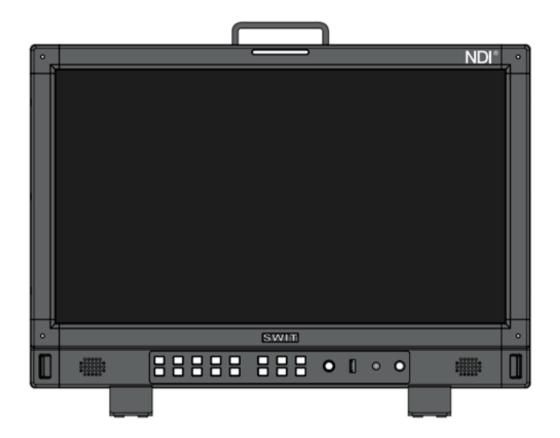


Model: BM-215NDI、245NDI



User Manual

Thank you for choosing SWIT products, please read this user manual seriously before using

Ver:A

Statement

- Any internal technology (including hardware, software design and product trademark) of the product shall be protected by law, and any infringement of intellectual property rights of the product shall be investigated for legal liability;
- All the brand and trademark in this product are protected by law, all other company's brand and trademark in this product are protected by their owner's law;
- In order to better service majority users, SWIT products will keep improving and developing, SWIT keep the right to revise and improve this user manual without previous notice;
- The warranty period of this product are two years, the following condition are not covered by the warranty:
 - (1) The appearance and the LCD panel are damaged by man-made out force;
 - (2) The amount of defective pixels are under three;
 - (3) The product is damaged by using incompatible power adaptor;
 - (4) The product is damaged by failure to use, maintain or storage according to the user manual;
 - (5) The product is disassembled by user in the process of using;
 - (6) Other faults or damages not caused by design ,technology,manufacture and quality.
 - * Any sales person have no right to provide extra warranty beyond these terms
- Please feel free to contact with us by phone, fax or email when you have any question or need any help in the process of using.
 - —— This user manual applies to all BM-NDI model monitor, all the illustration take BM-215-NDI for example, any difference of specification or appearance, this manual will be attached text explanation;

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

Attention

Warning

- 1. Do not put the monitor in rainy or wet environment to avoid the dangerous of fire or electric shock;
- 2. Do not put the monitor close to any device with high-intensity magnetic.

Warning of power connection

- 1. Please using original power adaptor to avoid damage;
- 2. When using other DC power ,make sure the range of voltage,output power and polarity of it meet requirements;
- 3. Please cut off the power including AC power cable or battery under below conditions:
 - (A) .If the monitor will not be used for a long time.
 - (B) .If the power cable or power socket is damaged.
 - (C). If the housing of the monitor is broken by out-force or falling.

Warning of using

- 1. Do not touch the surface of screen directly to avoid damage, also the fingerprint on the screen will be hard to clean.
- 2. Do not put pressure on the LCD screen because LCD screen is fragile;
- 3. Do not put the monitor on anywhere unstable to avoid falling.

Maintenance and cleaning

- 1. Use soft dry cloth and LCD screen clean liquid to clean the dust and stain on the screen.
- 2. Do not put pressure on LCD screen when doing cleaning.
- 3. Do not clean the LCD screen by water or other chemical liquid to avoid damage.

Table of contents 2 Attention 3 Table of contents 4 Packing list 4 Product feature 4 Instruction 5 Front panel view 5 Back side view 7 OSD 8 Status 9 Operation 10 The menu content 10 Dimension 18 Specification 19 Troubleshoot 22

Packing list

No.	Standard accessories	Quantities
1 Monitor		×1
2	Battery plate (V-mount or Gold-mount)	×1
3	Monitor stand	×2
4	Power cable	×1

Overview

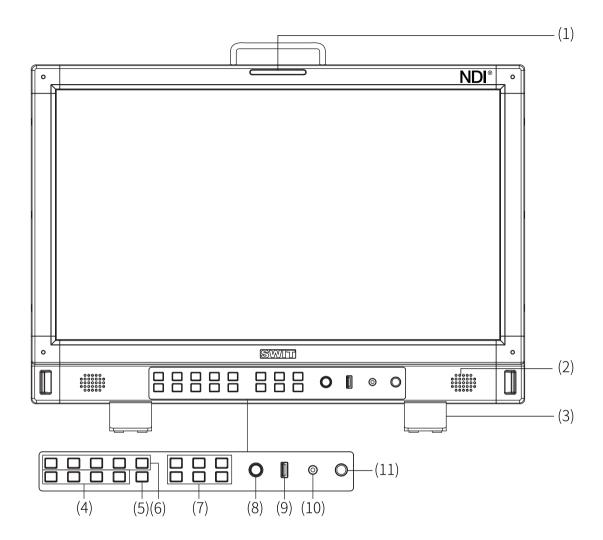
The resolution of BM-NDI series LCD monitor is up to 1920*1080, H178°/V178° super wide angle of view, support 2* 3G/HD/SD-SDI input \ 1* HDMI 2.0 input and 1* NDI input, 1* 3G/HD/SD-SDI loop out, 1* NDI to SDI loop out, 1* 3.5mm jack input and speaker.

Product feature

- 1920×1080 HD resolution;
- Support NDI signal input, multi signal source input;
- Support PIP and PBP function;
- Support 16 channel embedded audio bar, any of two channel can be chosen to output;
- Waveform Y/Cb/Cr/R/G/B/RGB, support single line waveform;
- Support vector scope、R/G/B/Y histogram、red/blue focus assist;
- Support 3DLUT (17x17x17) Auto self-calibration;
- Safety Marker: 4:3/13:9/14:9/15:9/16:9/1.85:1/2.35:1/2.39:1/2:1/User 1/User 2;
- Support USB firmware update and LOG file uploading (The format of USB driver should be FAT 32).

Instruction

· Front panel view

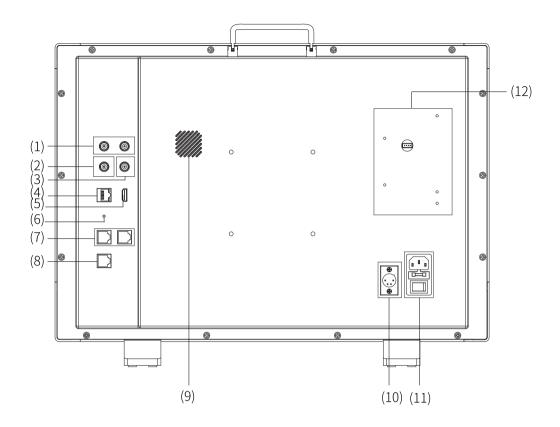


- (1) Tally light: Can be set to red, green and yellow;
- (2) Speaker: Can play embedded audio of HDMI、SDI and NDI. (Speaker will not work when earphone is connecting);
- (3) Desktop stand feet;
- (4) User1~User4:In order to quickly enter in the mode which was preset already. Long press to save user setting. Refer to "IX. System setting" for details.
- (5) INFO: Press "INFO" to remove or recover all current function in display like status information and A/V analyzed pattern; Press "INFO" to exit menu when the menu is on;
- (6) F1~F5 Function key: User can set these function key to different function according to their requirement;

	Brightness: Brightness control,Range:-100~100, Default value:0			
Brightness Contrast Saturation	Contrast:Contrast control,Range:-100~100, Default value: 0			
	Saturation: Saturation control, Range:-100~100, Default value:0			
Backlight Volume Source	Backlight: Backlight control, Range: 0~100, Default value: 16			
	Volume: Volume control, Range: 0~100, Default value: 36 Source: Input signal source selection			
	t"、"Saturation、Backlight"、"Volume" on the front panel to ons,turn "MENU" knob left and right to control the			
"NDI Source" and "NDI setting" in the menu is to choose the input source under NDI channel, here are the details: 1. NDI Source: Monitor will scan local network and show all open NDI sources., choose NDI device in primary menu and choose NDI source in secondary menu, press Menu/Enter button to choose NDI source, the currently selected device and NDI source are noted with *				
Main Menu Exit&Status Input PRO CONVERT (#00 Picture Control Assist De-embed Auto Calibration NDI Exit Page (1/1) Page (
				
Main Me Exit&Status Input Picture Color Manag Control Assist De-embed Auto Calibra NDI Source NDI Settings Multiview Se System	ND Exit Discovery Server 192. 168. 001, 200			

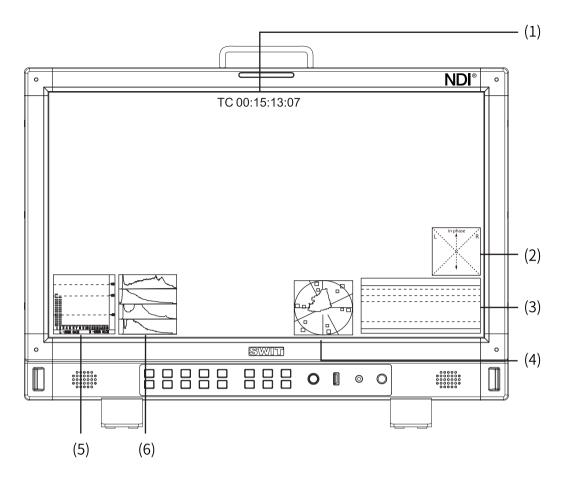
- (8) Menu/Enter: When menu is off, press the button directly to open the Main Menu; rotate "MENU" to choose different setting selection or adjust the value; press the knob to confirm the setting;
- (9) LUT/Firmware: Firmware update or LUT file upload;
- (10) PHONE: 3.5mm jack input, monitor the embedded signal of NDI, SDI and HDMI;
- (11) Power: power switch.

· Back side view



- (1) SDI IN1/2: 3G-SDI Input
- (2) NDI-SDI loop out:3G-SDI to NDI output
- (3) SDI loop out: 3G-SDI loop out.
- (4) NDI IN:6G-NDI Input.
- (5) HDMI 2.0 IN:3G HDMI Input, will not show the content protected by HDCP
- (6) Reset: For resetting the monitor
- (7) RS485:TSL UMD control port
- (8) GPI:GPI control port
- (9) Fan
- (10) DC IN:12V~17V
- (11) AC IN:100V~240V
- (12) Battery plate: Support V-mount battery or Gold-mount battery

· OSD



1. Time code (SDI)

Show the information of time code which is embedded in SDI signal (LTC, VITC1&2), will show "TC:UNLOCKED" if detected no information of time code. (#User can set the shortcut key (F1~F5) or GPI pins to "Time code" function to switch on/off this function.)

2. Lissajous pattern

Lissajous pattern will show audio signal, user can set shortcut key (F1~F5) or GPI pin to "Lissajous pattern" function, in order to quickly switch on/off this function.

3. Waveform

User can switch on/off "Waveform" function or choose different type of waveform by setting shortcut key(F1~F5) or GPI pin to "Waveform" function on the front panel. The parameters such as on-screen-position, transparency and color of "waveform" can be set in MENU.

4. Vector scope

User can switch on/off "Vector scope" function by setting shortcut key(F1~F5) or GPI pin to "Vector scope" on the front panel. The parameters such as on-screen-position, transparency and color of "Vector scope" can be set in MENU.

5. Audio meter

In order to monitor audio signal, User can switch on/off "Audio meter" function by setting shortcut key(F1~F5) or GPI pin to "Audio meter" function on the front panel. The parameters such as on-screen-position, transparency and numbers of audio channel of "Vector scope" can be set in MENU.

6. Histogram

User can switch on/off "Histogram" function by setting shortcut key(F1~F5) or GPI pin to "Histogram" function on the front panel.

Main Menu		Status	
Exit&Status Input Picture Color Management Control Assist De-embed	^ ^ ^ ^ ^ ^ ^ ^	Format Channel Color Temp F1 F2 F3	XX — (1) XX — (2) XX — (3) XXX — (4) XXX XXX
Auto Calibration NDI Source NDI Settings Multiview Setting System	>	F5 Loaded Profile Network Version Host Name	XXX (5) XX (6) XX (7) XX (8)

Press "Menu/Enter", the menu will show in the top left corner of screen, "Exit & status" will show current working status of monitor.

(1) Format

Show current input signal format; Will show "NO SIGNAL" when there is no recognizable input signal". Will show the format of current SDI source when the input source is SDI.

(2) Channel

Show current chosen input source.

(3) Color temp

Show current color temperature.

(4) Function Key F1~F5

Show the function of Key F1~F5.

(5) Loaded Profile

Show current user mode.

(6) Network

Show the connection status of Internet.

(7) Version

Show version of current firmware.

(8) Host name

Show the model of this monitor.

Operation

Steps

- 1. Press "Menu/Enter" knob, the menu will show on top left corner of screen.
- 2. Turn "Menu/Enter" left and right to choose different sub-menu, the chosen one will show yellow backlight, press "Menu/Enter" knob to set the corresponding parameter.
- 3. Turn "Menu/Enter" knob left and right to set corresponding parameter, press "Menu/Enter" knob, the chosen one will show yellow backlight.
- 4. Turn "Menu/Enter" knob left and right to set corresponding parameter, press "Menu/Enter" knob to save the setting after finish adjustment.
- 5. Turn "Menu/Enter" knob to choose "EXIT", press "Menu/Enter" knob, exit the sub menu, choose "EXIT & STATUS" in the main menu, press "Menu/Enter" knob to exit main menu.

Attention

- * The options which shown grey can not be set.
- * The menu will save and exit automatically when no operation is performed within a period of time.

The menu content

"The menu content" will introduce the specific contents of setting in menu and sub-menu, the menu option which is noted with " * " will be explained in detail under the list.

I .Input—Set the color of input video

Menu option	Instruction	The range of value
Input range *1	Set the input range of video	0-1023,4-1019,64-940,64-1023
YUV Color Matrix	Choose YUV Color Matrix	Auto, BT.601, BT.709, BT.2020
Red Gain	Adjust the value of Red Gain	-100 ~ +100
Green Gain	Adjust the value of Green Gain	-100 ~ +100
Blue Gain	Adjust the value of Blue Gain	-100 ~ +100
Red Bias	Adjust the value of Red Bias	-100 ~ +100
Green Bias	Adjust the value of Green Bias	-100 ~ +100
Blue Bias	Adjust the value of Blue Bias	-100 ~ +100
Reset	Reset the value of Gain and Bias	

^{*1} Input range

Set the input range to compatible with input video signal, the default input range is 64-940 which is compatible with broadcast application program.

II . Picture *1—Set the display of input video

Menu option	Instruction	The range of value
Contrast	Adjust the contrast of video	-100 ~ +100
Brightness	Adjust the brightness of video	-100 ~ +100
Saturation	Adjust the saturation of video	-100 ~ +100
Sharpness	Adjust the sharpness of video	0~+100
Backlight	Adjust the backlight of video	0~+100

*1 Picture

The value of "Contrast", "Brightness", "Saturation", "Sharpness" and "Backlight" can be quickly adjusted by the shortcut key on the front panel.

III、Color management—Set the color of input video

Menu opti	on	Instruction	The range of value
Color Gamut *1		Set the Color Gamut	LCD Panel, DCI-P3, Rec.709, Rec.2020
Gamma		Set the value of Gamma	1.0, 1.8, 2.2, 2.4, 2.6, PQ1000, HLG1000, S-Log3
	HLG System Gamma *2	Set HLG System Gamma	1.0,1.1,1.2 (default) ,1.3,1.4,1.5
These option	D-Log to 709 *3	Set the camera LUT when Color Gamut is Rec 709.	OFF, J-Log1, Log-C, S-Log2, C-Log, V-Log, RedLogFilm, S-Log3, User-Log
will only show under the value of specific Color Gamut	D-Log to PQ	Set the camera LUT when Color Gamut is Rec.2020, Gamma is PQ1000	OFF,ARRI_LogC_PQ,Canon_CLog2Cin_PQ Canon_CLog3Cin_PQ, Panasonic_VLog_PQ, RED_L3G10_PQ, Sony_SLog3_Cin_PQ, Sony_SLog3_SG3_PQ
and Gamma	D-Log to HLG	Set the camera LUT when Color Gamut is Rec.2020, Gamma is HLG1000	OFF,ARRI_LogC_HLG,Canon_CLog2Cin_HLG Canon_CLog3Cin_HLG, Panasonic_VLog_HLG, RED_L3G10_HLG, Sony_SLog3_Cin_HLG, Sony_SLog3_SG3_HLG
Color temp		Set the value of color temperature	2000K~10000K, D55,D65,D75,D93,USER1,USER2
Color temp(USER)		Set the value of color temperature (USER)	2000K~10000K, D55, D65, D75, D93
Red Gain		Adjust the value of Red Gain(USER)	-100 ~ +100
Green Gain		Adjust the value of Green Gain(USER)	-100 ~ +100
Blue Gain		Adjust the value of Blue Gain(USER)	-100 ~ +100
Red Bias		Adjust the value of Red Bias(USER)	-100 ~ +100
Green Bias		Adjust the value of Green Bias(USER)	-100~+100
Blue Bias		Adjust the value of Blue Bias(USER)	-100~+100
Import*4		Choose the cube file which need to be imported	None, 3DLut.cube

*1 Color Gamut

Set the Color Gamut to match with input video.

*2 HLG System Gamma

Only adjustable when Gamma is HLG1000

*3 D-Log to 709:Only adjustable when Color Gamut is Rec.709 and Gamma is between 1.0, 1.8, 2.2, 2.4, 2.6

*4 Import

Put the cube file in the root of USB driver, connect USB driver with the monitor via USB interface on the front panel, choose and import corresponding file in the menu.

IV、Control

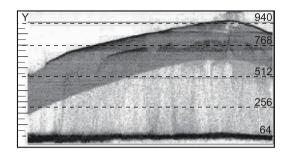
Menu option	Instruction	Selection
F1		
F2		Waveform, Marker, Blue only,
F3	Set the function of shortcut key	Audio meter, Vector
F4		, and the second
F5		

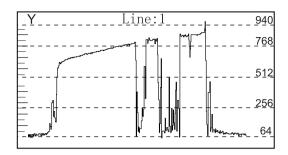
V . Assist

Menu o	ption	Instruction	Selection
False colo	r	Switch on/off false color function	OFF,ON
Blue only		Switch on/off Blue only function	OFF,ON
Focus ass	ist	Switch on/off Focus assist function and choose the color of it.	OFF,Blue,Red
Zebra		Switch on/off Zebra function	OFF,ON
	Waveform	Switch on/off waveform function	OFF,ON
	WFM Type	Set the type of Waveform	Y, Cb, Cr, R,G,B, RGB
	WFM Position	Set the display position of Waveform pattern	Bottom left,Bottom right,Top left,Top right
Waveform	WFM Blending	Set the transparency of the background of Waveform pattern	OFF,LOW,HIGH
Setting	WFM Color	Set the color of the Waveform	White,Green,Color
	WFM Single Line*1	Switch on/off Single line Waveform function	OFF,ON
	WFM Line Count	Adjust to show Waveform of specific lines	1-2160
	Vector	Switch on/off Vector function	OFF, ON
	CIE	Swtich on/off color gamut pattern	OFF,ON
	Vector Position	Set the display position of Vector pattern.	Bottom left,Bottom right,Top left,Top right
Vector Setting	Vector Blending	Set the transparency of the background of Vector pattern .	OFF,LOW,HIGH
	Vector color	Set the color of Vector pattern	White,Green,Color
Llista grapa	Histogram	Switch on/off Histogram pattern	OFF,ON
Histogram setting	Histogram Blending	Set the transparency of the background of Histogram pattern .	OFF,LOW,HIGH
	Marker	Switch on/off Marker function	OFF,Marker,Safety zone,All
	Marker Select	Set the ratio of Marker	16:9, 15:9, 14:9, 13:9, 4:3, 2.39:1, 2.35:1, 2:1, 1.85:1, USER 1, USER 2
	Horizontal*2	Set the X value of Marker function	50%~99% (0~1920)
	Vertical	Set the Y value of Marker function	50%~99% (0~1080)
Marker	Safety area	Set the ratio of Safety area	80%~99%
setting	Fit Marker	Switch on/off Fit Marker function	OFF,ON
	Center Marker	Switch on/off Center Marker function	OFF,ON
	Marker Color	Set the color of Marker	White,Red,Green,Blue,Black,Grey
	Marker Type	Set the type of Marker	Type 1, Type 2
	Marker Outside	Switch on/off Marker Outside function and change the color.	OFF,Black,Grey

*1 WFM Single line

Switch on "WFM Single line" function, Monitor only show one line waveform of video. Turn "Menu/Enter" knob left and right to choose the number of waveform lines. (The selected range of waveform lines depends on the current signal format.)





WFM Single Line: OFF

WFM Single Line:ON

*2 Horizontal/Vertical

When the "Marker Select" is "USER 1" or "USER 2", User can adjust X value and Y value of Marker according to their requirement, the value is adjustable between 50%~99% (0~1920 and 0~1080).

VI、De-embed

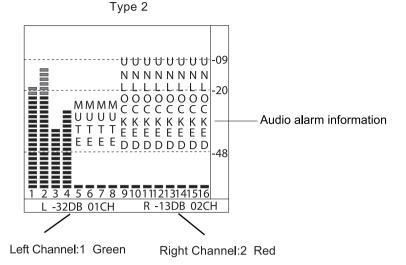
Menu option	Instruction	Selection
Lissajous	Switch on/off Lissajous pattern	OFF,ON
Lissajous Position	Set the display position of Lissajous Pattern	Bottom left,Bottom right,Top left, Top right
Audio Bar	Switch on/off Audio Bar function	OFF,ON
Bar Position	Set the display position of Audio Bar	Bottom left,Bottom right,Top left, Top right
Bar blending	Set the transparency of the background of Audio Bar .	OFF,LOW,HIGH
Bar type*1	Set the type of Audio Bar	Type 1, Type 2
Left Channel	Select left input audio channel	Channel 1~16
Right Channel	Select Right input audio channel	Channel 1~16
Volume	Adjust the volume of audio signal	0~100

^{*1} Bar type:Audio bar show 16 channel

Type 1:Audio bar only

Type 2:Show db value of audio signal, audio warning signal and right/left channel information

Type 1



VII. Auto Calibration*1

Menu option	Instruction	Selection
Probe Select*2	Select the calibrator	X-rite l1 Pro OEM, Jeti Specbos 1211
Start Calibration*3	Start to calibrate or not	NO/YES
Measurement*4	Test current color	NO/YES

*1 Auto Calibration

Monitor internally installed 3DLUT Calibrate software, support to directly connect with below calibrator via USB interface on the front panel.

When start to calibrate, calibrate probe will read the standard color created by monitor and upload the result to monitor via USB interface.

Monitor will compare the color which created by calibrate probe with standard color and create a 3D LUT file and finish calibrating automatically.

*2 Probe Select

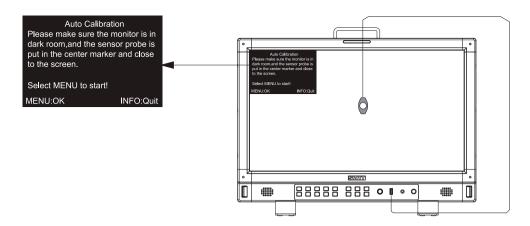
This monitor support below kinds of calibrate probe:

Brand	Model
X-rite	I1 Pro OEM
JETI	Specbos 1211

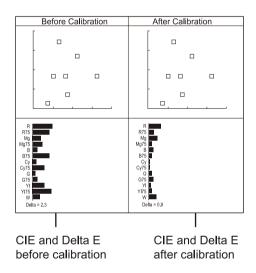
*3 Start Calibration

Steps:

- 1. Switch on monitor.
- 2. Connect Calibrator with monitor via USB interface on the front panel (Compatible with X-rite and JETI). Make sure monitor and calibrator is in good condition and the aging time of monitor is over 30 minutes.
- 3. Before the calibration, please choose "System" "Recall Profile" "Factory" to recall your monitor, then choose "Auto Calibration" "Probe Select" "X-rite I 1 pro OEM".
- 4. Select "Start Calibration"-"YES" to start calibrating. Monitor will show info box and calibrate position hint box, make sure the lens of calibrator is forward to the calibrate position hint box. Do not push the LCD screen when setting the calibrator.



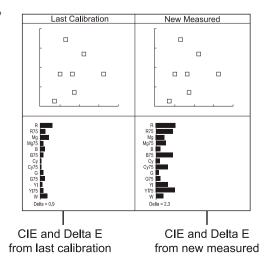
- 5. Select "OK" to do auto-calibratio. Calibrator will measure the color of screen and calibrate the screen automatically, please pay attention to the progress bar.
- 6. When the calibration is finished, press "INFO" to switch off the menu and using normally.
- 7. The screen will show the Delta value before and after calibration, shown as below:



*4 Measurement

Monitor have calibrated in factory already but also need to re-calibrate after a period of time using. Before re-calibrating, "Measurement" function will show Delta value of last time calibration, user can decide to calibrate or not from comparing the Delta value.

Before the measurement, please choose "System" - "Recall Profile" - "Factory" to recall your monitor, Connect your probe with the monitor and put it on the right position, choose "Auto Calibration" - "Measure", monitor will do auto measurement and finished in 30 seconds. The Result is as follows:



VIII. Multiview Setting

Menu option	Instruction	Selection
Multiview Type*1	Set the type of Multiview function	PBP,PIP
PIC 1 *2	Set the signal channel of Multiview function	SDI1, SDI2, HDMI,NDI
PIC 2	Set the signal enamer of Mattiview function	
PIP Window Position	Set the Position of PIP on screen	Bottom left,Bottom right,Top left,Top right,Center
Border	Set the border of PIP function	ON, OFF

*1 Multiview Type

"Multiview Setting" is available when signal channel is Multiview, otherwise "Multiview setting" will show grey and unavailable;

Part of menu function will be disabled when signal channel is Multiview.

*2 PIC 1, PIC 2

When signal channel is "Multiview", "PIC 1" and "PIC 2" can not show SDI1 and SDI2 in the same time.

IX, System

Menu option	Instruction	Selection		
Key Lock *1	Set key lock function	OFF,Lock All,Lock Rotary Knobs, Lock Key Buttons		
Recall Profile *2	Select current Mode	Factory, USER1~USER4		
Save Profile	Save current setting to one of USER setting	USER1~USER4		
Green Mode*3	Set the display mode of Green Mode	Black Bcklight,Grey Backlight		
Idle Duration*4	Set the stand-by time before switch on Green Mode	30s, 1hour, 2hour, 4hour, OFF		
DHCP*5	Switch on/off DHCP Mode	ON,OFF		
IP *6		192.168.001.200 255.255.255.000		
Net mask	Show current network information of monitor			
Gateway		192.168.001.001		
OSD TIME	Set the lasting time of OSD	5~180s		
Language	Select the operation language of monitor	中文(Chinese), English		
System Reset	Reset all setting in the menu	NO/YES		
Update *7	To do update for monitor	NO/YES		

*1.Key Lock



When "Key Lock" function is "ON", part of menu will be hidden, only "Menu" button is available, other button will be locked.

Screen will show "Key Locked" when the locking button is pressed, shown as below:



*2 Recall Profile/Save Profile

Monitor supply 4 User setting, User can save current setting according to demand and habit to (USER1~USER4). After that, user only need to select "USER1~USER4" to show corresponding menu setting.

For example: Adjust "Color Temp" to 2200K, switch on assist function such as "Histogram", set function key such as F1 to "Only Blue", now save all these setting to "USER 1", turn "Menu/Enter" to select "Recall Profile"-"USER 1", monitor will change all setting to the setting which saved in "USER 1".

*3 Green Mode DHCP

The Green Mode function is not implemented.

*4 Idle Duration

The Idle Duration function is not implemented.

*5 DHCP

Connect monitor to the LAN with NDI IN/ETHERNET port in order to control monitor by website. User can set IP/Net mask/Gateway manually to match their own Network segment when "DHCP" function is "OFF" in order to detect the NDI signal source in system.

*6 IP

Show the IP address of Monitor.

*7 Update

Firmware can be updated via USB port, update steps as below:

- 1. Update the latest firmware to the root of USB driver
- 2, Switch on monitor, connect your USB driver with monitor
- 3、Select "MENU"-"SYSTEM"-"Update", the monitor will update automatically.
- 4. Press "Power" button to switch off and reboot monitor after successfully updating.

UPDATE

Do you want to update now? Select MENU to start !

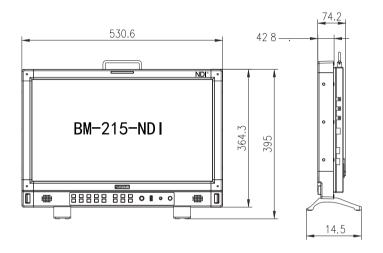
MENU:OK

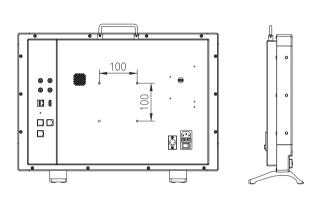
INFO: Quit

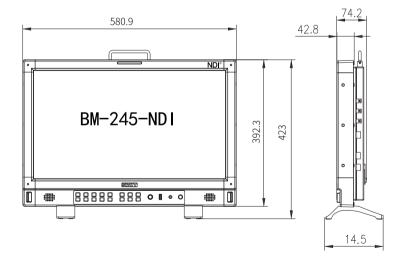
- *Caution
- 1. Make sure only one firmware is copied to the root of USB driver one time.
- 2. Do not cut off the power when doing update.

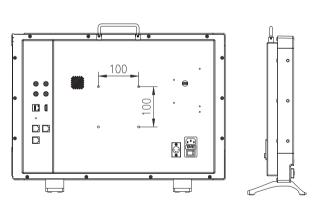
Overall Dimension

Dimension (mm)









Specification

LCD Performance						
Model	BM-215-NDI	BM-245-NDI				
Size	21.5	23.8				
Display area	495.6×292.2mm	543.0×316.72mm				
Resolution	1920*1080	1920*1080				
Display color	16.7M	16.7M				
Display ratio	16:9	16:9				
Brightness	400	400				
Contrast	3000:1	3000:1				
Viewing angle	H/V:178°/178°	H/V:178°/178°				
Input /Output						
	BNC×2	3G/HD/SD-SDI×2				
	HDMI×1	HDMI Input				
Input	RS-485×2	UMD×1				
Прис	GPI×1					
	USB×1					
	ETHERNRT/NDI	12G/6G/3G/HD/SD				
	BNC×1	3G/HD/SD-SDI×1				
Output	BNC to NDI×1	3G/HD/SD-NDI×1				
	RS-485×1	UMD×1				
Other specification						
Working	AC:100V~240V					
voltage	DC/Battery:12V~17V					
Power consumption	45W					
Working Temperature	0°C∼+50°C					
Working Humidity	10%~90%					
Storage Temp	- 15°C∼ + 60°C					
Storage Humidity	10%~90%					
Overall Dimension	530.6×364.3×74.2mm	580.9×392.3×74.2mm				
Net weight (Only monitor body)	6.5KG	8.87KG				

Supported format: Below signal format can be displayed on the monitor

		Input terminal			Signal format shown in the Status Display as		
No.	Format	SDI1/2	NDI	HDMI	SDI	НДМІ	NDI
1	720×480/60I	√	_	_	720*480I60	_	_
2	720×480/60P	$\sqrt{}$	_	√	720×480/60P	720*480P60	_
3	720×576/50I	$\sqrt{}$		_	720×576/50I	_	_
4	720×576/50P	√		\checkmark	720×576/50P	720*576I50	_
5	1280×720/23.98P	$\sqrt{}$		√	1280×720/23.98P	1280*720P24	_
6	1280×720/24P	$\sqrt{}$		√	1280×720/24P	1280*720P24	_
7	1280×720/25P	√		\checkmark	1280×720/25P	1280*720P25	_
8	1280×720/29.97P	$\sqrt{}$		√	1280×720/29.97P	1280*720P30	_
9	1280×720/30P	√		√	1280×720/30P	1280*720P30	_
10	1280×720/50P	√	\checkmark	\checkmark	1280*720P50	1280*720P50	1280*720P50
11	1280×720/59.94P	$\sqrt{}$	$\sqrt{}$	√	1280*720P59.94	1280*720P60	1280*720P59.94
12	1280×720/60P	$\sqrt{}$	\checkmark	√	1280*720P60	1280*720P60	1280*720P60
13	1920×1080/50I	√	\checkmark	√	1920*1080I50	1920*1080 50	1920*1080 50
14	1920×1080/59.94I	√	$\sqrt{}$	√	1920*1080 59.94	1920*1080 60	1920*1080 60
15	1920×1080/60I	√	$\sqrt{}$	√	1920*1080 59.94	1920*1080 60	1920*1080 60
16	1920×1080/23.98PSF	√	_	√	1920×1080/23.98PSF	1920*1080PSF24	_
17	1920×1080/24PSF	√	_	√	1920×1080/24PSF	1920*1080PSF24	_
18	1920×1080/23.98P	√	$\sqrt{}$	√	1920×1080/23.98P	1920*1080P24	1920*1080P24
19	1920×1080/24P	√	\checkmark	√	1920*1080P23.98	1920*1080P24	1920*1080P24
20	1920×1080/25P	√	$\sqrt{}$	√	1920*1080P25	1920*1080P25	1920*1080P25
21	1920×1080/29.97P	√	√	√	1920*1080P29.97	1920*1080P30	1920*1080P30
22	1920×1080/30P	√	\checkmark	√	1920*1080P29.97	1920*1080P30	1920*1080P30
23	1920×1080/48P	√	_	√	1920×1080/48P	1920*1080P48	_
24	1920×1080/50P	√	√	√	1920*1080P50	1920*1080P50	1920*1080P50
25	1920×1080/59.94P	-√	\checkmark	√	1920*1080P59.94	1920*1080P60	1920*1080P59.94
26	1920×1080/60P	√	$\sqrt{}$	√	1920*1080P59.94	1920*1080P60	1920*1080P60
27	2048×1080/23.98PSF	√	_	√	2048×1080/23.98PSF	2048*1080PSF24	_
28	2048×1080/24PSF	√		√	2048×1080/24PSF	2048*1080PSF24	_
29	2048×1080/25PSF	√	_	√	2048×1080/25PSF	2048*1080PSF25	_
30	2048×1080/29.97PSF	√	_	$\sqrt{}$	2048×1080/29.97PSF	2048*1080PSF30	_
31	2048×1080/30PSF	√	_	√	2048×1080/30PSF	2048*1080PSF30	_
32	2048×1080/23.98P	√	_	√	2048×1080/23.98P	2048*1080P24	_
33	2048×1080/24P	√	_	√	2048×1080/24P	2048*1080P24	_
34	2048×1080/25P	√	_	√	2048×1080/25P	2048*1080P25	_
35	2048×1080/29.97P	√	_	√	2048×1080/29.97P	2048*1080P30	_
36	2048×1080/30P	√	_	√	2048×1080/30P	2048*1080P30	_
37	2048×1080/47.94P	√		√	2048×1080/47.94P	2048*1080P50	_
38	2048×1080/48P	√	_	√	2048×1080/48P	2048*1080P48	_
39	2048×1080/50P	√	_	√	2048×1080/50P	2048*1080P50	_

		Input terminal			Signal format shown in the Status Display as		
No.	Format	SDI1/2	NDI	HDMI	SDI	НДМІ	NDI
40	2048×1080/59.94P	√	_	√	2048×1080/59.94P	2048*1080P60	_
41	2048×1080/60P	√	_	√	2048×1080/60P	2048*1080P60	_
42	3840×2160/23.98P	_	√	_	_	_	3840*2160P23.98
43	3840×2160/24P	_	√	_	_	_	3840*2160P24
44	3840×2160/25P	_	√	_	_	_	3840*2160p25
45	3840×2160/29.97P	_	$\sqrt{}$	_	_	—	3840*2160P29.97
46	3840×2160/30P	_	√	_	_	_	3840*2160P30
47	3840×2160/47.94P	_		_	_	_	_
48	3840×2160/48P	_		_	_	_	_
49	3840×2160/50P	_	_	_	_	_	_
50	3840×2160/59.94P	_		_	_	_	_
51	3840×2160/60P	_		_	_	—	_
52	4096×2160/23.98P	_	_	_	_	_	_
53	4096×2160/24P	_	-	_	_	_	_
54	4096×2160/25P	_		_	_	_	_
55	4096×2160/29.97P	_	_	_	_	_	_
56	4096×2160/30P	_		_	_	_	_
57	4096×2160/47.94P	_		_	_	_	_
58	4096×2160/48P	_		_	_	_	_
59	4096×2160/50P	_	_	_	_	_	_
60	4096×2160/59.94P	_		_	_	_	_
61	4096×2160/60P	_	_	_	_	_	_

√: Support

—: Nonsupport

※ 3G support level A/level B; support RGB444

Troubleshooting

Problem	Possible fault reasons	Solution		
	Monitor have not switched on	Check the power connection of monitor, press "POWER" button on the front panel.		
	Wrong input source is selected.	Press "Source" button to change the input source		
	No NDI signal source is selected	Select NDI signal in "NDI source"		
	Input voltage is not stable	Reconnect the power		
No video	Signal cable loose/wrong connection	Check signal cable, make sure the signal cable connection is right		
	The battery power is out of power when powered by battery	Change a new battery		
	The polarity is reversed when using DIY power supply	Reconnect the cable refer to standard power supply.		
	The Network segment of monitor and NDI source is not same.	 Make sure the segment of monitor and NDI source is same; Switch on "DHCP" function to assign the IP address automatically 		
	Signal cable is in poor contact	Change a new signal cable		
	Video signal interference	Remove interference sources		
Image or	Parameters of color is over adjust	Upload User mode to "Factory"		
color abnormal	Video is distorted	Reset the aspect ratio		
cotor apriormat	Video show all blue	Switch off "Blue only" function		
	The "focus assist" function is "ON"	Switch off "Focus assist" function		
	The "False Color" function is "ON"	Switch off "False Color" function		
	Monitor is set to mute mode	Turn "MENU/ENTER" knob left and right to adjust volume		
No audio	Audio cable is in poor contact	Change audio cable		
output	Audio cable is disconnected or connect wrong.	Check and reconnect the audio cable		
Can not calibrate properly	Auto Calibration Failed! Err: 304 x-rite device error. Press INFO to cancel! MENU:OK INFO:Quit	 1.Check whether the calibration probe is selected correctly; 2.Check whether the calibration probe is connected with Monitor via USB; 3.Check whether the calibration can be used normally. 		

Can not measure properly	Measure Fai led! Err: 604 x-rite device error . Press INFO to cancel! MENU:OK INFO:Quit	 Check whether the calibration probe is selected correctly; Check whether the calibration probe is connected with Monitor via USB; Check whether the calibration can be used normally.
Can not update	UPDATE Update fai led! Err: 501 'BM XXX -NDIvx.x.XXx' File not found. Press INFO to cancel! MENU:OK INFO:Qui t	 Check whether the firmware is connected with monitor via USB Check whether the firmware is right.
Can not upload cube file.	Import file 3DLut . cube import failed! Err: 109 File not found. Press INFO to cancel! MENU: OK INFO:Quit	 Check whether the cube file is saved In the root of U-disk,make sure the cube file is right; Check whether the U-disk is connected with monitor via USB; Check whether the U-disk can be usd normally.
Monitor resetting	 Switch off the monitor; Find a suitable tool to hold the button (do not release it); Press "POWER" to switch on the monitor, Tally shows red light (can release the reset button after tally shows red light, do not shut down the monitor when the tally light shows red light); Monitor will reboot after reset; After reboot, monitor will show current firmware version (shown as below) Updates V10.5.20R MENU:OK INFO:Quit	Reset may cause the Settings to be lost. You are advised to perform the reset operation under the vendor's guidance



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