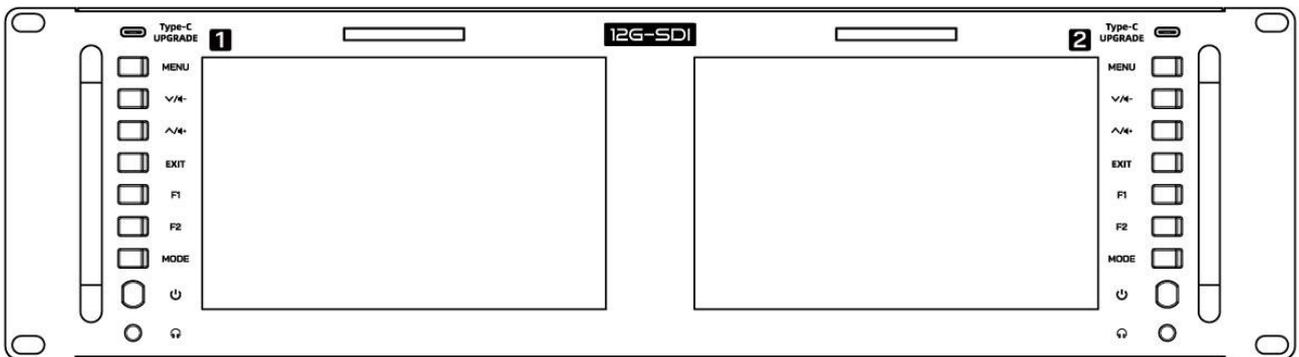


7"12G-SDI Dual

Rack-mount Monitor



User Manual

1. Product Overview

Thank you for using our photography, broadcast kits Dual Rack Mount Multi-Functional Color LCD Monitor. This monitor adopts advanced integrated circuits, high-quality IPS LCD panel, which makes it low power consumption, stable performance, no radiation, strong compatibility, and adjustable color temperature control etc. To meet different customers' needs, our monitor has the 12G-SDI single-link digital serial interface , high-definition multimedia interface HDMI, composite video signals CVBS input & output port.

To ensure best use of the unit, please read the user's manual carefully.

CAUTION

1. Please use the adapter attached in the accessory, if necessary, please use qualified adapter.
2. Please do not store or use in too cold, too hot or humid place.
3. Please keep the monitor away from the strong light while using this product to ensure the image effect and long-term use.
4. Please avoid heavy impact or drop onto the ground.
5. Please do NOT use chemical solutions to clean this product. Please wipe the monitor with a clean soft cloth to maintain the brightness of the surface.
6. No adjustable components in the monitor. Please do not take apart or repair the unit by yourself, to avoid the damage of the product.

KEY FEATURES

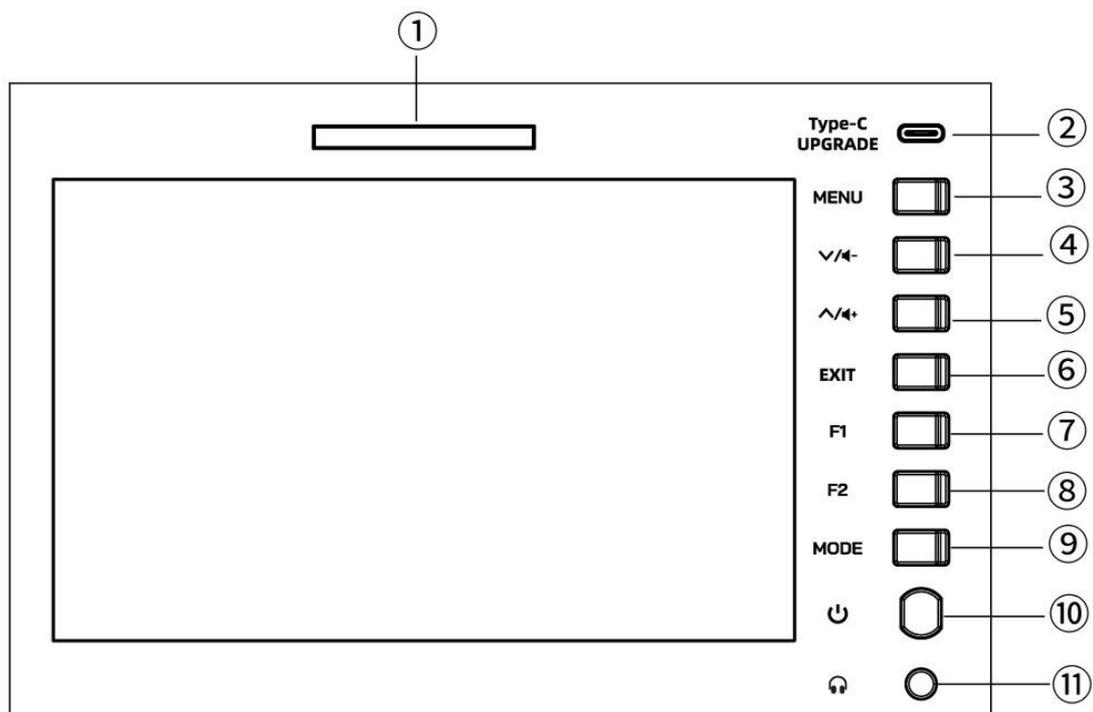
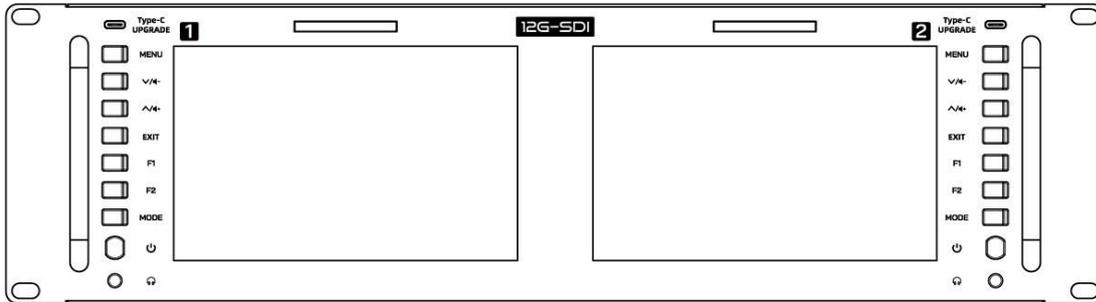
- ◆ Dual 7-inch full HD 1920x1200 IPS
- ◆ 3RU rack mount design, suitable for news production, post production, and broadcasting trucks, special vehicles video surveillance and other fields
- ◆ Flexible and intuitive button operation
- ◆ New menu interface, software function iconized
- ◆ Accurate full waveform analysis and monitoring
- ◆ Supports 3D LUT Log to REC.709 and user 3D LUT upload (up to 32)
- ◆ With Vector, Histogram, False Color, Monochrome etc. functions, can help you accurately exposure and focus every shot.
- ◆ Front panel stereo earphone output.
- ◆ Equipped with HDMI, 12G-SDI, CVBS inputs and outputs, meet different needs
- ◆ Remote control the monitor menu and functions through LAN port
- ◆ 3-color Tally indicator light, enhance the team cooperation

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1. Product Description

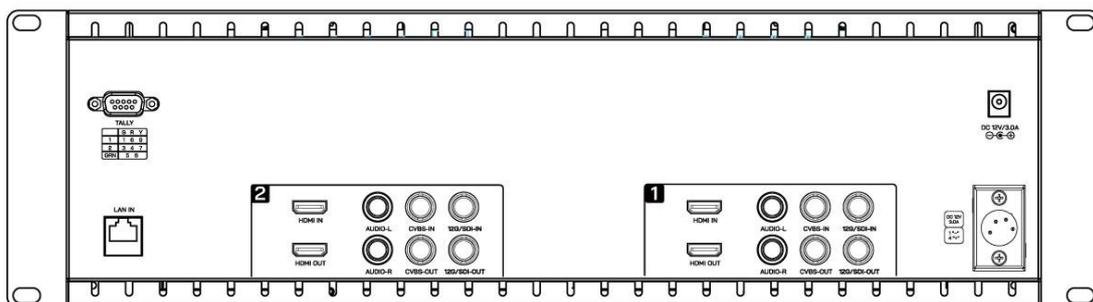
1.1 Front Panel Features

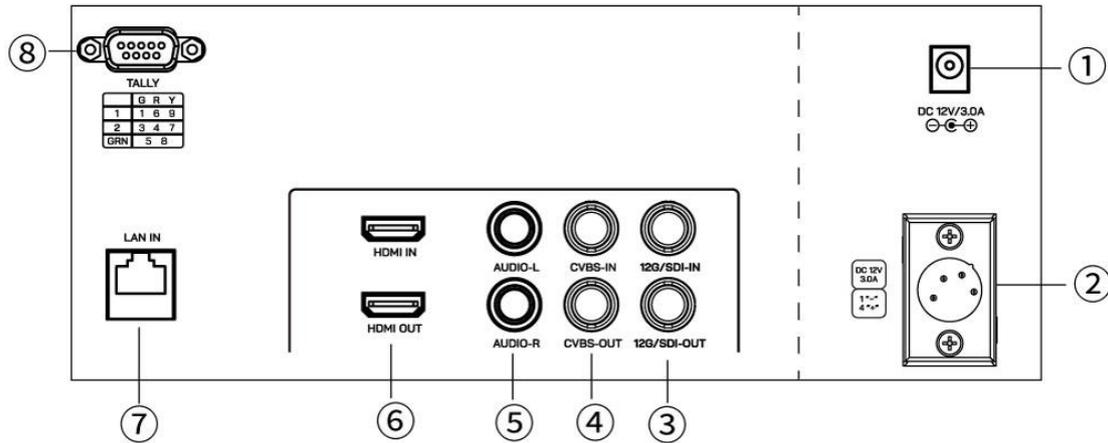


①	/	Tally indicator
②	Type-C UPGRADE	Firmware update; LUT file import
③	MENU	Menu button, enter/confirm
④	v/←	Next item selection/parameters increasing after enter the menu;

		Volume decrease adjustment when menu without display
⑤	^ / 🔊+	Previous item selection/parameters decreasing after enter the menu; Volume increasing adjustment when menu without display
⑥	EXIT	Exit the menu
⑦	F1	Custom function shortcut button
⑧	F2	Custom function shortcut button
⑨	MODE	Input signal selection and confirm
⑩	🔌	Power Switch
⑪	🎧	Earphone jack port

1.2 Rear Panel Features





①	/	DC 12V Power Input
②	/	4-pin XLR DC12V power input
③	12G/SDI	IN (12G-SDI single-link digital serial input) OUT(12G-SDI single-link digital serial input)
④	CVBS	IN(Composite video broadcast signal input) OUT(Composite video broadcast signal output)
⑤	AUDIO	L(Audio signal left stereo input) R(Audio signal right stereo input)
⑥	HDMI	IN(High definition multimedia interface input) OUT(High definition multimedia interface output)
⑦	LAN IN	Ethernet LAN Connector
⑧	TALLY	TALLY indicator input port

1.3 Power Input Way

There are two ways of power supply to our monitor:

A. The direct plug-in DC power input port supply. Please use DC5.5*2.1m DC power plug, power input polarity as shown

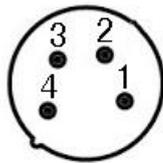


below:

Please use the qualified power supply with output power no less than 26W DC 9-24V.

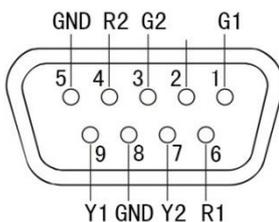
B. Via 4 pin XLR interface power supply.

Polarity of the 4-pin XLR power input as shown below, please note the polarity of the power input, otherwise it may damage monitor.



Pin number	Signal
1	GND
2	No connection
3	No connection
4	+12V

1.4 TALLY Indicator Connection

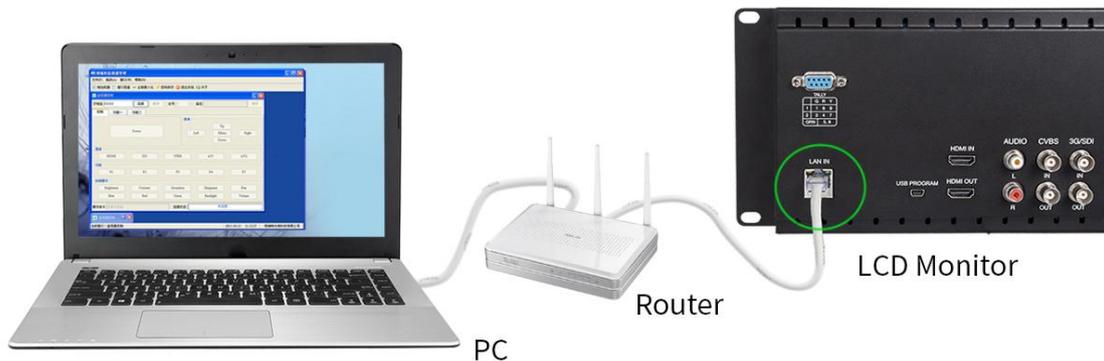


Indicator Color	Pin Connection	
	1 Screen	2 Screen
Green	1-5	3-8
Red	6-5	4-8
Yellow	9-5	7-8

GND port 5 and 8 is sharing

2. Ethernet Connection

Our monitor is equipped with Ethernet interface, and users can connect the PC with our monitor through the Ethernet port. Users can use the software to control the monitor and send their control and command to the specific monitor, as follows:



Connect the LAN port on the back of the monitor to the network. After connection, the monitor will display the same IP address with that device.

Get the control software: Download from the details page of FRM701G from website www.feelworld.cn

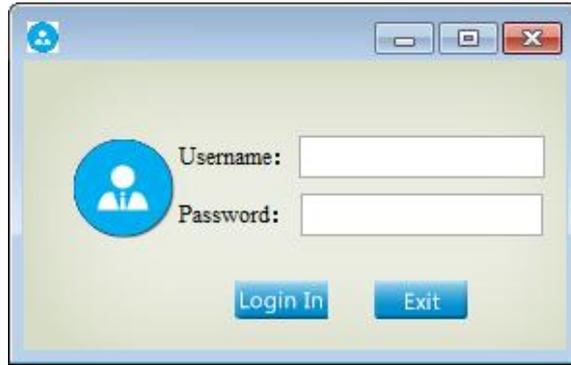


After downloaded open file



, Double Click





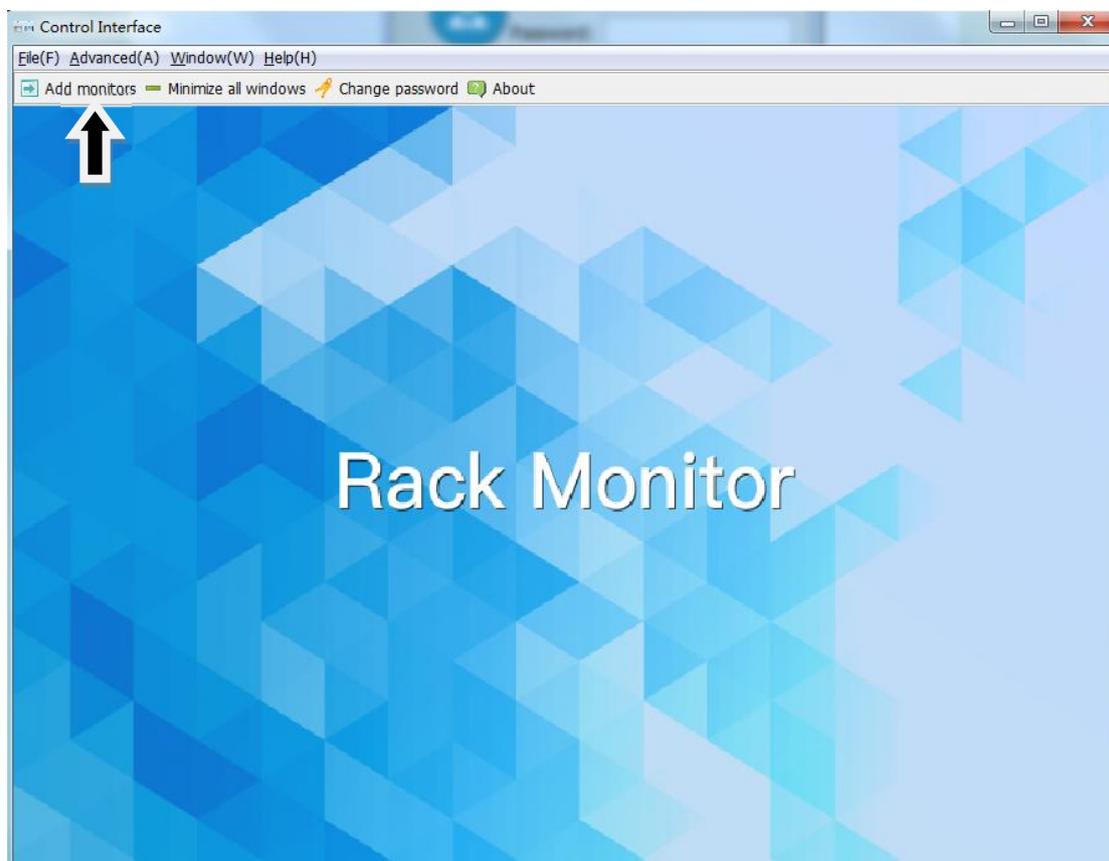
Then, Input:

Username: admin

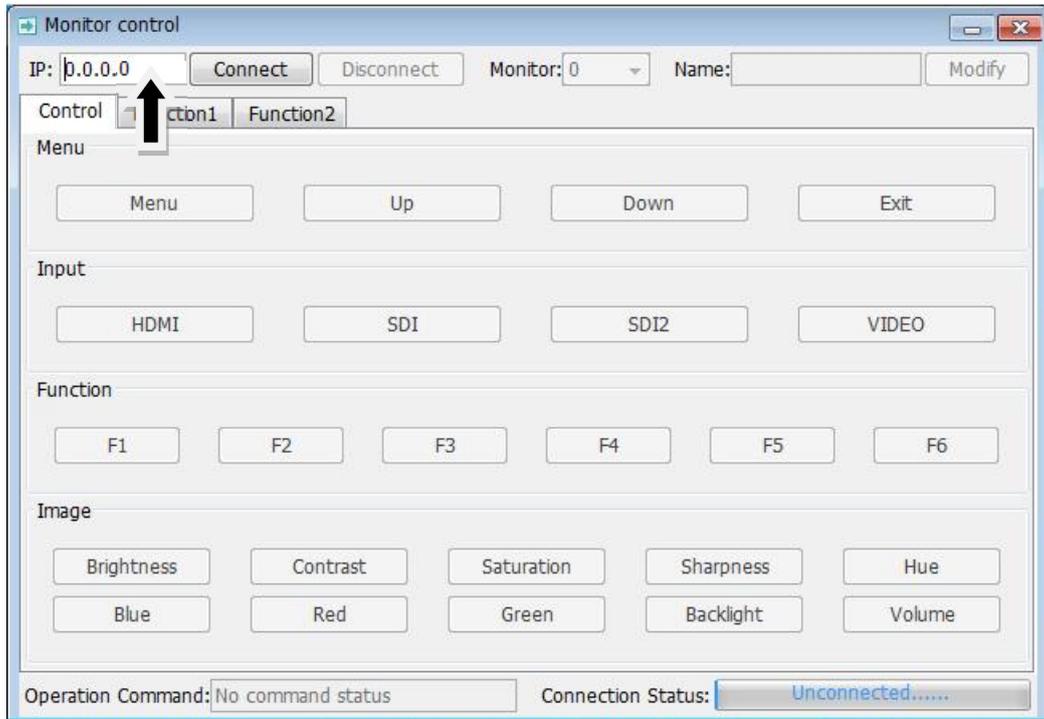
Password:123456,

Click Login In

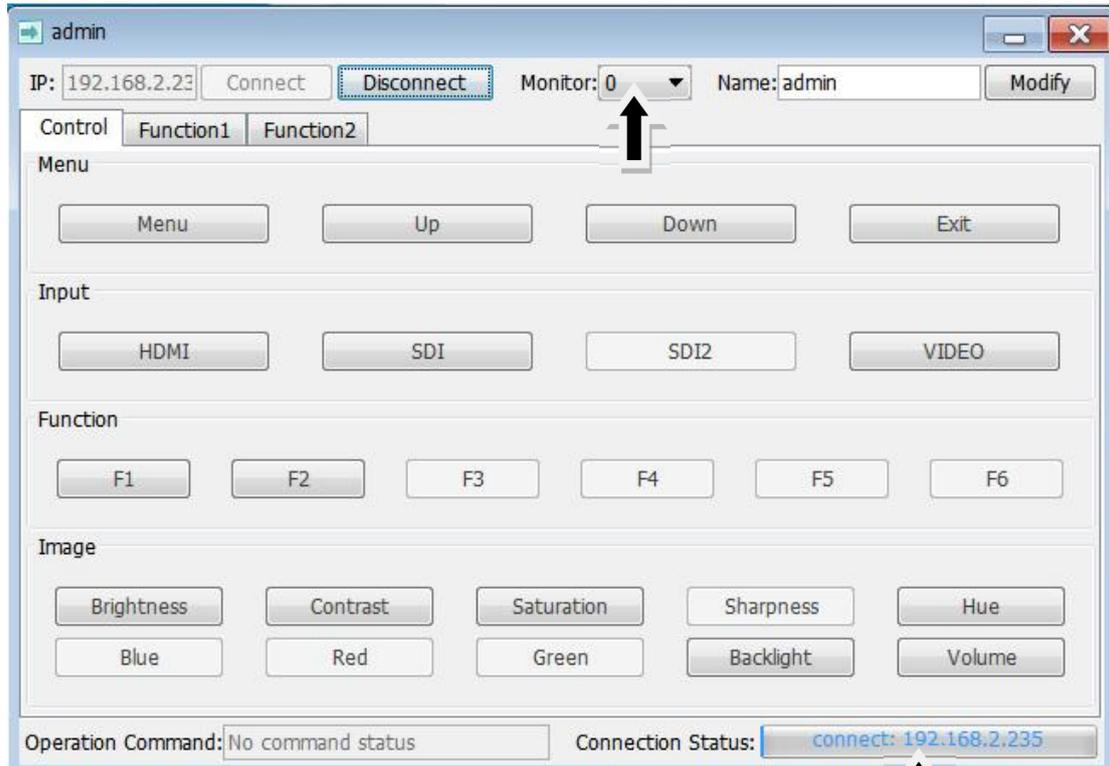
After login in, Click: Add monitor



Input IP address (The same as the IP address displayed on the monitor.)



Select the controlled monitor (number 0 control left monitor, number 1 control right monitor)



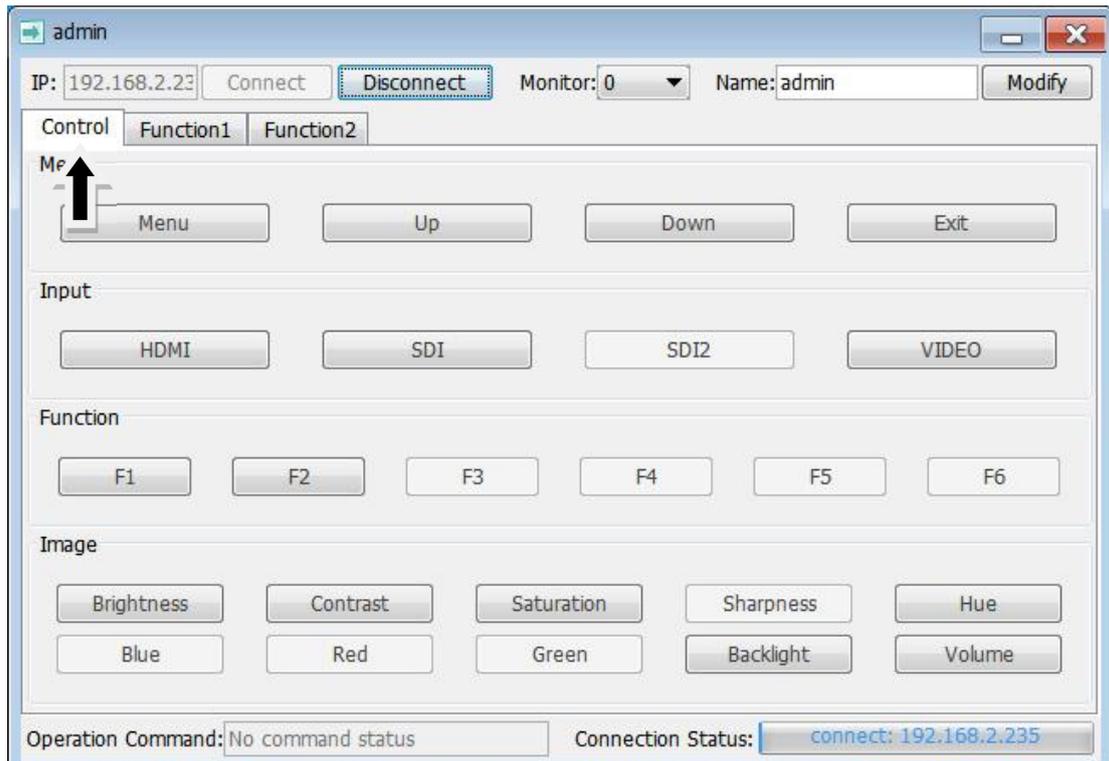
Check: Connection Status,

If connected, the IP address will be displayed. e.g:

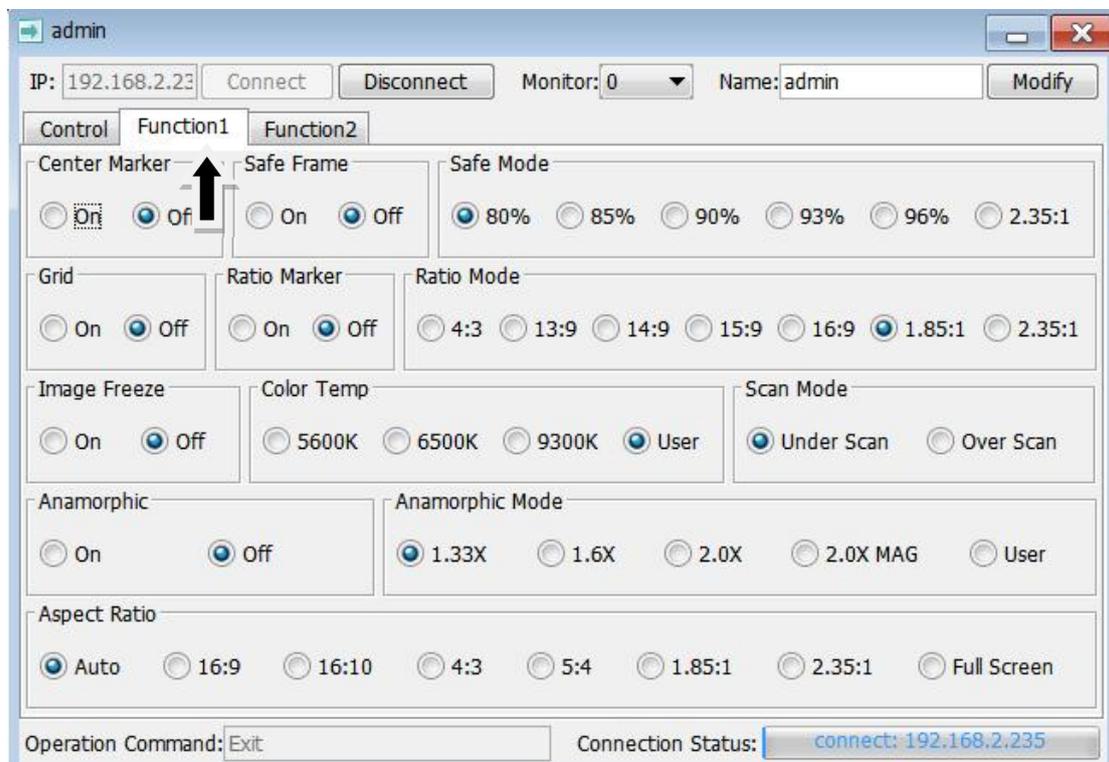


Then users can click the corresponding control bar to control and command the parameters:

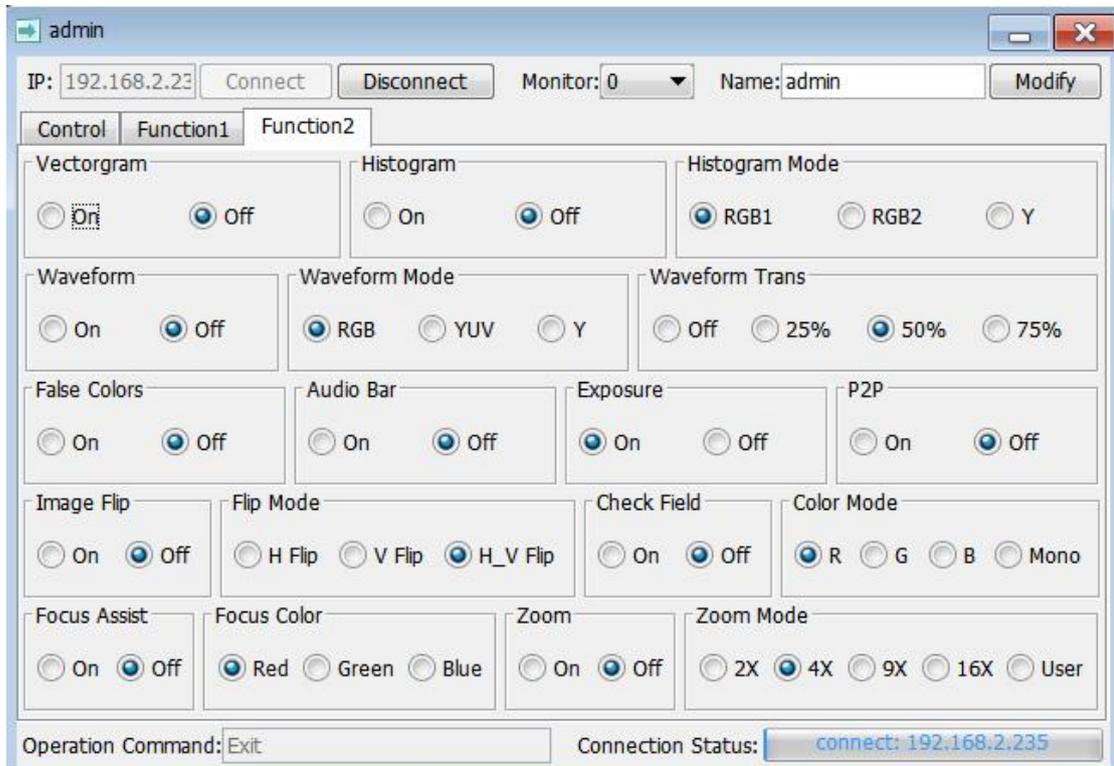
Control:



Function1:



Function2:



3. Menu Function Instruction



Functional Assist

 All Waves	<p>On, Off</p> <p>After turning on, waveform, vector, histogram and embedded audio will be shown.</p>
 Waveform	<p>On, Off</p> <p>Mode : RGB, YUV, Y</p> <p>This essential feature assists with the calibration of professional video cameras. It shows the overall brightness of the image assisting the video professional in correcting</p>

	<p>exposure. The waveform feature also checks the evenness of the lighting when lighting a chromakey or background.</p> <p>Waves Trans. : Off, 25%, 50%, 75%</p>
 Vector	<p>On, Off</p> <p>shows how saturated the image is and where the pixels in the image land on the color spectrum.</p>
 Histogram	<p>On, Off</p> <p>Mode: RGB1、RGB2、Y</p>
 Focus Assist	<p>On, Off</p> <p>Color : (Red, Green, Blue)</p> <p>Peaking Level :you can adjust the peaking level after turning on (1 ~ 10)</p>
 Embedded Audio	<p>On, Off</p> <p>The Audio Level Meters provide numerical indicators and headroom levels. The audio meter is green, and will turn yellow when exceeds -20dB, and turn red when exceeds -9dB.</p>
 Over Exposure	<p>On, Off</p> <p>Exposure Level : you can adjust the exposure level after turning on (10~100)</p>
 Check Field	<p>On, Off</p> <p>Mode : Red, Green, Blue, Mono</p>
 False Colors	<p>On, Off</p>
 Time Code (Only under SDI signal)	<p>On, Off</p> <p>Mode: LTC, VITC</p>



Mark

 Nine Grid	On, Off Color: Red, Green, Blue, Black, White, Gray
 Safe Frames	On, Off Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1 Color: Red, Green, Blue, Black, White, Gray
 Center Marker	On, Off Color : Red, Green, Blue, Black, White, Gray
 Ratio Marker	On, Off Mode: 4:3、13:9、14:9、15:9、16:9、1.85:1、2.35:1 Color: Red, Green, Blue, Black, White, Gray Modified Mark : 0~5



Display

 Scan Mode	Under Scan, Over Scan
 Aspect Ratio	Auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, Full Screen
 Anamorphic	On, Off Mode: 1.33X, 1.6X, 2.0X, 2.0X MAG, User Under the User , can be customized (1.20X~2.00X)
 Image Flip	On, Off Mode: H Flip, V Flip, H_V Flip
	On, Off

Zoom Mode	Mode: 2X、 4X、 9X、 16X、 User Under the User , can be customized (100%~200%)
 Image Freeze	On, Off
 P2P	On, Off



User

 LUT	On, Off After the LUT Switch is turned on, you can use the Lut (SLOG2, SLOG3, LOGC, VLOG) . Lut Import: Confirm After copying the 3D LUT file to the USB flash drive and inserting it into USB adapter cable (USB-female to mini-USB) press MENU button Confirm to import the 3D LUT file. Lut Table Show the 4 built-in Lut and the custom load Lut (up to 32)
 Display Adjustment	Backlight: 0~100 Brightness: 0~100 Contrast: 0~100 Saturation: 0~100 Tint: 0~100
 Color Adjustment	Color Temp.: 5600K, 6500K, 9300K, User Under the User , the red, green and blue of the image can

	be adjusted (0~255)
F Shortcut Key	<p>All Waves, Waveform, Vector, Histogram, Embedded Audio, Center Marker, Safe Frames, Nine Grid, Focus Assist, False Colors, Over Exposure, Anamorphic, Image Freeze, Check Field, Zoom, Image Flip, Aspect Ratio</p> <p>To set the 2 shortcut custom button F1, F2 on the panel</p> <p>e.g.: Press MENU button enter menu ,  /  ,  /  button select User and press MENU to confirm. Then F Shortcut Key and press MENU to confirm, select F1 and confirm to pop-up function items, then select one of them and press to confirm, the cursor will be changed to gray color after confirmed. Same setting for F2</p>



System

 Language	<p>English、简体中文、Español、Português、Français、Nederlands、Deutsch、日本語、繁體中文、한국어로、русский язык</p>
 OSD Option	<p>OSD Time: Off, 15Sec, 30Sec, 45Sec</p> <p>OSD Trans: Off, 25%, 50%, 75%</p> <p>No Signal: Red, Green, Blue, Black, White, Gray</p>
 Volume	<p>On, Off</p> <p>0~100</p>
 C	<p>Scroll the wheel to select Reset and press Confirm, the</p>

Reset	system back to original setting.
 Firmware Update	<p>Firmware Version (display the current firmware version)</p> <p>Firmware Update</p> <p>Confirm</p> <p>How to upgrade?</p> <ol style="list-style-type: none"> 1. USB flash drive format <p>Support FAT32</p> <ol style="list-style-type: none"> 2. After copying the update file to USB flash drive insert to Type-C to USB adapter and connect with the TYPE-C interface of monitor , press MENU key Confirm to update. 3. The monitor will turn off automatically after finishing, please turn on manually 4. Check the firmware version whether the latest one

4. Custom LUT Load Instruction

4.1. USB flash drive format FAT32

4.2. Max Files Limit Maximum 32 Lut files

4.3. File requirements

- The LUT file format suffix should be **.cube**
- Single file not exceeded to 7.9Mb
- Support LUT-3D-Size 16,17,32,33,64,65

Remark: LUT file name must be English or Arabic numerals

4.4. Steps for loading

4.4.1 Make sure USB flash drive insert to Type-C to USB adapter and connect with the TYPE-C interface of monitor

4.4.2 Enter main menu  --LUT--**Lut Import** -- **Confirm** to load

the monitor will auto detect the USB flash drive

If there is valid lut file in USB flash drive, the monitor will load lut files and show “[n] name. The [n] shows the quantity number. The “name” should in lut files’ name. If load successful, the screen will show “complete[n]”. [n] Stands for the quantity number for lut files should under 32.

PS: How to clear up the imported LUTs?

Insert a empty USB flash drive to the monitor, enter main menu  --LUT--Lut **Import -- Confirm**, the imported LUTs will be clear up.

5. Support Signal Formats

Signals	Support signal formats
Video	PAL/NTSC auto recognize
HDMI	480i /480p /576i /576p 720p(60/59.94/50/30/29/25/24/23.98) 1080i(60/59.94/50) 1080p(60/59.94/50/30/29.97/25/24/23.98) 3840×2160p (23.98/24/25/29.97/30/50/59.94/60) 4096×2160p (23.98/24/25/29.97/30/50/59.94/60)
12G-SDI	1080i (60/59.94/50) 720p (60/59.94/50/30/29.97/25/24/23.98) 1080p (60/59.94/50/30/29.97/25/24/23.98) 3840×2160p (23.98/24/25/29.97/30/50/59.94/60) 4096×2160p (23.98/24/25/29.97/30/50/59.94/60)

6. Parameters

Panel Size	7" IPS LCD×2
Resolution	1920 × 1200 pixels
Pixel Pitch	26.25(H)× 3× 78.75(V) um
Color Depth	8bit
Aspect Ratio	16:10
Brightness	450 cd/m ²
Contrast	1200:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Input Signal	12G-SDI, HDMI, Video, Audio(L/R), Tally
Output Signal	12G-SDI, HDMI, Video
Audio	3.5mm Audio Jack
Other Interface	TYPE-C (Firmware update/ LUT import)
Power Input	DC 12V(suitable for 5.5x2.1mm power plug), 4-pin XLR
Input Voltage	DC 9~24V
Power Consumption	≤ 26 W
Special Function	TALLY indicator
Working Temperature	- 10~60℃
Storage Temperature	- 30~70℃

Unit Size	482 L × 130 H × 30.5 D mm
Unit Weight	≈1890g

7. Trouble Shooting

If there is any problem when using the unit, please try following ways to inspect and solve. Please contact us if you still can not solve it or have other problems.

● Without image display

Trouble shooting

◆ Video cable off or connect incorrectly	Check the quality of the cable, make sure the correct input interface
◆ Without video signal input	Check the signal source and output interface connect is correct or not
◆ Monitor is not be powered on	Check whether the power is connected, click “ 

• Image/color display abnormal Trouble shooting

◆ Video cable poor contact	Change the video cable, try again
◆ Video signal interfered by external environment	Move to another environment to try again
◆ Video input signal amplitude too low	Check signal source video output, or change signal source and have a try.
◆ Menu color saturation adjustment closing	Enter menu to check color, or reset to factory settings
◆ Check Field set in mono or black & white	Reset Check Field, back to the color
◆ Image deformation	Reset the image ratio

• Earphone without sound Trouble shooting

◆ Audio cable off or connection properly	Confirm connected with the corresponding input port
◆ Volume adjustment was closed	Reset the volume control and adjust to a proper position.
◆ HDMI cable poor Connected	Check the quality of cable, or change cable and have a try
◆ No sound after switch video signal	Check whether there is an AUDIO signal input in AV Mode.

■ **Remark:**

★If there are still other problems, please contact with our related technical persons.

★If there are changes without prior notice.