Menu.

False Color: Turn on/off False color mode. **Blue Only:** Turn on/off Blue only mode.

Focus Assist: Turn on/off focus assist mode and select focus line color.

Zebra: Turn on/off zebra stripes for over exposure check.

Waveform:



Exit: Return to Assist submenu.

Waveform: Turn on/off waveform pattern.

WFM Type: Select WFM type.

WFM Position: WFM Position setting.

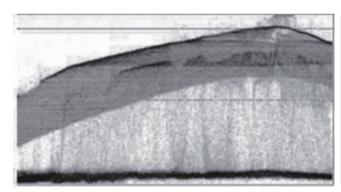
WFM Blending: Adjust the WFM pattern background transparency.

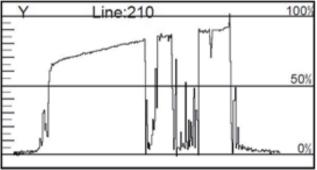
WFM Color: Waveform pattern color setting.

WFM Single Line: Turn on/o the Waveform single line mode. **WFM Line Count:** Select a line for the single line waveform.

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"

(Line number of single line relates to the signal format)





WFM Single Line: Off

WFM Single Line: On

Vector:

Vector Exit

Vector OFF, ON

Vector Position Bottom Left, Bottom Right, Top Left, Top Right

Vector Blending OFF, LOW, HIGH

Vector Color White, Color, Green

Exit: Return to Assist submenu.

Vector: Turn on/off the Vector scope pattern.

Vector Position: Vector scope pattern on screen display position setting. **Vector Blending**: Vector scope pattern background transparency selection

Vector Color: Vector scope pattern color setting.

Histogram:

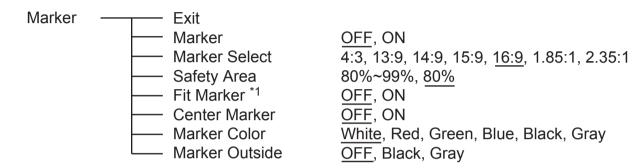
Histogram Exit
Histogram OFF, ON
Histogram Blending OFF, LOW, HIGH

Exit: Return to Assist submenu.

Histogram: Turn on/off the Histogram pattern.

Histogram Blending: Histogram pattern background transparency selection.

Marker:



Exit: Return to Assist submenu.

Marker: Turn the marker display on / off. **Marker Select**: Adjust the ratio of marker.

Safety Area: Safety area setting.

Fit Marker: Set safety area to fit marker ratio or not.

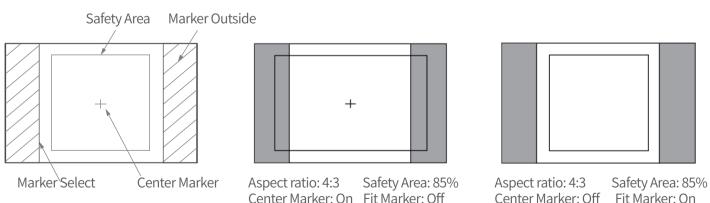
Turn off the Fit Marker, the safety area size percentage is based on screen size. Turn on the Fit Marker, the safety area size percentage is based on Marker ratio.

Center Marker: Turn the center cross mark on / off.

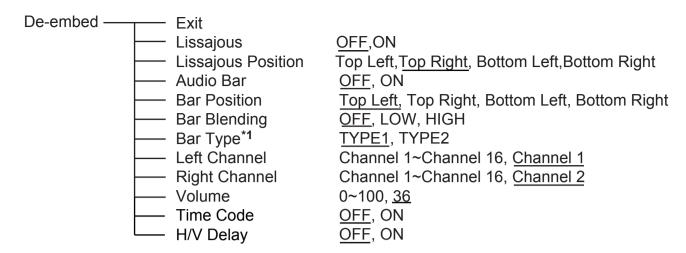
Marker Color: Marker color setting.

Marker Outside: Marker outside color setting.

Example:



8.De-embed



Exit: Return to Main Menu.

Lissajous: Turn on/turn off Lissajous.

Lissajous Positions: Change on screen display position of Lissajous.

Audio Bar: Turn on / turn off the audio bar display.

Bar Position: Change on screen display position of the audio bar. **Bar Blending:** Adjust the audio bar pattern background transparency.

Bar Type: Turn on / turn o the audio bar frame and marks.

Left Channel/ Right Channel: Select the audio left and right channel to be de-embed and

output via speaker or headphone.

Volume: volume setting.

Time Code: turn on/off Time code display. **H/V Delay:** turn on/off H/V delay display.

9. Auto Calibration

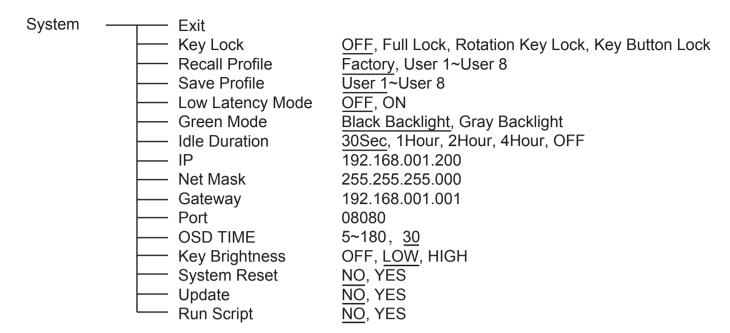


Exit: Return to main menu.

Probe Select: Select the probe for color correction. **Start Calibration:** Select "YES" to start color work.

Measure: The results of color correction were measured.

10. System



Exit: Return to Main Menu. **Key Lock:** key inhibit setting.

Recall Profile: Loading Factory settings and User presets Factory: Recover all settings to

factory setting User 1/2/3/4/5/6: Load the User settings 1/2/3/4/5/6.

Save Profile: Save current User settings

User 1/2/3: Save the current settings to User 1/2/3/4/5/6.

Low Latency Mode:

Green Mode: Display settings when in Energy Save mode.

To comply with ECO save energy regulations, the monitor will go to Green Mode if there's no operation during a period of time. Press any button, the monitor will be back to normal status.

Idle Duration: Set an idle time to enter Energy Save mode

Select a time to enter Green Mode if there's no operation. Set to "OFF" will disable Green Mode, please double confirm.

IP/Net Mask/Gateway/Port: Set monitor IP address for webserver remote control.

OSD TIME: OSD Duration setting.

Key Brightness: Key Led Brightness setting.

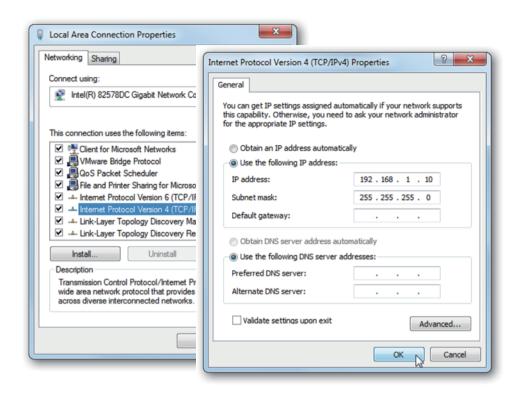
Language: Set menu display language to Chinese or English.

System Reset: Reset OSD setting.

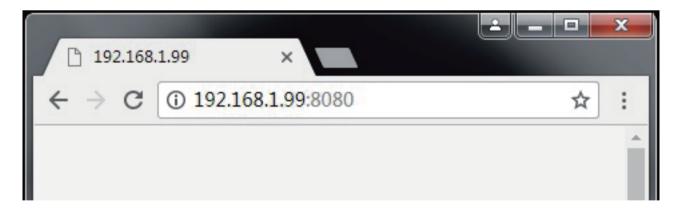
Update: Put the program into U-disk root directory, plug U-disk into USB port, go to System → Update → Yes. When it shows "Update Successed", upgrade fisnishes.

ETHERNET

1) Enter Menu- External Control - IP/Net Mask/Gateway/Port to set the monitor addresses. Set the computer Ethernet IP address at the same LAN environment as the Monitor.

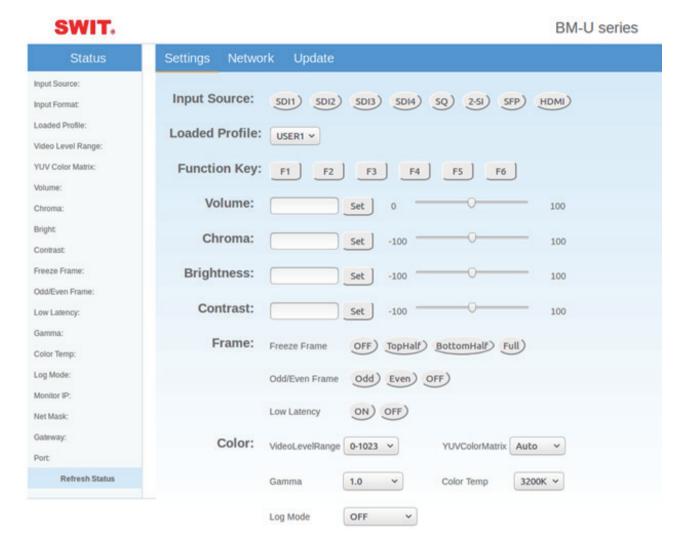


2) Launch any of a web browser on the computer, and enter URL: Monitor IP + port (for example 192.168.1.99:8080). The webserver control page will be displayed.



- Use crossed wired cable for computer-monitor directly connection.
- Use straight-through wired cable for Router connection.
- Please seek help from your webmaster for any network connections.

Webserver page control interface







Specification

	Specification					
LCD Performance						
Size			23.8 inches			
Display area		rea	527.04×296.46 mm			
Resolution		on	3840×RGB×2160			
Display Colors		Colors	1.07G			
	ect ra		16:9			
	htne		300cd/m^2			
_	trast		1000:1			
		Angle	178°/178°			
		utput	110 / 110			
ШРС	10,00	BNC×2	12G/6G/3G/HD/SD-SDI×2			
١.		BNC×2	3G/HD/SD-SDI×2			
Inpu	ıt	HDMI×1	HDMI 2.0			
	-	RS-485×2	GPI×1,UMD×1			
	-	USB×1	OT IN IX OMD NI			
Out	out	BNC×2	12G/6G/3G/HD/SD-SDI×2			
		BNC×2	3G/HD/SD-SDI×2			
		RS-485×1	UMD×1			
Vide	on fo	rmat				
viuc	-0 10	IIIIat	480i/576i/480p/576p			
		·	1080i (60/59.94/50)			
HDM	/ 11		720p (60 / 59.94 / 50)			
1101			1080p (60/59.94/50/30/29.97/25/24/23.98)			
			1080psf (30/29.97/25/24/23.98)			
		·	3840x2160(60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)			
	CM	DTE 42EM A/D	4096x2160(60/59.94/50/30/29.97/25/24/23.98)			
		PTE-425M-A/B	1080p (60 / 59.94 / 50)			
	SIVI	PTE-274M	1080i (60 / 59.94 / 50)			
	C \ 41	DTE DD011	1080p (30/29.97/25/24/23.98)			
		PTE-RP211	1080psf(30/29.97/25/24/23.98)			
		PTE-296M	720p (60 / 59.94 / 50)			
SDI		PTE-125M	480i (59.94)			
		-R BT.656	576i (50)			
		PTEST2048-1:2011	2048×1080p (23.98/24/25/29.97/30/50/59.94/60)			
			3840×2160p (23.98/24/25/29.97/30)			
	SMI	PTE ST2082-10	3840×2160p (50/59.94/60)			
Manual de la		voltago	AC:100V~240V			
VVOI	Working voltage		DC/battery:12V~17V			
Power consumption		nsumption	55W			
Working temperature		temperature	0°C~+40°C			
Working humidity		humidity	10%~90%			
Storage temperature			- 15°C∼ + 60°C			
Storage humidity		-	10%~90%			
	Dimensions		576.2×387.3×97.3mm(monitor only)			
Net	Net weight (w/o stand)		9.5Kg			

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 contact or not correctly 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.	
	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 "Default" under "System" submenu	
Image or	Distortion of the image	Reset the Aspect ratio	
color abnormal	Set to Red/Green/Blue only or Mono	Turn the Blue only/ Red Only/ Green Only/Mono off under R/G/B/Mono submenu	
	Turn on the "Focus Assist" function	Turn off the "Focus Assist" function	
	Turn on the "False Color" function	Turn off the "False Color" function	
No audio output	Bad contact of signal cable	Change signal cable	
No audio output	Wrong connection or bad contact of Audio cable	Connect to the correct input socket	



SWIT Electronics Co., Ltd.

Add: 10 Hengtong Road, Xin'gang, Nanjing Economic and Technological Development Zone, Nanjing 210038, P.R.China

Tel: +86-25-85805753 Email: contact@swit.cc

SWIT Electronics Europe GmbH

Add: Hochstr. 17, 47228 Duisburg, Germany

Tel: +49(0)20659799339 Email: info@swit-europe.com

SWIT Electronics America, Inc

Add: 3350 Scott Boulevard 61-02, Santa Clara, CA 95054, USA Tel: (408)260-8258, 1-866-986-SWIT(7948) Email: info@swit.us