# Dual Rack Mount Multi-Functional High Resolution LCD 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 high brightness, low power consumption, stable performance, no radiation, strong compatibility, and adjustable color temperature control etc. Advanced features include Peaking Focus, Center Marker, Screen Marker, Image Flip, Check Field Color Temperature Adjustment etc. It is an ideal NLE (Nonlinear Edit) matching monitor.

To meet different customers' needs, our monitor has the serial digital interface signals SDI, 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.
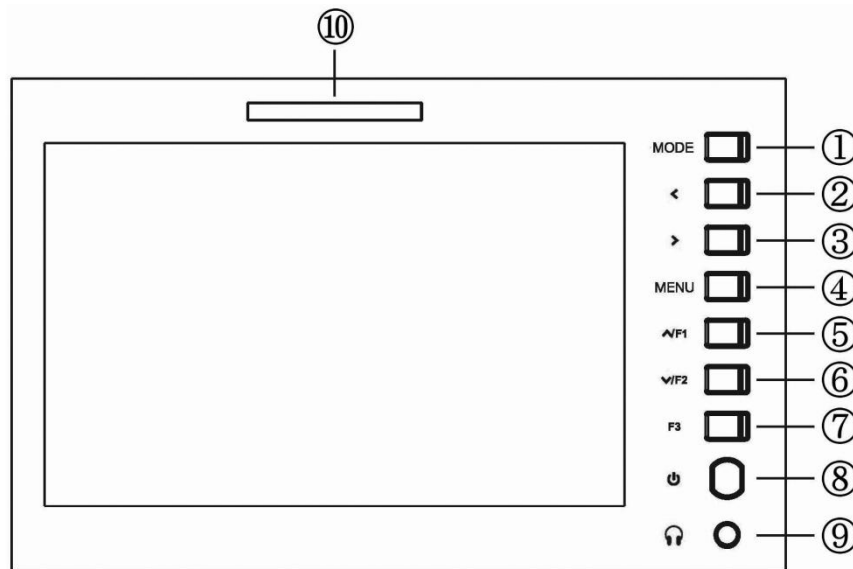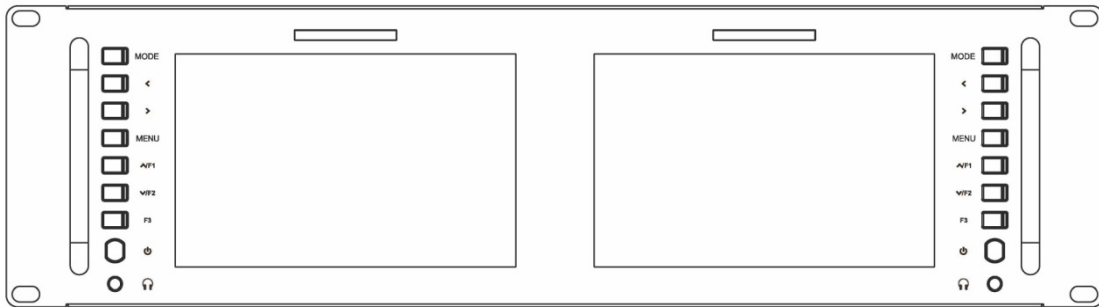
# Product Feature

◆ Focus Assist Function

◆ Screen Marker, Center Marker (cross mark) display setting

◆ Screen Marker: 96%, 93%, 90%, 85%, 80%, 2.35:1

◆ Image Freeze: The current picture still (capture function)

◆ Image Flip: H/V Flip, H Flip, V Flip of the image around flip

◆ Check Field: To switch among Mono, Red, Green, Blue

◆ P2P: The display mode that makes the resolution of the image is consistent with display of the physical resolution.

◆ Aspect Ratio: To change the display to ratio Panorama, Auto., Zoom 1, Zoom 2, 4:3, 16:9.

◆ Image zoom function can set Zoom All, U/D Zoom, L/R Zoom.

◆ Panel buttons (F1 ~ F3) function custom settings

◆ LED backlight, Image display more brighter, screen does not flicker.

◆ Front panel stereo earphone output.

◆ Multiple signal output port, flexible use.

◆ Can set the monitor menu and functions through Ethernet connection.

# CONTENTS

# 1. Product Description

## 1.1 Front Panel Features



1. **MODE:**   Input signal selection and confirm.

2. **＜**   : Volume down; in menu operation, it is for the selection of the menu function or menu analog decrease.

3. **＞**   : Volume up; in menu operation, it is for the selection of the menu function or menu analog increase.

4. **MENU:** Menu button, enter or exit menu.

5. ∧**/ F1 :** No menu display, it is F1 button; when enter into menu bar, it is for the up item selection.

6. ∨**/ F2 :** No menu display, it is F2 button; when enter into

menu bar, it is for the down item selection.

7. **F3**  : Custom button F3

8. ⏻  : Power switch

9. 🎧  : Earphone jack port.

10. TALLY indicator

## 1.2 Rear Panel Features
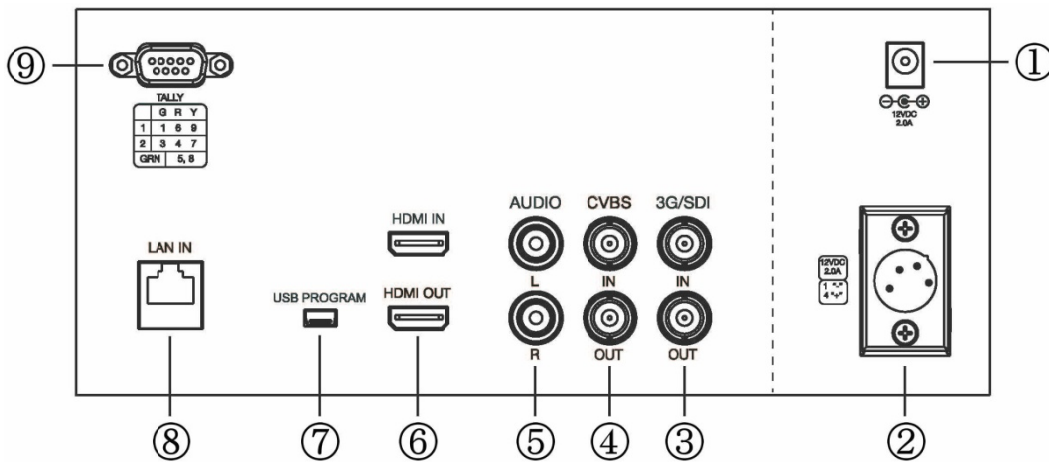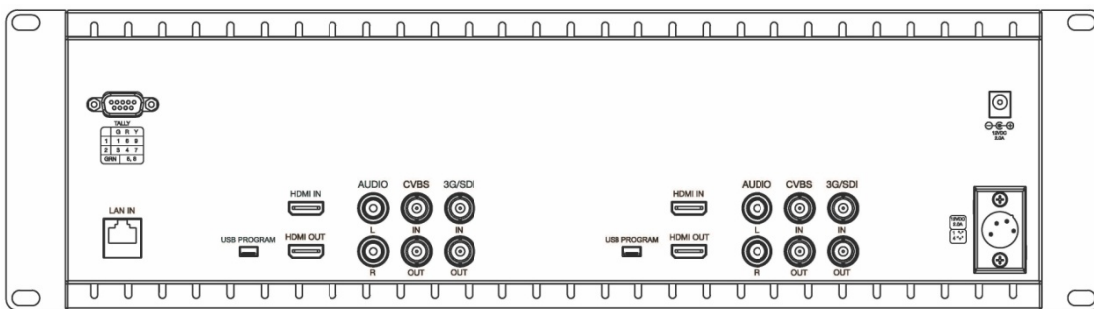


1. 🔌 **12VDC 2.0A** : DC power input port

2. 4-pin XLR DC12V power input

3. **3G/SDI:** (Up) SDI serial data input

    (Down) SDI serial data output

4. **CVBS :** (Up) Composite video broadcast signal input

    (Down) Composite video broadcast signal

    output

5.  **AUDIO:** (Up) Audio signal L stereo input

(Down) Audio signal R stereo input

6.  **HDMI:** (Up) High definition multimedia interface input

(Down) High definition multimedia interface

output

7. **USB PROGRAM:** USB upgrade port

8.  **LAN IN:** Ethernet LAN Connector

9.  **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**
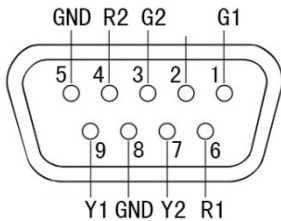
**no less than 20W DC 9-24V.**

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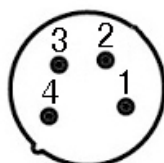
| Pin number | Signal |
|------------|--------|
| 1 | GND |
| 2 | No connection |
| 3 | No connection |
| 4 | +12V |

## 1.4 TALLY Indicator Connection



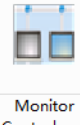| Indicator Color | Pin Connection | |
|---|---|---|
| | 1 Screen | 2 Screen |
| Green | 1-5 | 3-8 |
| Red | 6-5 | 4-8 |
| Yellow | 9-5 | 7-8 |

**GND port 5 and 8 is sharing**

## 2. Ethernet Connection

Our monitor is equipped with Ethernet interface, and users can connect the pc computer 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:
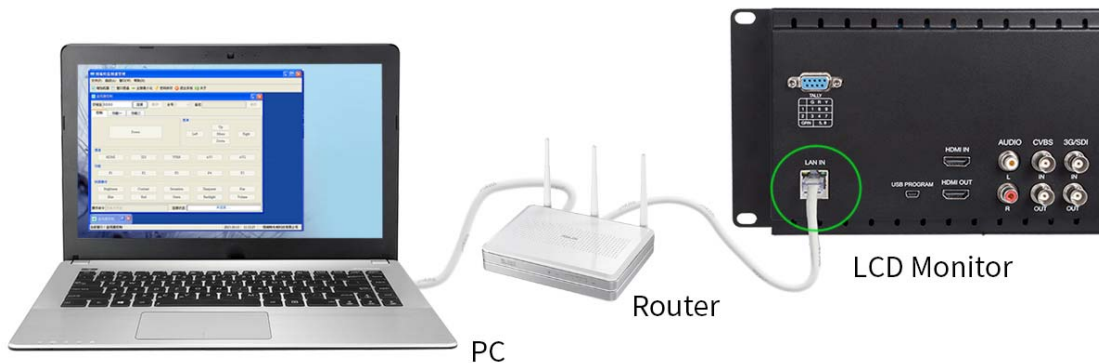


Connect the LAN port on the back of the monitor to the network. After connection, the monitor will display the same IP address with that device.

Turn on pc computer, Open  GPIO  , Click  Monitor Control.exe

Then, Input: Username/ Password, Click Login In
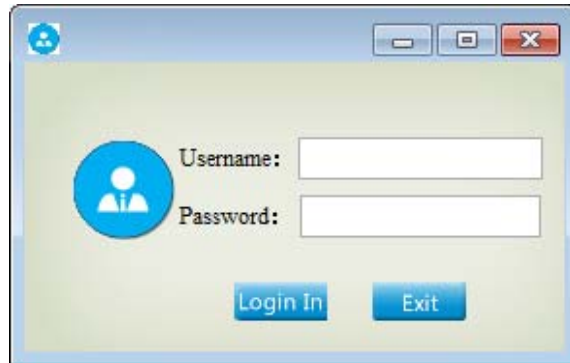


After login in, Click: Add monitor
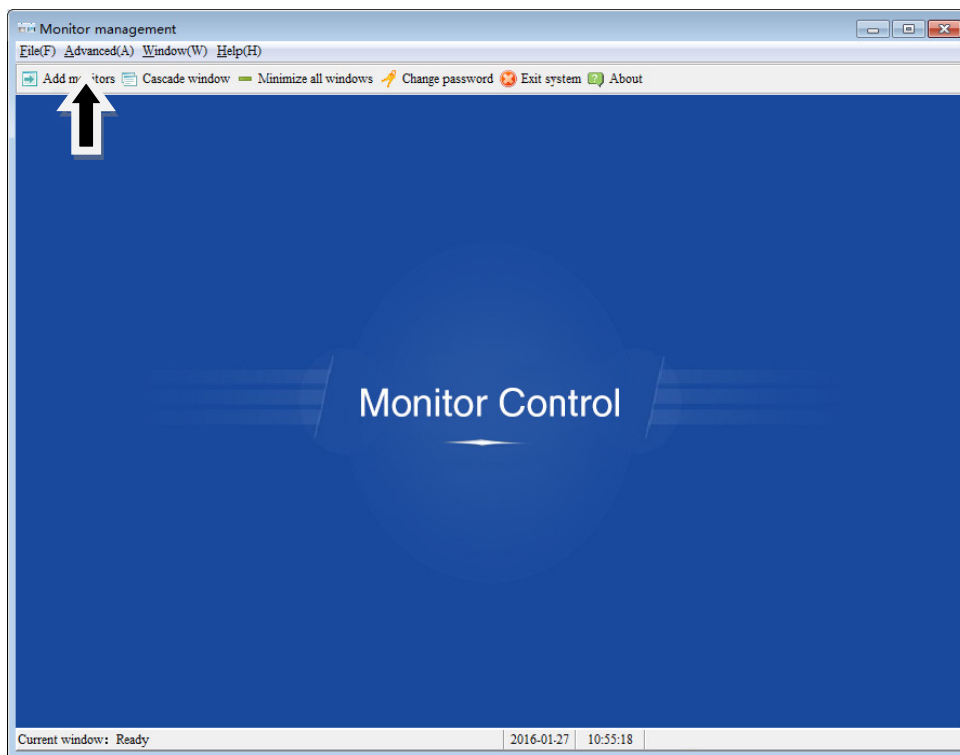


Input IP address (The same as the IP address displayed on the

monitor.)
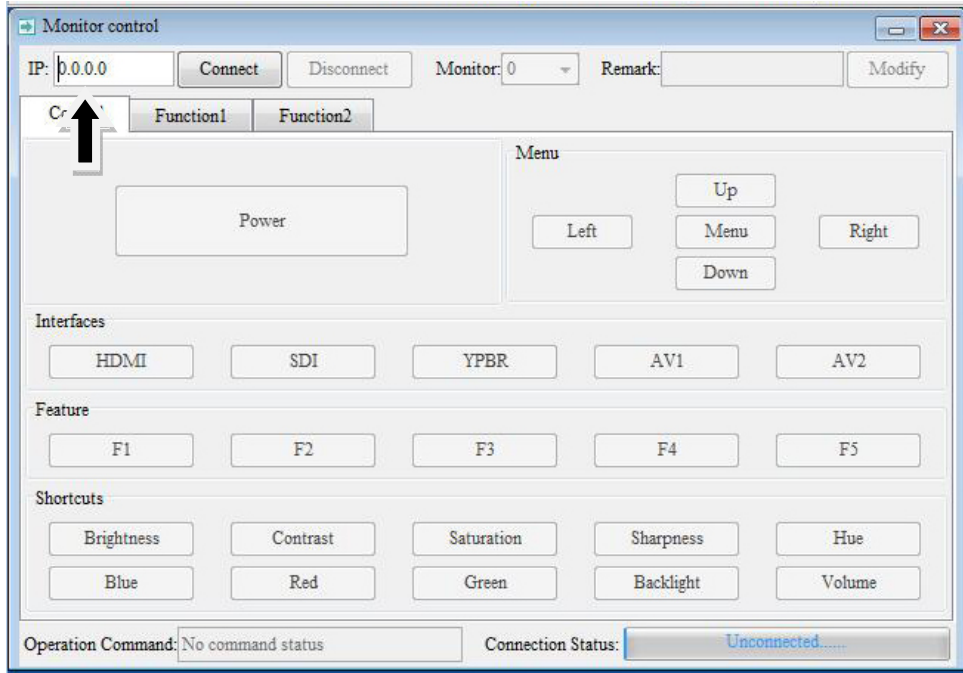
Select the controlled monitor (Can check the display No. on the

monitor screen)



Check: Connection Status,

If connected, the IP address will be displayed.

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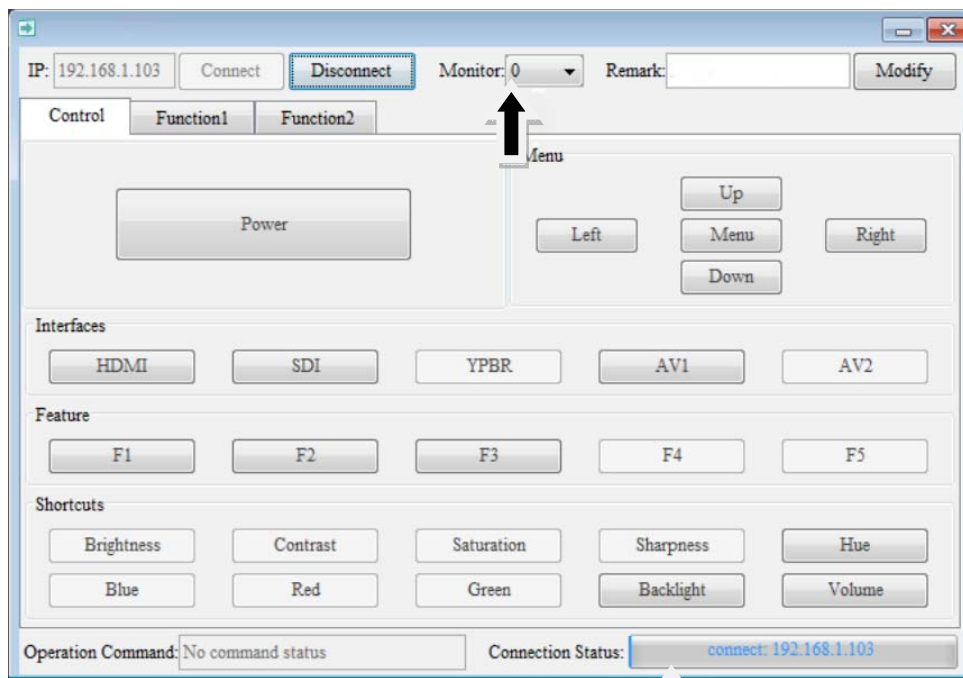
## Control:
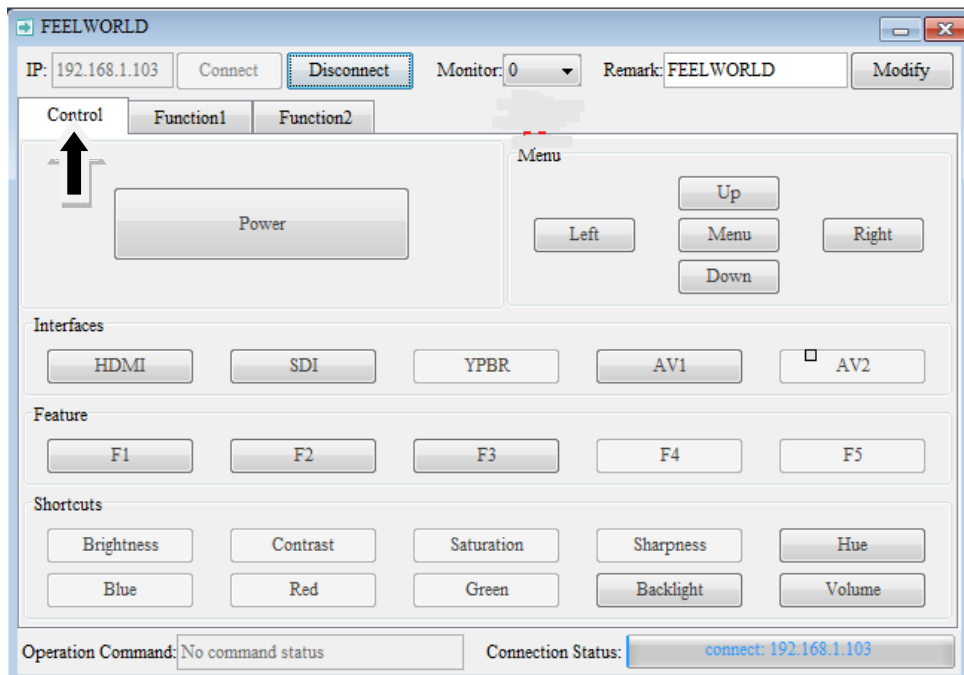


## Function1:
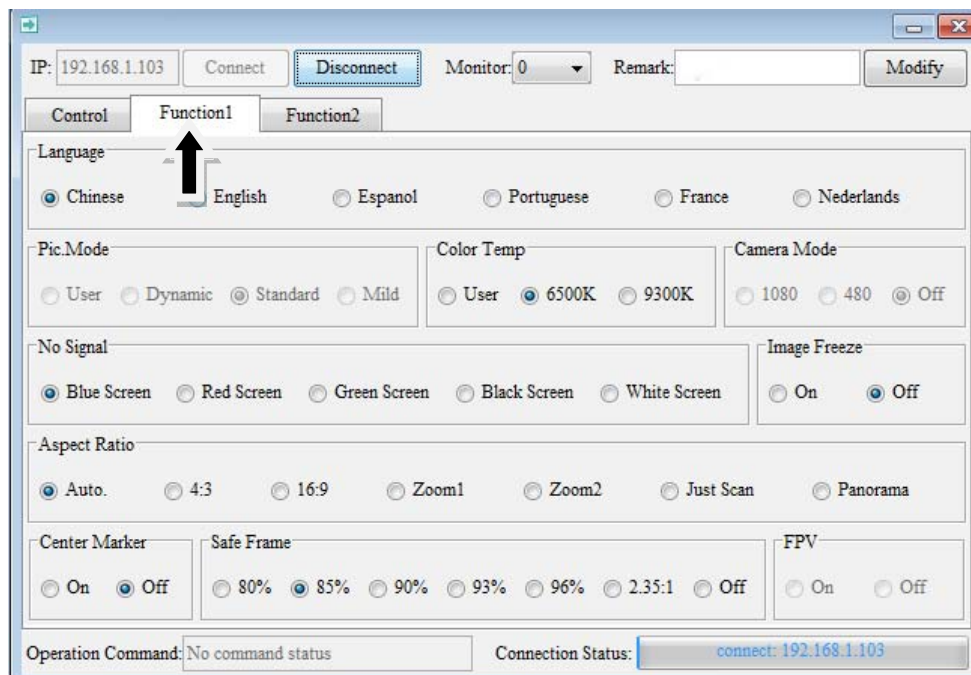
## Function2:
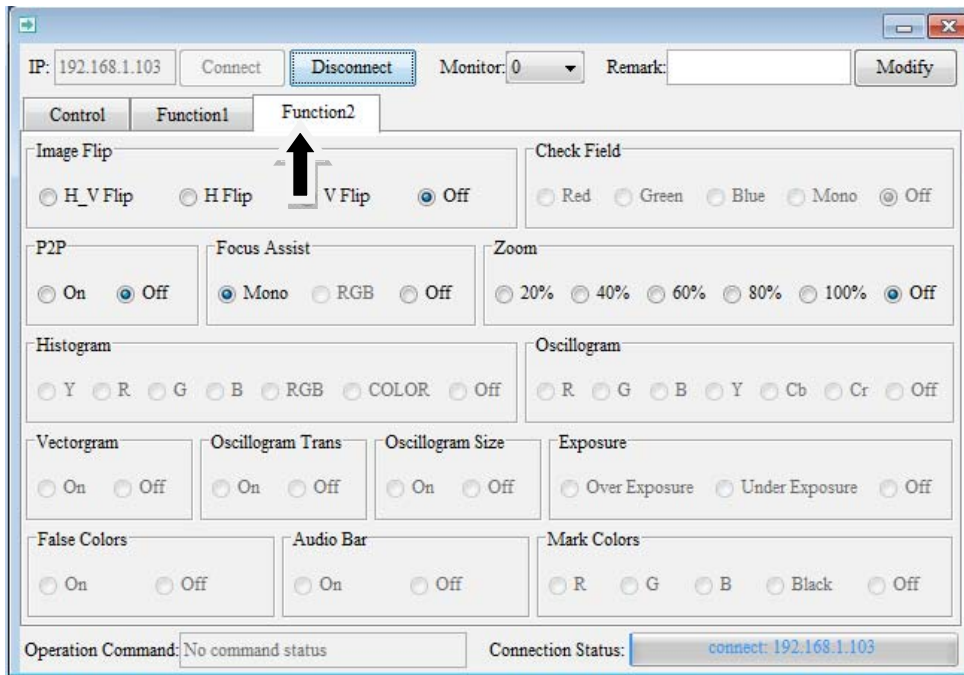
## 3. Button Operation Instruction

**(Control the corresponding screen)**

**MODE** ⟹ AV, SDI, HDMI signal input selection.

< ⟹ Volume down; In menu operation, it is for the selection of the menu function or menu analog decrease.

> ⟹ Volume up; In menu operation, it is for the selection of the menu function or menu analog increase.

**MENU** ⟹ Enter or exit menu.

∧**/F1** ⟹ No menu display, it is F1 button; when enter into menu bar, it is for the up item selection.

∨**/F2** ⟹ No menu display, it is F2 button; when enter into menu bar, it is for the down item selection.

**F3** ⟹ Custom button F3.

⏻ ⟹ Power switch.

# 4. Menu Function Introduction

 **Image Color (including 2 pages)**
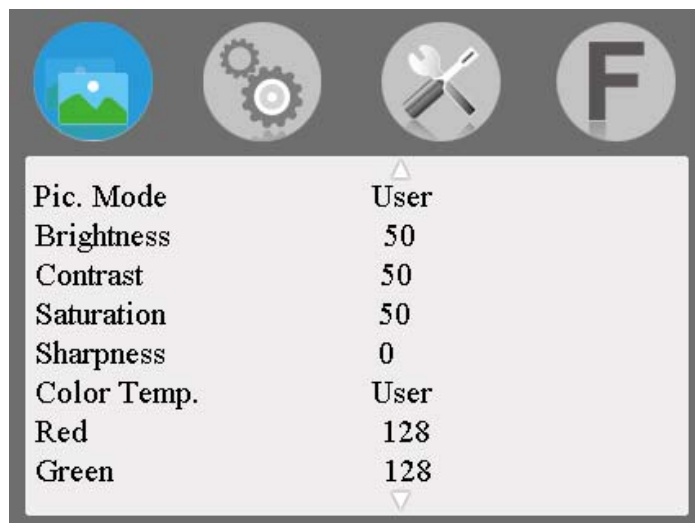




※ **Pic. Mode:    Standard, Dynamic, Mild, User.**

Select '**user**' to adjust Brightness, Contrast, Saturation,
Sharpness.

※ **Brightness:    0～100.**

To adjust image's brightness.

※ **Contrast:      0～100.**

To adjust the brightest and the darkest ratio of the image,

please note the sense of picture when adjust, proportion too high or too low will make the picture lose the color.

※ **Saturation:   0～100.**

To adjust color concentration.

※ **Sharpness:   0～100.**

Also called 'Resolution', is an indicator for the image plane definition and image edge sharpness. If sharpness is higher, then the details contrast on the image is higher, the image is more clearly.

※ **Color Temp.:   6500, 9300, User.**

When select '**user**', adjust the R/G/B to meet the different user's requirement for the different Color Temp.

※ **Tint:        0～100.**

On NTSC video mode, color tint is adjusted by Tint.

 **Setting (including 2 pages)**

● **Menu of Page One**



※ **Language:　　English　中文　　Español　　Português**

**　　　　　　　　Français　Nederlands　Deutsc 日本語**

　Language is for OSD.

※ **Aspect Ratio: Panorama, Auto., Zoom 1,**

**　　　　　　　Zoom 2, 16:9, 4:3**

　To change the display ratio

※ **No Signal:　　Black Screen, White Screen, Red**

**　　　　　　　Screen, Green Screen, Blue Screen.**

　Color options of screen background when no signal.

※ **OSD Trans.: Low, Middle, High, Off**

　To adjust the level of OSD transparency.

※ **OSD H:　　　0～100.**

　To adjust the OSD position in horizontal.

※ **OSD V:　　　0～100.**

　To adjust the OSD position in vertical.

※ **Zoom All:　　0～100.**

　Select this function, press ＜/＞ button to adjust the

image to Zoom in or Zoom out.

※ **OSD Time: Off, 10Sec, 20Sec, 30Sec.**

The function is to adjust the menu time.

● **Menu of Page Two**



※ **U/D Zoom:　0～100.**

Press ＜/＞button to adjust the proportion of the

image Up and Down to Zoom In or Zoom Out.

※ **L/R Zoom:　　0～100.**

Press ＜/＞ button to adjust the proportion of the

image Left and Right to Zoom In or Zoom Out.

※ **Backlight:　　0～255.**

To adjust the monitor backlight brightness.

※ **USB Upgrade**

When need to upgrade the software, copy the file to the

U disk, then through the USB cable to connect with

upgrade USB port, then press ＞ button to confirm. After

upgrade, monitor will automatically restart.

## ※ Reset

Press ＞button to confirm, all monitor analog

data back to original setting.

 **Function**
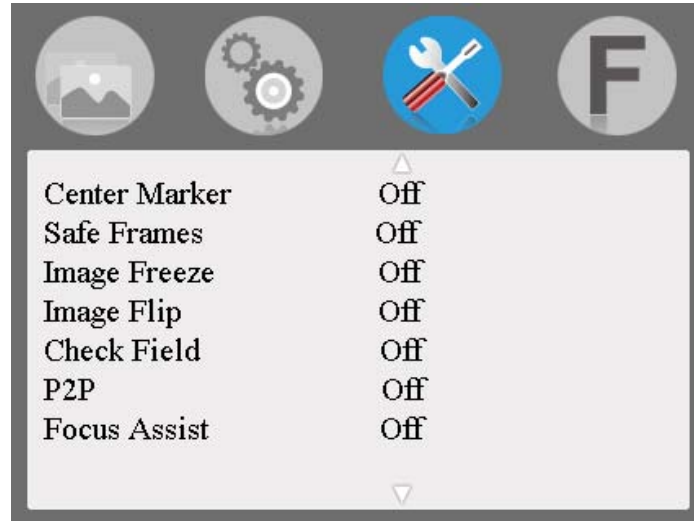


## ※ Center Marker:　On, Off.

To set center mark (cross mark) display

## ※ Safe Frames:　off, 96%, 93%, 90%, 85%, 80%, 2.35:1

To adjust screen marker

## ※ Image Freeze:　On, Off.

The current picture still (capture function)

## ※ mage Flip:　Off, H_V Flip, H Flip, V Flip.

The H_V Flip, H Flip, V Flip of the image around flip**.**

## ※ Check field:　Mono, Red, Green, Blue, Off.

Displays the picture in monochrome (black & white) or in

individual primary colors.

## ※ P2P:　Off, On

The display mode makes the resolution of the

image consistent with display of the physical resolution.

※ **Focus Assist:   Off, On**

Under HDMI input, select this function, Peaking

(Superimpose red highlight over parts of the

monochrome image in focus).

 **Shortcut Button Setting**



| | |
|---|---|
| F1 | Center Marker |
| F2 | Safe Frames |
| F3 | Image Freeze |
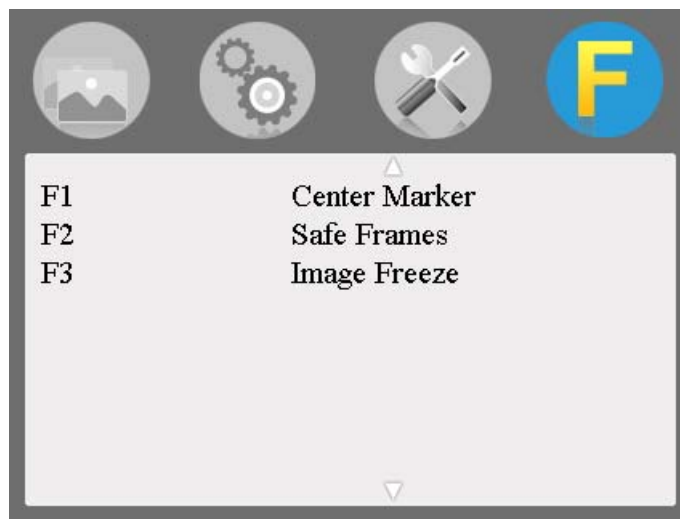
※ **F1:     Center Marker, Safe Frames, Focus Assist,**
**Image Flip, P2P, Image Freeze, Check Field,**
**Aspect Ratio, Backlight**

Choose F1, then press ＜ / ＞ button to pop up

function bar, can select (Center Marker, Safe Frames,

Focus Assist, Image Flip, P2P, Image Freeze, Check

Field, Aspect Ratio, Backlight), then press ∨/∧button

to select one of options as definition function. Press

"MENU" button to confirm and press ∨ button back to

next F2 custom setting.

※ **F2:** Customized button, see F1

※ **F3:** Customized button, see F1

## 5. Support Signal Formats

| Signals | Support signal formats |
|---|---|
| Video | PAL/NTSC auto recognize |
| HDMI | 480i/576i/480p/576p<br>720p(60/59.94/50/30/29/25/24/23.98)<br>1080i(60/59.94/50)<br>1080(60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) |
| SDI | 480i/576i<br>720p(60/59.94/50/30/29/25/24/23.98)<br>1080i(60/59.94/50)<br>1080p(60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) |

## 6. Parameters

| | |
|---|---|
| Panel Size | 7″ IPS LCD×2 |
| Resolution | 1280 × 800 pixels |
| Dot Pitch | 0.117（H）× 0.117（V）mm |
| Aspect Ratio | 16:10 |
| Brightness | 400 cd/m² |
| Contrast | 800:1 |
| Response Time | Tr=14ms; Tf=11 ms |
| Viewing Angle | 89°/89°(L/R)   89°/89°(U/D) |
| Backlight | LED |
| Input Voltage | DC 9～24V |

| Input Signal | 3G-SDI, HDMI, Video, Audio(L/R) |
|---|---|
| Output Signal | 3G-SDI, HDMI, Video, Stereo Headphone |
| Power Consumption | ≤ 20 W |
| Special Function | TALLY indicator |
| Working Temperature | - 20～55℃ |
| Storage Temperature | - 30～60℃ |
| Unit Size | 482.6 L × 130.0 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 " ⏻ " button to confirm. |

| ◆ Supply voltage instability | The power adapter plug is poor connected with the socket |
| --- | --- |
| ◆ self-contained power supply, polarity connect inversely | Reference "Power Input Way" and reconnect |

| ● **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.