



KCM series 4K LCD Monitors

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# USER MANUAL

V1.3

Shenzhen Konvision Technology Co., Ltd  
<http://www.konvision.com>

## **About This Manual**

The instructions in this manual are for KCM Series 4K LCD monitors.

The following description use model KCM-2460W pictures.

Please confirm the model number of the device before reading this manual.

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## Notes

For the safety use of products, please read the following instructions regarding the installation, use and maintenance carefully.

. Please read the product safety and operating instructions carefully before the product is operated.

. Please keep the safety and operating instructions for future reference.

. Please pay strict attention to the warnings and implement the products according to the operating instructions closely.

. All operating instructions should be strictly enforced.

1. Please use the power cord recommended by manufacturer.

2. Please do not place heavy objects on the power cord.

3. Please do not expose the monitors to rain, humid, dusty places.

4. Please do not place vessels with liquid (such as cups, beverage bottles) on the monitor.

5. Please do not place this product in high heat places.

6. Please make sure the earth terminal is good in order to avoid electric shock.

7. Please do not open the back cover to avoid electric shock. Please contact professionals for service need.

8. If there is no image or sound, please unplug the power cord from the AC outlet immediately. Please consult professionals if there still have problems after examining carefully.

9. Do not place this product at unstable places such as cars, shelves or tables, as it is easy to make the product falling down, may cause severely hurt to children and adults and also damage to the product.

10. Please do not touch the power plug with wet hands, as it will cause electric shock.

11. Please do not expose the LCD panel in direct sunlight for a long time, it will result in damage or aging of the LCD panel.

12. Please display this product at a suitable temperature and humidity place.

13. Please do not spray any liquid things and/or add any objects into the monitor, it might cause voltage instability and short-circuit, also can easily cause fires and blackouts.

14. If do not use the device for a long time, please unplug the power cord from the AC outlet.

15. Please keep not less than 5cm space around the vents while using the monitor, in order to obtain good heat dissipation effect.

## **Security**

### **Screen Maintenance**

Please follow the below guidelines carefully to prevent discoloration, stains and scratches on the screen:

- Avoid striking the screen with any object.
- Do not wipe the screen hard.
- Do not wipe the screen with solvents such as alcohol, thinner or gasoline.
- Do not spray detergent or other cleaners on the monitor or LCD panel, as it may cause fault because of water droplets into the monitor.
- Do not write on the screen.
- Do not paste or stick any viscous markers on the screen.

Screen may be cleaned by gently wiping with lint free cloth to remove dust. For the more difficult cleaning, use lint free cloth that has been very lightly dampened with detergent, then dry any excess moisture from the monitor or LCD panel immediately to prevent damage.

### **Cabinet Maintenance**

Please follow the guidelines below to prevent potential damage.

- Do not wipe the cabinet with solvents such as alcohol, thinner or gasoline.
- Do not use any pesticides and/or other volatile substances.
- Do not allow prolonged contact with rubber or plastic.
- Do not wipe the cabinet hard. Use a soft, lint free cloth to clean. If the cabinet cleaning is more difficult, use lint free cloth that has been very lightly dampened with detergent and then dry it to wipe.

## **Installation**

- Keep adequate air circulation to prevent device internal overheating. Please do not place the product on the surface of some certain objects (such as blankets, carpets, etc.), as these objects

may block the vents.

- Please keep the device away from heat generating sources, such as radiator, heaters and air duct, also keep it away from much dust or mechanical vibration place.

### **Rack mount Installation**

- For rack mount installation, please keep 1U space from both top and bottom to make sure adequate air circulation, or install an external electric fan. Please follow the instructions and install with the rack mounts provided by manufacturer.

### **Transportation**

- This monitor is precise equipment and need professional packing materials to transport. So do not to use packing materials provided by suppliers except KONVISION or its authorized packing material suppliers.

**When the following situations occur, please turn off the power, do not insert the plug and contact a professional service staff to deal with timely.**

- A. This product smells smoke and off-flavor.
- B. When this product displays abnormal operating conditions, such as there is no picture or sound.
- C. When any liquid is splashed into the product or product dropped.
- D. When the product soaked or fall into the water.
- E. When the product has been damaged or other damage circumstances.
- F. When the power cord or plug is damaged.

### **The following does not belong to failures:**

1. If the static image displayed too long, it will have residual image, which should be attributed to the characteristics of LCD display but not a failure. Residual image will disappear automatically after a period.
2. If this device used in a cold environment, the screen may appear residual image. This is not a product failure, when the monitor temperature changes, screen will return to normal conditions.

3. LCD screen may appear tiny spots (red, blue or green), this is not a fault, LCD screens are manufactured with high precision technology, and a small number of pixels may not be able to show intermittent.

4. Screen and cabinet will become warm gradually during operating.

## **Features**

### **High Brightness LCD Panel**

- High brightness, high contrast, high-speed response and wide viewing angle technology make the monitor can be used under variety of lighting conditions.

### **High Brightness Tally Indicator**

- The tally function via GPT or LAN port, with two colors red and green.

### **Auto-detection of all color system (PAL, NTSC, SECAM)**

- This unit detects the color system automatically.

### **3D Video Decoder**

- Process 3D decoding on VIDEO signals, to realize better reduce cross color.

### **Motion-Adaptive Interlace to Progressive**

- It converts interlaced video to progressive video by motion detection, reduce the serrated image.

### **10BIT signal processing**

- Signal input, signal processing and image output are 10bit data processing, to ensure the details display of the image.

### **Support Multiformat SDI Signals**

- The SDI interface supports SD-SDI, HD-SDI, dual link HD-SDI and 3G SDI inputs.

### **SDI Input**

- Support 4K signal consists of 4 3G-SDI inputs.

- Support single channel 3G / HD / SD-SDI video signal display on the screen full screen.

### **HDMI/DVI Input**

- Support 4K signal consists of 4 HDMI inputs.

- Support single channel HDMI/DVI video signal display on the screen full screen

### **Color Temperature**

- Different color temperatures can be selected freely

### **Image Size Setting**

- You can set the monitor display mode to full screen, 1: 1, and scale by original image based on the input video signal

### **Marker Setting**

- Show frame borders, center marker, and safety area, etc

### **Color Space**

- Color space include: Rec 709、EBU、 SMPTE C、 DCI P3、 Rec2020、 USER1、 USER2.

### **Color Calibration**

- This enable to calibrate imported color data of the image being measured by color analyzer. (Please contact the dealer for specific operation)

### **Scan Mode**

- Scan mode includes Full Scan, Over Scan. Full scan displays the entire area of the input signal; Overscan displays the 95% area of the input signal.

### **Audio level meter (UV+PPM)**

- Show the audio level meter (UV+PPM) for SDI embedded audio.

### **Waveform**

- Display input signal waveform and color scope for SDI signal input monitoring. It includes luminance waveform, CbCr waveform. Luminance waveform will mark with red if over the value specified by user.

### **Focus Assist**

- Focus assist is to aid the cameraman focus on the main body by marking the sharpest edge of the image with red.

### **False Color**

- False color can intuitively observe and calculate illumination level in the image, luminance and illumination values display mapping as luminance level, from darkest to brightest, display blue, cyan, green, yellow, orange and red in turn.

### **Overexposed Display**

- Overexposure displays the part of the screen that exceeds the user-specified range (default 95%) in the form of covered zebra crossing, helping the photographer to control the light accurately so



as not to over-expose the screen.

**Vector Scope**

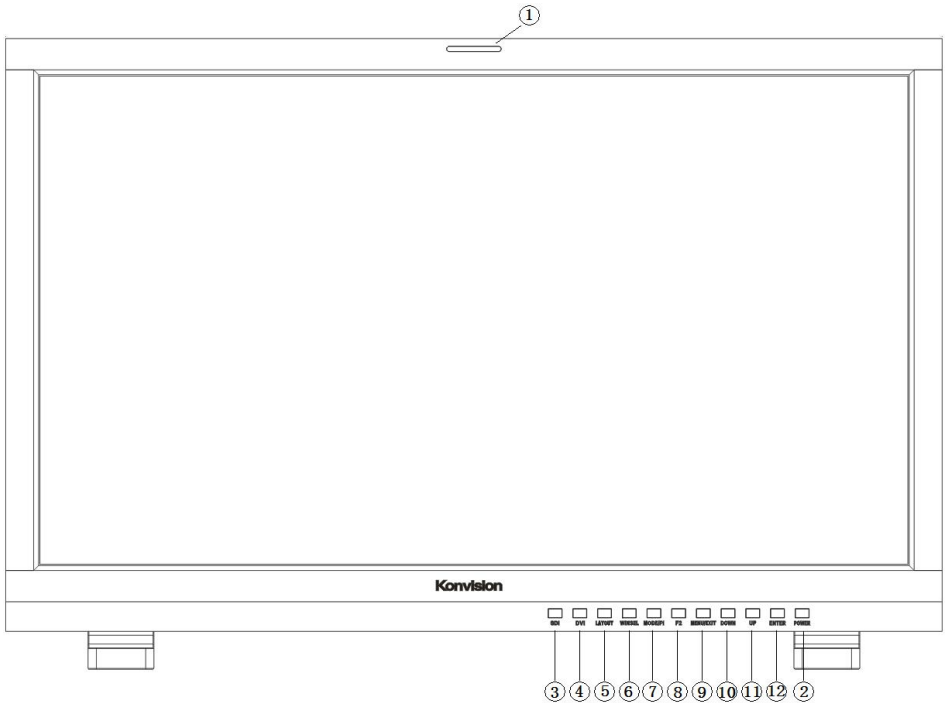
- UV vector analysis can be performed on the input color bar signal. The vector coordinate UV coordinates represent the magnitudes of the U and V components, respectively, and the vector calibration circle indicates the phase (hue) of the chrominance signal.

**Time Code Display**

- Time code display is to display SMPTE time code (LTC, VITC1 or VITC2) under SDI input for identifying and synchronizing video data streams.

**Remote Control**

- Available to connect to the remote terminal to operate the equipment directly, select the input signal, longitudinal mode settings and tally indicator, etc.

**Parts and Functions****A. Front View****(1) Tally Indicator**

Tally indicator control in two ways:

1. GPI Interface (see the control method at GPI interface description behind)
2. LAN Interface: via “Konvision Device Controller” software to control the Menu  
(Please contact the dealer for “Konvision Device Controller” software)

**(2) Power Button and Indicator**

When the external AC power supply with electricity, the indicator light is red. Press this POWER button to power on the monitor, and the indicator light turns blue. Press this button for more than 2 seconds to turn off the monitor, indicate light turns to red.

**(3) SDI Button and Indicator**

Press this button to select the current input source for SDI signal input, the indicator is blue.

**(4) DVI Button and Indicator**

Press this button to select the current input source for HDMI/DVI signal input, the indicator is blue.

**(5) LAYOUT Button**

Press LAYOUT key to switch the screen display mode.

When the input signal is SDI signal, press LAYOUT key continuously, SDI signal has the following modes:

4L SDI Square Mode: 4 SDI inputs formed a 4K signal, 4K mode is Square mode..

SDI Single Mode: Single SDI input signal full screen display mode.

SDI Quad View Mode: 4-channel SDI input signal consisting of 4-screen display mode, 4 SDI can enter different resolution signals.

When the input signal is HDMI signal, press LAYOUT key continuously, the HDMI signal has the following modes:

HDMI Square Mode: 4K signal is divided into 4 HDMI simultaneous input display mode.

HDMI Single Mode: Single HDMI input signal full screen display mode.

HDMI Quad View Mode: 4-channel HDMI input signal consisting of 4-screen display mode, 4-channel HDMI can enter different resolution signals.

**(6) WINSEL Button**

Under the single signal window, press the WINSEL key to switch the input signal path.

When the SDI signal is in the SDI Single Mode display mode, press the WINSEL key in succession to switch the SDI signal of different input channels.

When the HDMI signal is in the HDMI Single Mode display mode, press the WINSEL key in succession to switch the HDMI signal of the different input channels.

When in the SDI Quad View Mode or HDMI Quad View Mode display mode, press the WINSEL button continuously to select the function and parameters of different input channels.

**(7) MODE/F1 Key and Indicator**

Function key MODE / F1, you can set its function in the menu. When you turn on the function key, its indicator is blue.

**(8) F2 Button and Indicator**

Function key F2, its function can be set in the menu. When you turn on the function key, its

indicator is blue.

**(9) MENU/EXIT Button**

Press to display the on-screen menu, press it again to clear the on-screen menu.

Able to clear the mark display.

Able to clear the mode display.

Able to turn off the shortcut menu.

**(10) DOWN Button**

When in the menu, press this button to select the operation down.

**(Note: If operation panel is with IMAGE/ADJ knob,IMAGE/ADJ knob should be turned to left direction)**

**(11) UP Button**

While in the menu, press this key to select the up operation.

**(Note: If operation panel is with IMAGE/ADJ knob,IMAGE/ADJ knob should be turned to right direction)**

**(12) ENTER Button**

Press to select the OK operation.

While the menu is operating, press the ENTER key to enter the next menu or to confirm the selected parameter.

When not in the menu, pressing ENTER continuously displays the following adjustments:

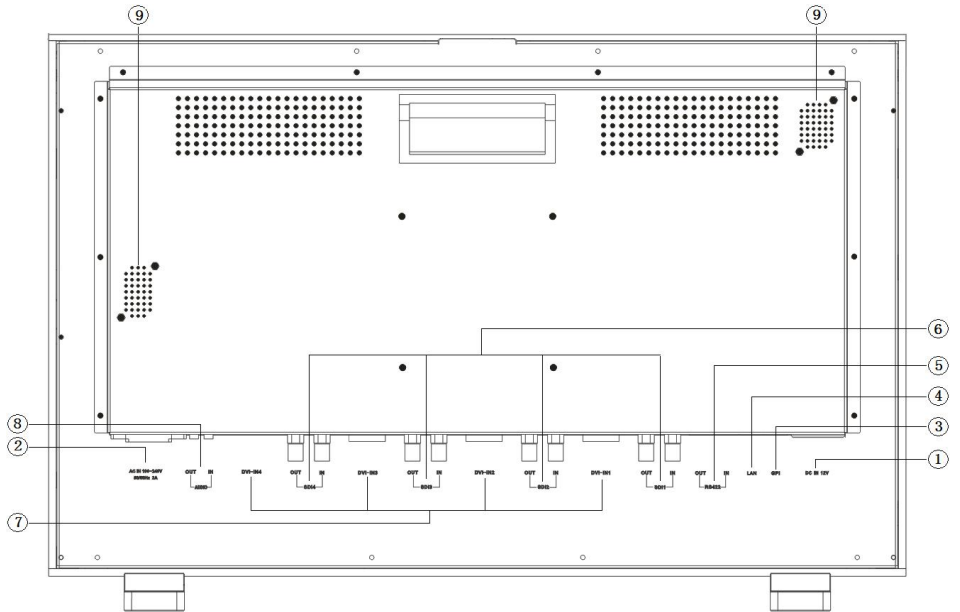
**Brightness:** image brightness adjustment items;

**Contrast:** image contrast adjustment items;

**Backlight:** screen backlight brightness adjustment items;

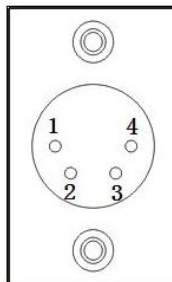
**Volume:** Volume adjustment items.

**B. Rear View**



**(1) DC 12V IN**

12V DC power supply:



The interface pins are defined as:

Pin 1: GND

Pin 2: NC

Pin 3: NC

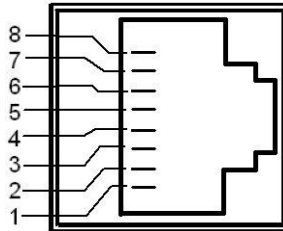
Pin 4: +12V

**(2) AC In**

100-240V AC power supply

**(3) GPI**

GPI interface:



Pin	GPI Signal	Description
1	GPI1	When connect GND, GPI1 works, GPI1 function can be set in the menu function option
2	GPI2	when connect GND, GPI2 works, GPI2 function can be set in the menu function option
3	GPI3	when connect GND, GPI3 works, GPI3 function can be set in the menu function option
4	NC	Not connect
5	NC	Not connect
6	GPI4	when connect GND, GPI4 works, GPI4 function can be set in the menu function option
7	NC	Not connect
8	GND	Ground

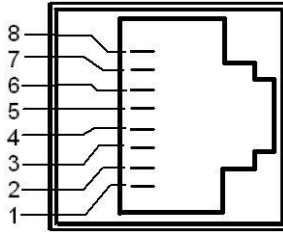
**(4) LAN**

Ethernet port for remote network control. Thought this port, along with software“Konvision

Device Controller”, you can achieve remote controlling to the monitor easily. (remote control software & instructions please contact with the dealer)

**(5) RS422 IN and RS422 OUT**

RS422 in and out, support dynamic UMD/Tally.



Pin	RS422 IN Signal name	RS422 OUT Signal name
1	GND	GND
2	GND	GND
3	Tx-	Tx-
4	Rx+	Rx+
5	Rx-	Rx-
6	Tx+	Tx+
7	NC	NC
8	NC	NC

**(6) SDI1、SDI2、SDI3、SDI4 Input / Loop out**

Used for SDI signal input and output.

In the SDI Square Mode display mode, display 4K signal consist of SDI1、SDI2、SDI3、SDI4 inputs simultaneously;

In the SDI 2-SI Mode display mode, display 4K signal consist of SDI1、SDI2、SDI3、SDI4 inputs simultaneously;

In the SDI Quad View Mode mode, SDI1、SDI2、SDI3、SDI4 access different resolution signals, while displaying four screens;

In the SDI Single Mode display mode,one of the SDI1, SDI2, SDI3, SDI4 input signals can be displayed in full screen alone.

**(7) DVI\_IN1、DVI\_IN2、DVI\_IN3 、DVI\_IN4 Inputs**

For HDMI / DVI signal input. Through HDMI to DVI adapter, you can access the HDMI signal.

In the HDMI Square Mode display mode, it can display the 4K signal when the 4K signal composed of DVI\_IN1, DVI\_IN2, DVI\_IN3 and DVI\_IN4 is input at the same time.

In the HDMI Quad View Mode, DVI\_IN1, DVI\_IN2, DVI\_IN3 and DVI\_IN4 are connected to different resolution signals and displayed in four pictures at the same time.

In HDMI Single Mode display mode, you can choose to display a single full-screen DVI\_IN1, DVI\_IN2, DVI\_IN3, DVI\_IN4 input signal.

#### **(8) AUDIO(IN/OUT)**

Audio in used for analog signal input, Audio out used for monitoring with 3.5mm earphone.

#### **(9) Speaker**

Speaker output.

### **OSD Menu**

#### **Menu Operation:**

Press MENU to enter the main menu, then press UP or DOWN to switch between options in the same menu. After you find the corresponding option, press ENTER to enter the next menu, and then press UP or DOWN to find the corresponding Parameter, press ENTER key first, then press UP key or DOWN key to adjust the value of the parameter. When the parameter is set, press MENU to return to the previous menu. Then use a similar method to set the remaining parameters. In summary, the following keys ENTER, MENU, UP, and DOWN are frequently used when setting parameters. The role of the keys are:

ENTER: enter the next menu

MENU: Return to the previous menu

UP button and DOWN button: in the same menu, switch the options; or adjust the value of the parameters.

#### **Menu Item Description**



**1. Main menu:**

The main menu contains the following items:

Main menu options	Sub-menu
Status Display	1
Function Settings	1
Marker Settings	1
Waveform	1
Aux Settings	1
Color Settings	1
Video Settings	1
Input Settings	1
Audio Settings	1
CC Settings	1
IMD Setting	1
Menu Setting	1
Key Lock	1

**2. Sub Menu:**

Status Display:

Main Menu	Status Display
Status Display >	Input Source SDI
Function Settings >	Input Format 3840x2160 24p
Marker Settings >	SDI Payload ID 0xff 0xff 0xff 0xff
Waveform >	Brightness 50
Aux Settings >	Contrast 20
Color Settings >	Scan Mode OFF
Video Settings >	Color Temp 6500K
Source Settings >	Aspect Fit Aspect
Audio Settings >	HDR OFF
CC Setting >	IP Address 192.168.1.155
IMD Settings >	DSP Version V72171201
OSD Settings >	MCU Version V172123-1P2
Key Lock >	

Status Display	
Menu item	Description
Input Source	Display the current input source
Input Format	Display the current input format
SDI Payload ID	SDI Payload ID
Brightness	Display current image brightness
Contrast	Display current image contrast
Scan Mode	Display current scan mode
Color Temp	Display color temp
Frame Ratio	Display drawing ratio
HDR	Display selected HDR mode
IP Address	Display factory default IP address; 192.168.1.155
DSP Version	Display machine internal DSP software version information
CPU Version	Display machine internal CPU software version information

### Function Settings:

Main Menu	Function Settings
Status Display > F1	W-Form Mode
Function Settings > F2	Audio Meter
Marker Settings > GPI 1	Undefined
Waveform > GPI 2	Undefined
Aux Settings > GPI 3	Undefined
Color Settings > GPI 4	Undefined
Video Settings >	
Source Settings >	
Audio Settings >	
CC Setting >	
IMD Settings >	
OSD Settings >	
Key Lock >	

Function Settings		
Sub Menu	Settings	Setting Option Description
F1	Undefined W-Form Mode Vector Scope Histogram Audio Meter Focus Assistant False Color Zebra Blue Mono Red Green Time Code	The function keys can be set to the following functions: W-Form Mode, Vector Scope, Histogram, Audio Meter, Focus Assistant, False Color, Zebra, Blue, Mono, Red, Green, Time Code, Static Frame, Mute, Markup Control

	Static Frame Mute Markup Control	
F2	Same as above	Same as above
GPI1	Undefined Markup Control Red Tally Green Tally Blue Mono SDI HDMI Layout	The function keys can be set to the following functions: Markup Control, Red Tally, Green Tally, Blue, Mono, SDI, HDMI, Layout
GPI2	Same as above	Same as above
GPI3	Same as above	Same as above
GPI4	Same as above	Same as above

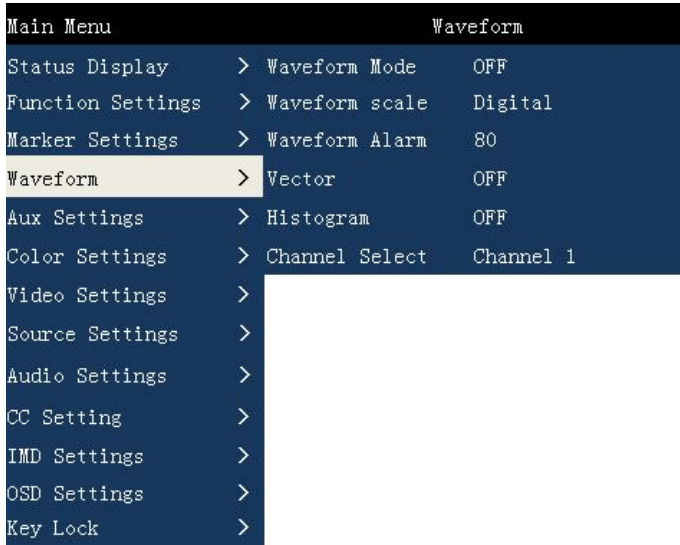
**Marker Settings:**

Main Menu	Marker Settings	
Status Display	> Marker Control	OFF
Function Settings	> Area Marker	2.35:1
Marker Settings	> Center Marker	ON
Waveform	> Safety Area	80
Aux Settings	> Fit Marker	OFF
Color Settings	> Marker Mat	Translucency
Video Settings	> Marker Line	Gray
Source Settings	>	
Audio Settings	>	
CC Setting	>	
IMD Settings	>	
OSD Settings	>	
Key Lock	>	

Marker Settings		
Sub Menu	Settings	Setting Option Description
Marker Control	On	Turn on all markers
	Off	Turn off all markers
Area Marker	OFF	No Area Marker
	4:3	Area Marker ratio 4:3
	15:9	Area Marker ratio 15:9
	14:9	Area Marker ratio 14:9
	13:9	Area Marker ratio 13:9
	1.85:1	Area Marker ratio 1.85:1
Center Marker	2.35:1	Area Marker ratio 2.35:1
	OFF	Turn off Center Marker
Center Marker	ON	Turn on Center Marker
	Safety Area	OFF
80		80% Safety Area

	85	85% Safety Area
	88	88% Safety Area
	90	90% Safety Area
	93	93% Safety Area
Fit Marker	OFF	Turn off Fit Marker
	ON	Turn on Fit Marker
Marker Mat	OFF	Turn off Marker Mat
	Black	Turn on Marker Mat as Black
	Translucency	Turn on Marker Mat as Translucency
	Gray	Turn on Marker Mat as Gray
Marker Line	OFF	Turn off
	White	Turn on Marker Line as White
	Green	Turn on Marker Line as Green
	Gray	Turn on Marker Line as Gray

**Waveform:**



Waveform		
Sub Menu	Settings	Setting Option Description
Waveform Mdoe	OFF	Turn off waveform
	LUMA	Display LUMA waveform
	YCbCr	Display YCbCr waveform
	RGB	Display RGB waveform
Waveform Scale	Digital	Waveform scale is displayed numerically
	IRE	Waveform scale is displayed as a percentage of brightness
Waveform Alarm	80-100	The waveform alarm display can be set to any percentage within the range of 80%-100%. When the measured waveform reaches or exceeds this percentage, an alarm will occur and the alarm will be indicated in red.

Vector	OFF 100 75	Close vector Vector illustration 100% display Vector reduced to 75% display
Histogram	OFF LUMA RGB	Close histogram Display brightness histogram Display RGB histogram
Channel Select	Channel 1 Channel 2 Channel 3 Channel 4 4K Mode	Select to display channel 1 waveform separately Select to display channel 2 waveform separately Select to display channel 3 waveform separately Select to display channel 4 waveform separately 4K picture measurement waveform composed of 4 input channels in 4K mode



## Aux settings:

Main Menu	Aux Settings	
Status Display	> False Color	OFF
Function Settings	> Focus Assist	OFF
Marker Settings	> Focus Gain	10
Waveform	> Zebra	OFF
Aux Settings	> Zebra Level	80
Color Settings	> H Flip	OFF
Video Settings	> Time Code	OFF
Source Settings	>	
Audio Settings	>	
CC Setting	>	
IMD Settings	>	
OSD Settings	>	
Key Lock	>	

Aux settings		
Sub Menu	Settings	Setting Option Description
False Color	ON	Turn on False Color
	OFF	Turn off False Color
Focus Assist	ON	Turn on Focus Assist
	OFF	Turn off Focus Assist
Focus Gain	0-31	Focus Gain 0-31
Zebra	ON	Turn on Zebra
	OFF	Turn off Zebra
Zebra Level	80-100	The zebra line scale can be set to any percentage within the range of 80%-100%. When the brightness in the picture reaches or exceeds this percentage, an alarm will

		occur and the alarm part will be overlaid with a red zebra crossing.
H Flip	ON OFF	Turn on H Flip Turn off H Flip
Time Code	ON OFF	Turn on Time Code Turn off Time Code

### Color Settings:

Main Menu	Color Settings	
Status Display	> RGB Level	Limited Range
Function Settings	> Color Temp	6500K
Marker Settings	> Red Gain	128
Waveform	> Green Gain	128
Aux Settings	> Blue Gain	128
Color Settings	> Red Bias	128
Video Settings	> Green Bias	128
Source Settings	> Blue Bias	128
Audio Settings	> Color Table	Rec709
CC Setting	> HDR	OFF
IMD Settings	>	
OSD Settings	>	
Key Lock	>	

Color Setting		
Sub Menu	Settings	Setting Option Description
Data Levels	Limited Range (64-940)	Select Limited Range Mode
	Extended Range (64-1023)	Select Extended Range Mode
	Full Range (0-1023)	Select Full Range Mode
	Custom	Select Custom Mode
Color Temp	5500K	Select Color Temp 5500K

	6500K 9300K User	Select Color Temp 6500K Select Color Temp 9300K Select User-Defined Color Temp
Red Gain	0—255	Red Gain 0—255
Green Gain	0—255	Green Gain 0—255
Blue Gain	0—255	Blue Gain 0—255
Red Bias	0—255	Red Bias 0—255
Green Bias	0—255	Green Bias 0—255
Blue Bias	0—255	Blue Bias 0—255
Color Table	Bypass Rec709 EBU SMPTE C DCI P3 Rec2020 USER 1 USER 2	Color Table Select Bypass Color Table Select REC709 Color Table Select EBU Color Table Select SMPTE C Color Table Select DCI P3 Color Table Select Rec2020 Color Table Select USER1 Color Table Select USER2
Gamma	OFF Gamma 2.0 Gamma 2.2 Gamma 2.4 Gamma 2.6 Rec.2100 HLG 1.0 Rec.2100 HLG 1.1 Rec.2100 HLG 1.2 Rec.2100 HLG 1.3 Rec.2100 HLG 1.4 Rec.2100 HLG 1.5 ST2084 200nit	Turn off HDR HDR Select ST2084-Clip Mode HDR Select ST2084-SoftRoll Mode HDR Select HLG Mode

	ST2084 300nit ST2084 500nit ST2084 800nit ST2084 1000nit S-Log3	
User-HDR	OFF Rec.2100 HLG ST2084 HDR10	Ture off HDR HDR select Rec.2100 HLG mode HDR selectST2084 HDR10 mode

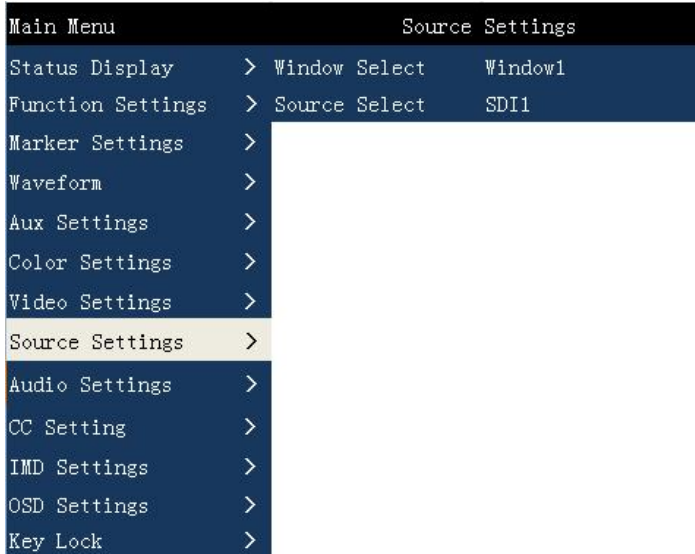
Video Settings:

Main Menu	Video Settings
Status Display >	Aspect Full Screen
Function Settings >	Freeze OFF
Marker Settings >	Scan Mode OFF
Waveform >	Blue Mode OFF
Aux Settings >	
Color Settings >	
Video Settings >	
Source Settings >	
Audio Settings >	
CC Setting >	
IMD Settings >	
OSD Settings >	
Key Lock >	

Video Settings		
Sub Menu	Settings	Setting Option Description
Aspect	Full Screen	The screen is displayed in Full Screen
	Original Ratio	The screen is displayed in the original scale of the input signal.
	1:1	The screen is displayed as 1:1
Freeze	OFF	Turn off Freeze
	ON	Turn on Freeze
Scan Mode	OFF	Turn off Scan mode
	ON	Turn on Scan mode
Blue Mode	OFF	Turn off the color display mode
	Mono	Black and white mode display image
	Blue	
	Red	

	Green	Full blue mode display image Full red mode display image Full green mode display image
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### Source Settings:



Source Settings		
Sub Menu	Settings	Setting Option Description
Window Select	Window 1	Select window 1
	Window 2	Select window 2
	Window 3	Select window 3
	Window 4	Select window 4
Source Select	SDI1	Source Select SDI1
	SDI2	Source Select SDI2
	SDI3	Source Select SDI3
	SDI4	Source Select SDI4

	HDMI1	Source Select HDMI1
	HDMI2	Source Select HDMI2
	HDMI3	Source Select HDMI3
	HDMI4	Source Select HDMI4

### Audio Settings:

Main Menu	Audio Settings	
Status Display	> Audio Source	Unfined
Function Settings	> Output Channel	CH1&CH2
Marker Settings	> Audio Meter	ON
Waveform	> Meter Direction	Vertical
Aux Settings	> Meter Select	CH1-2
Color Settings	>	
Video Settings	>	
Source Settings	>	
Audio Settings	>	
CC Setting	>	
IMD Settings	>	
OSD Settings	>	
Key Lock	>	

Audio Settings		
Sub Menu	Settings	Setting Option Description
Audio Source	Undefined	Audio Source Undefined
	SDI1	Audio Source select SDI1
	SDI2	Audio Source select SDI2
	SDI3	Audio Source select SDI3
	SDI4	Audio Source select SDI4
	HDMI1	Audio Source select HDMI1
	HDMI2	Audio Source select HDMI2

	HDMI3 HDMI4	Audio Source select HDMI3 Audio Source select HDMI4
Output Channel	CH1&CH2 CH3&CH4 CH5&CH6 CH7&CH8 CH9&CH10 CH11&CH12  CH13&CH14  CH15&CH16	Select audio output CH1&CH2 Channel  Select audio output CH3&CH4 Channel  Select audio output CH5&CH6 Channel  Select audio output CH7&CH8 Channel  Select audio output CH9&CH10 Channel  Select audio output CH11&CH12 Channel  Select audio output CH13&CH14 Channel  Select audio output CH15&CH16 Channel
Audio Meter	OFF ON	Turn off Audio Meter Turn on Audio Meter
Meter Direction	Vertical Horizontal	Audio meter vertical display Audio meter horizontal display
Meter Select	CH1-2 CH1-4 CH5-6 CH5-8 CH5-10 CH9-12 CH13-14	Select meter channel CH1-2 Select meter channel CH1-4 Select meter channel CH5-6 Select meter channel CH5-8 Select meter channel CH5-10 Select meter channel CH9-12 Select meter channel



	CH13-16	CH13-14 Select meter channel CH13-16
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## CC Settings:

Main Menu	IMD Settings
Status Display >	Channel Select Channel 1
Function Settings >	CC Mode OFF
Marker Settings >	608 Caption Type CC 1
Waveform >	708 Caption Type Service 1
Aux Settings >	
Color Settings >	
Video Settings >	
Source Settings >	
Audio Settings >	
CC Setting >	
IMD Settings >	
OSD Settings >	
Key Lock >	

CC Setting		
Sub Menu	Settings	Setting Option Description
Channel Select	Channel 1	Select single channel SDI1
	Channel 2	CC
	Channel 3	Select single channel SDI2
	Channel 4	CC
	4K Mode	Select single channel SDI3
		CC
		Select single channel SDI4
		CC

		Select 4K mode CC
CC Mode	OFF 708 608	Turn off CC Select 708 Mode Select 608 Mode
608 Caption Type	CC 1 CC 2 CC 3 CC 4	608 select CC 1 type 608 select CC 2 type 608 select CC 3 type 608 select CC 4 type
708 Caption Type	Service 1 Service 2 Service 3 Service 4 Service 5 Service 6	708 select Service 1 type 708 select Service 2 type 708 select Service 3 type 708 select Service 4 type 708 select Service 5 type 708 select Service 6 type

## IMD Settings:

Main Menu	IMD Settings	
Status Display	> IMD Display	OFF
Function Settings	> IMD Color	Red
Marker Settings	> IMD Protocol	Local
Waveform	> IMD Name	Channell
Aux Settings	> IMD ID	0
Color Settings	> Baud Rate	38400
Video Settings	> LED TALLY	OFF
Source Settings	> OSD Tally Mode	RG
Audio Settings	> Tally Source	Standard
CC Setting	>	
IMD Settings	>	
OSD Settings	>	
Key Lock	>	

IMD Settings		
Sub Menu	Settings	Setting Option Description
IMD Display	ON	Turn on IMD display
	OFF	Turn off IMD display
IMD Color	Green	IMD character display green
	Red	IMD character display red
	White	IMD character display white
IMD protocol	TSL3.1	Select TSL3.1
	TSL4.0	Select TSL4.0
	TSL5.0	Select TSL5.0
IMD name	Channell	IMD name display
IMD ID	0-127	The IMD address can be set anywhere between 0-127. The IMD address can be used to set different IMD addresses of

		the machine when multiple machines are cascaded. This function can be used to distinguish different machines by IMD address when using RS-422 system to remotely control different machines.
Baud Rate	38400	Select the baud rate for communication 38400
LED Tally	ON OFF	Turn on LED Tally Turn off LED Tally
OSD Tally Mode	OFF RG GR RGY	Turn off OSD Tally OSD Tally select RG mode OSD Tally select GR mode OSD Tally select RGY mode
LED Tally Source	GPI TSL	Select GPI Select Select TSL protocol control

## OSD Settings:

Main Menu	OSD Settings	
Status Display	> Language	English
Function Settings	> Menu	30
Marker Settings	> Factory	ON
Waveform	>	
Aux Settings	>	
Color Settings	>	
Video Settings	>	
Source Settings	>	
Audio Settings	>	
CC Setting	>	
IMD Settings	>	
OSD Settings	>	
Key Lock	>	

OSD Settings		
Sub Menu	Settings	Setting Option Description
Language	Chinese English	Menu language selection Chinese Menu language selection English
OSD time	5-60	Setting menu display time
OSD Position	Top left Upper right Bottom left Bottom right	Menu position is at the top left Menu position is at the top right Menu position at the bottom left Menu position at the bottom right
Factory	NO	Choose whether to restore

	YES	factory settings
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## Key Lock:

Main Menu	Key Lock
Status Display >	Key Lock OFF
Function Settings >	
Marker Settings >	
Waveform >	
Aux Settings >	
Color Settings >	
Video Settings >	
Source Settings >	
Audio Settings >	
CC Setting >	
IMD Settings >	
OSD Settings >	
Key Lock >	

Key Lock		
Sub Menu	Settings	Setting Option Description
Key Lock	OFF	Turn off Key Lock
	ON	Turn on Key Lock

## Factory Settings

Use this feature, you can reset this monitor to factory settings.

The factory settings can be restored when the following conditions occur on the monitor:

1. Press MENU button to enter main menu.
2. When the monitor's screen display or sound is not normal, you can enter the factory reset option to return to the factory settings in case of non-hardware failure.

Main Menu		OSD Settings	
Status Display	>	Language	English
Function Settings	>	Menu	30
Marker Settings	>	Factory	ON
Waveform	>		
Aux Settings	>		
Color Settings	>		
Video Settings	>		
Source Settings	>		
Audio Settings	>		
CC Setting	>		
IMD Settings	>		
OSD Settings	>		
Key Lock	>		

To do factory reset, please follow the below six steps:

1. Press MENU button to enter main menu.
2. Turn VOLUME knob to item Setup and select it.
3. Press ENTER to select the menu settings sub-menu option.
4. Press the DOWN button to select the factory setting option.
5. Press the ENTER key to select whether to restore the factory settings. Select "Yes" when prompted.
6. Wait for 3 seconds and then press the POWER button to boot, the monitor to restore the factory settings is completed.

## Remote Control

Remote control the monitor through Ethernet:

1. Connected with monitor via LAN, and you can achieve remote controlling by software "Konvision Device Controller". (Network remote control software and instructions please contact with the dealer)
2. The network cable is a parallel cable connection

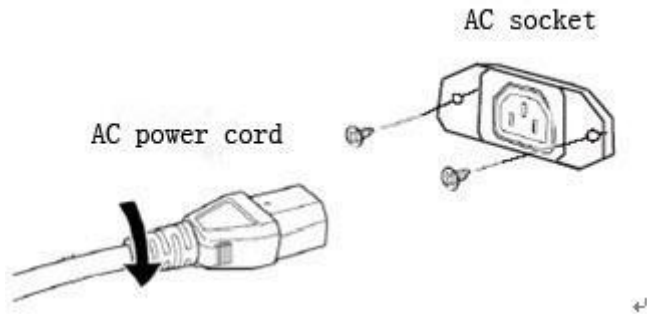
Parallel line connection: Both ends are 568A standard or both ends are 568B standard.

568A standard: green white, green, orange white, blue, blue white, orange, brown white, brown

568B standard: orange white, orange, green white, blue, blue white, green, brown white, brown

## AC Power Connection

Plug the AC power cord into the monitor AC jack



Note: 1) Please hold the plug tight when you pull out the power cord.

2) Please do not connect the power supply before you insert the cable well.

3) Please use power cord match to monitors.



# Warranty Card

User		Tel		Postal Code	
Address					
Product Model			Serial Number		
Dealer			Purchase Date		

## Maintenance Record

Date	Contents of Reparation	Replacement parts		Repairer	User Signature
		Name	Qty		

This warranty card should be filled in immediately when purchasing

Please keep a proper record of this warranty card.

As the continuous improvement of the products, this will subject to change without notice

All contents on this data have been carefully checked, if there is any printing errors & omissions or any misunderstanding, our Company reserves the right of interpretation.