

KXM/KUM Series 4K/8K LCD Monitors

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## USER MANUAL

V2.0.1



Shenzhen Konvision Technology Co., Ltd

<http://www.konvision.com>

## About This Manual

The instructions in this manual are for KXM/KUM Series 4K/8K LCD monitors.

**In the following description, two different rear view model pictures are used.**

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 operate.
- . 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 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 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.

### LCD and OLED Screen Note

The monitor may appear unrecoverable residual images, when it switches to other signals after displaying the same images for a long time, even if the images is in a moving video, such as still

LOGO or still characters etc. Please use a screen saver or timer to avoid displaying the same images for a long time.

## 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. If the cabinet cleaning is difficult, please use lint free cloth that has 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 certain objects surface (e.g. 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. Please 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, and do not insert the plug.**

**Contact a professional service staff to deal with timely.**

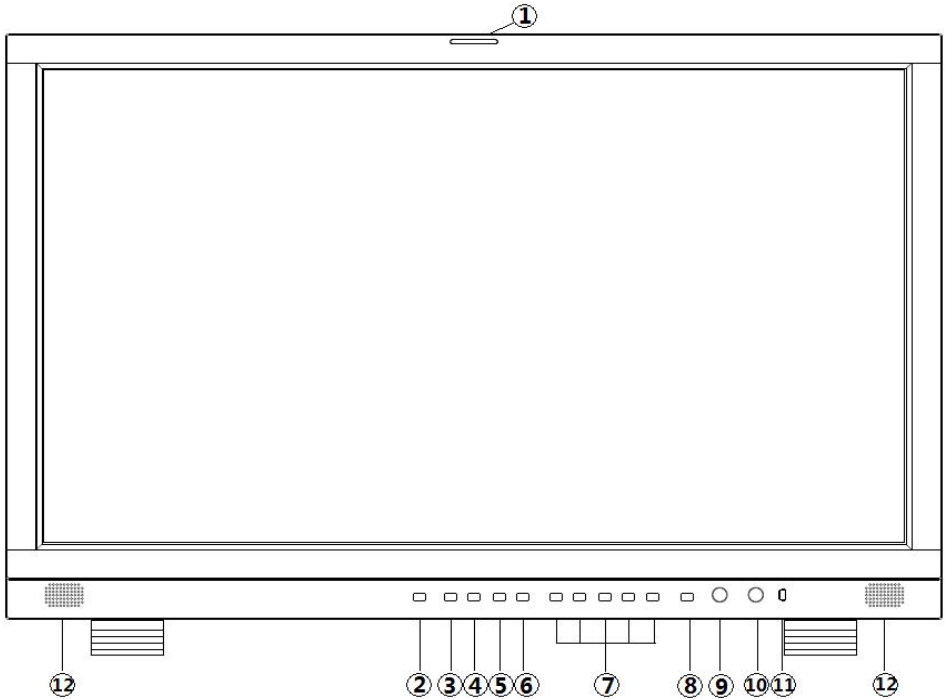
- A. This product smells smoke and off-flavor.
- B. When this product displays abnormal operating conditions, such as there is no picture or sound.
- C. When any liquid splashed into the product or product dropped.
- D. When the product soaked or fall into the water.
- E. When the product has been damaged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

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

1. If a static image displayed too long, panel will have residual image, which should attributed to the LCD display characteristics, 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 manufactured with high precision technology, and a small number of pixels may not be able to show intermittent.
4. When touch monitor it may be appear slight vibrate.
5. Screen and cabinet will become warm gradually during operating.
6. When the monitor hear cracked voice.
7. When the monitor hear mechanical vibrate voice.

## 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. RS422 Port: control Tally light via TSL 3.1 or TSL 4.0 protocol. RS422 interface, 8Bit data, 1 stop, even parity, 38400 baud.

#### (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 around 2 seconds can turn off the monitor power supply and indicate light turns to red.

#### (3) S1 Button and Indicator

Press the S1 button, the indicator will turn blue. Currently, the S1 button switch to the configuration corresponding to the S1 button.

#### (4) S2 Button and Indicator

Press the S2 button, the indicator will turn blue. Currently, the S2 button switch to the

configuration corresponding to the S2 button.

**(5) S3 Button and Indicator**

Press the S3 button, the indicator will turn blue. Currently, the S3 button switch to the configuration corresponding to the S3 button.

**(6) S4 Button and Indicator**

Press the S4 button, the indicator will turn blue. Currently, the S4 button switch to the configuration corresponding to the S4 button.

**(7) F1-F5 Button**

Function button, its function can be set in the menu. After setting the button function, press the custom key quickly switch to the corresponding function.

**(8) MENU/EXIT Button**

Press to display the on-screen menu, press it again to clear the on-screen menu. Press to display or exit menu, also can back to previous menu.

**(9) VOLUME (L/R) Knob**

When in the menu, spin this knob to select L/R operation.

When not in the menu, press the knob continuous, will appear following adjustment:

**Audio Mute:** audio mute on/off

**Volume:** volume adjustment items.

**(10) IMAGEADJ (U/D) Knob**

When in the menu, spin this knob to select up/down operation.

When not in the menu, press the knob continuous, will appear following adjustment:

**Brightness:** adjust the backlight of the image.

**(11) USB**

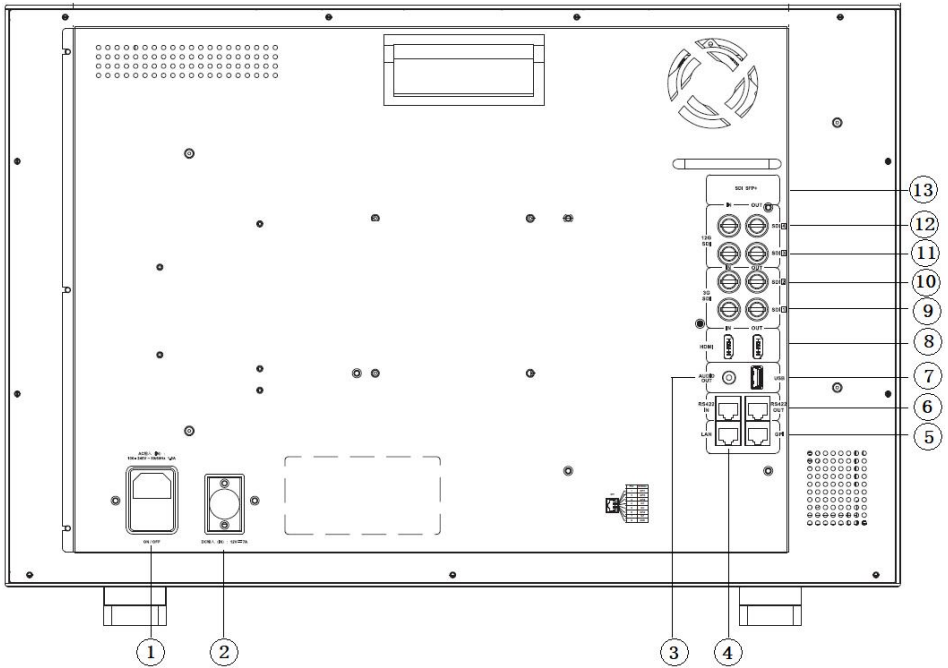
Upgrading the monitor FPGA, OSD, APP EDP software or LUT file with USB port.

**(12) Speaker**

Speaker out.



## B. Rear View 1



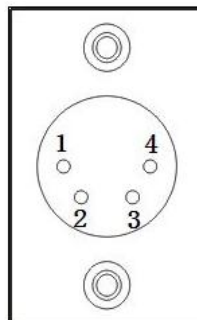
### (1) AC IN and Switch

AC power supply

AC power input is powered on, switch to “I” to power on, switch to “O” to power off, and shut down

### (2) DC IN (Remark: only for a few models)

DC 12V power supply



Pin definition:

Pin 1: GND

Pin 2: NC

Pin 3: NC

Pin 4: +12V

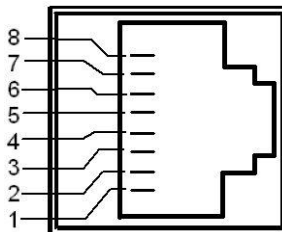
### (3) AUDIO OUT

Analog stereo audio interface output

### (4) LAN

Ethernet port for color correction, upgrading or control UMD via TSL5.0. (For specification instructions please contact with the dealer)

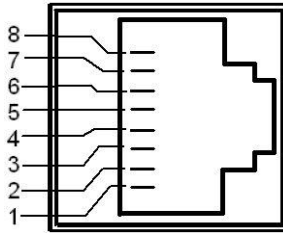
### (5) GPI Interface:



Pin	GPI Signal	Description
1	GPI 1	When connect GND (or lower level), GPI 1 works, GPI 1 function can be set in the menu function option
2	GPI 2	When connect GND (or lower level), GPI 2 works, GPI 2 function can be set in the menu function option
3	GPI 3	When connect GND (or lower level), GPI 3 works, GPI 3 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. When using the GPI function, it needs connected to the GND of the GPI device.

### (6) RS422 IN and RS422 OUT

RS422 in and out. RS422 control adoptive TSL3.1 or TSL4.0 protocol. According to this protocol, it supports dynamic UMD/Tally control. (RS 422 interface, 8bit data, 1 stop, even parity, 38400 baud)



Pin	RS422 IN Signal name	RS422 OUT Signal name
1	GND (Power Ground)	GND (Power Ground)
2	GND (Power Ground)	GND (Power Ground)
3	Tx-	Tx-
4	Rx+	Rx+
5	Rx-	Rx-
6	Tx+	Tx+
7	NC (Not Connect)	NC (Not Connect)
8	NC (Not Connect)	NC (Not Connect)

**(7) USB**

Upgrading the monitor FPGA, OSD, APP EDP software or LUT file with USB port.

**(8) HDMI IN/OUT**

HDMI signal input/output interface, Max support 4096x2160 60Hz

**(9) SDI 1 (IN/OUT)**

12G/6G/3G/HD-SDI input, output  
(4K series only support 3G/HD/SD-SDI)

**(10) SDI 2 (IN/OUT)**

12G/6G/3G/HD-SDI input, output  
(4K series only support 3G/HD/SD-SDI)

**(11) SDI 3 (IN/OUT)**

12G/6G/3G/HD-SDI input, output

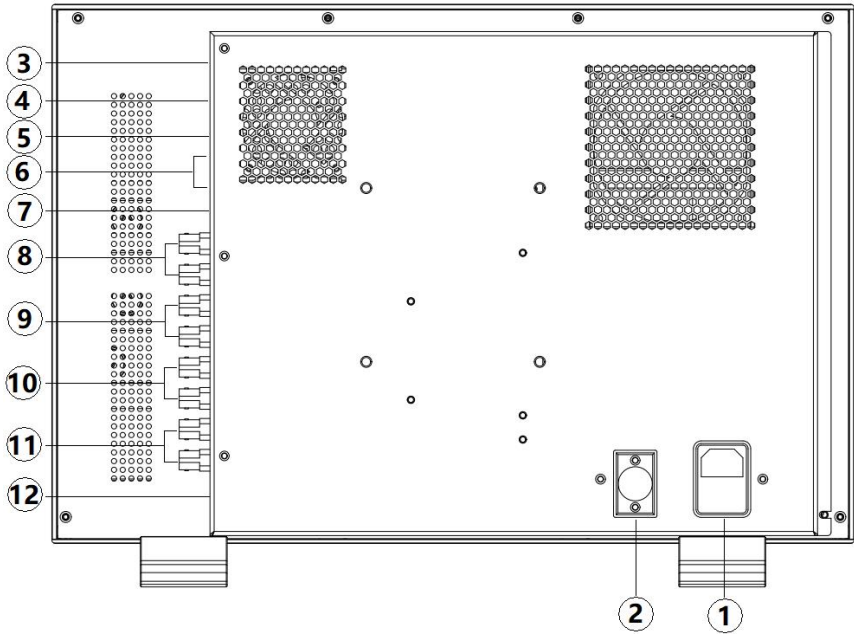
**(12) SDI 4 (IN/OUT)**

12G/6G/3G/HD-SDI input, output

**(13) SDI SFP+**

12G/6G/3G/HD/SD-SDI optical input cage

## Rear View 2



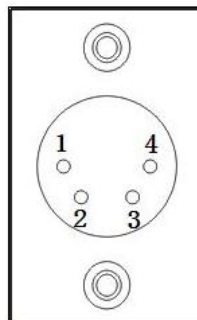
### (1) AC IN and Switch

AC power supply

AC power input is powered on, switch to “I” to power on, switch to “O” to power off, and shut down

### (2) DC IN (Remark: only for a few models)

DC 12V power supply



Pin definition:

Pin 1: GND

Pin 2: NC

Pin 3: NC

Pin 4: +12V

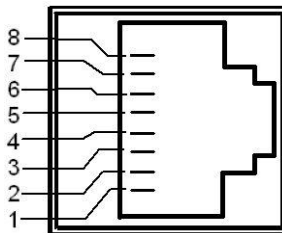
### (3) AUDIO OUT

Analog stereo audio interface output

### (4) LAN

Ethernet port for color correction, upgrading or control UMD via TSL5.0. (For specification instructions please contact with the dealer)

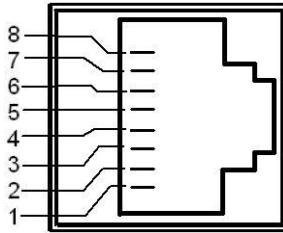
### (5) GPI Interface:



Pin	GPI Signal	Description
1	GPI 1	When connect GND (or lower level), GPI 1 works, GPI 1 function can be set in the menu function option
2	GPI 2	When connect GND (or lower level), GPI 2 works, GPI 2 function can be set in the menu function option
3	GPI 3	When connect GND (or lower level), GPI 3 works, GPI 3 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. When using the GPI function, it needs connected to the GND of the GPI device.

### (6) RS422 IN and RS422 OUT

RS422 in and out. RS422 control adoptive TSL3.1 or TSL4.0 protocol. According to this protocol, it supports dynamic UMD/Tally control. (RS 422 interface, 8bit data, 1 stop, even parity, 38400 baud)



Pin	RS422 IN Signal name	RS422 OUT Signal name
1	GND (Power Ground)	GND (Power Ground)
2	GND (Power Ground)	GND (Power Ground)
3	Tx-	Tx-
4	Rx+	Rx+
5	Rx-	Rx-
6	Tx+	Tx+
7	NC (Not Connect)	NC (Not Connect)
8	NC (Not Connect)	NC (Not Connect)

**(7) HDMI IN**

HDMI signal input interface, Max support 4096x2160 60Hz

**(8) SDI 1 (IN/OUT)**

12G/6G/3G/HD-SDI input, output

**(9) SDI 2 (IN/OUT)**

12G/6G/3G/HD-SDI input, output

**(10) SDI 3 (IN/OUT)**

12G/6G/3G/HD-SDI input, output

(4K series only support 3G/HD/SD-SDI)

**(11) SDI 4 (IN/OUT)**

12G/6G/3G/HD-SDI input, output

(4K series only support 3G/HD/SD-SDI)

**(12) SDI SFP+**

12G/6G/3G/HD/SD-SDI optical input cage

(4K series only support 3G/HD/SD-SDI)

## OSD Menu

### Menu Operation:

Press MENU/EXIT key to enter the main menu, and then spin any knob to switch between options in the same menu. After you find the corresponding option, press the KNOB key to enter the next menu, and then spin the knob to find the corresponding Parameter, press KNOB key first, then spin the knob key to adjust the value of the parameter. When the parameter is set, press MENU/EXIT to return to the previous menu.

Then use a similar method to set the remaining parameters. In summary, when setting parameters the following keys MENU/EXIT key, KNOB, press the KNOB key are frequently used. The role of the keys are:

MENU/EXIT: enter the menu or return to the previous menu. Exit main menu, shortcut key menu, **S1/S2/S3/S4 menu etc.**

IMAGEADJ (U/D) KNOB or VOLUME (L/R): in the same menu, switch the options; or adjust the value of the parameters. Press the knob, select to confirm or enter the next menu

### Note:

**If the current menu settings are gray, the user cannot set the menu. If the current menu settings are white, the user can set menu.**

## Menu Item Description

### Status Display:

Status	Input Mode	Single Input
VPID/HDMI Status	Input Format	SDI1
Config	Color Space	Rec 709
Function	Gamma	2.4
Source	Color Temp	6500K
Color	Backlight	9
Image	Gateway	92.168.001.001
Scope	Subnet Mask	255.255.255.000
Assist	IP Address	192.168.001.155
Marker	Device ID	0002100415130500F20303
Audio	DSP Version	V74230529
CC	EDP Version	V75230529
UMD	MCU Version	V230608-V440_01_UEF-B
System		

Status Display	
Sub Menu	Description
Input Mode	Display the current input mode
Input Format	Display the current input format and resolution
Color Space	Display the color space of the signal source
Gamma	Display the Gamma value of the signal source
Color Temp	Display the color temp of the signal source
Backlight	Display the current backlight of the screen
Gateway	Display the default gateway (default value 192.168.001.001)
Subnet Mask	Display the default Subnet Mask(default value: 255.255.255.000)
IP Address	Display the factory default IP address: 192.168.001.155
Device ID	Display the Device ID
DSP Version	Display DSP software version information
EDP Version	Display EDP software version information
MCU Version	Display MCU software version information



## VPID/HDMI Status (SDI):

Status	Channel Select	Channel 1
<b>VPID/HDMI Status</b>	Source	SDI1
Config	Payload ID	00 00 00 00
Function	SMPTE Standard	Unknown
Source	Color Depth	--
Color	Color Format	--
Image	Picture Rate	--
Scope	Scanning Method	--
Assist	Colorimetry	--
Marker	Link Assignment	--
Audio		
CC		
UMD		
System		

VPID/HDMI Status (Current SDI signal)	
Sub Menu	Description
Channel Select	Select different channel to view different signal parameter
Source	Display the current input signal
Payload ID	Display the Payload ID of the SDI signal
SMPTE Standard	Display the SMPTE protocol of the SDI signal
Color Depth	Display the Color Depth of the signal
Color Format	Display the Color Format of the signal
Picture Rate	Display the Picture Rate of the signal
Scanning Method	Display the Scanning Method of the signal
Colorimetry	Display the Colorimetry of the signal
Link Assignment	Display the Link Assignment of the SDI signal

## VPID/HDMI Status (HDMI):

Status	Channel Select	Channel 1
<b>VPID/HDMI Status</b>	Source	HDMI
Config	Color Format	--
Function	Data Level	--
Source	Color Depth	--
Color	Colorimetry	--
Image		
Scope		
Assist		
Marker		
Audio		
CC		
UMD		
System		

VPID/HDMI Status (Current HDMI signal)	
Sub Menu	Description
Channel Select	Select different channel to view different signal parameter
Source	Display the current HDMI signal
Color Format	Display the Color Format of the signal
Data Level	Display the Data Level of the signal
Color Depth	Display the Color Depth of the signal
Colorimetry	Display the Colorimetry of the signal

## Config Settings:

Status	Load Config	>>
VPID/HDMI Status	Save Config	>>
<b>Config</b>	Export Config	>>
Function	Import Config	>>
Source	Power On Config	Last Config
Color	Config1 Name	Config1
Image	Config2 Name	Config2
Scope	Config3 Name	Config3
Assist	Config4 Name	Config4
Marker	Config5 Name	Config5
Audio	Factory Reset	>>
CC		
UMD		
System		

Config Settings		
Sub Menu	Settings	Description
Load Config	Config1-5	Select the Config to load
Save Config	Config1-5	Users can preset the Config, after saving, users can set the Config to S1-S4 and other keys. Note: After modifying the parameters, be sure to save the Config. Otherwise, it still load the previous Config when press S1-S4 keys.
Export Config	Export Current Config Export All Config	Use U disk to export current or all Config
Import Config	Import Current Config Import All Config	Use U disk to import current or all Config
Power On Config	Last Config Config1-5	Load the last Config when power on Load the select Config1-5 when power on
Config1 Name	Config1	Config1 Name and can rename the Config1

Config2 Name	Config2	Config2 Name and can rename the Config2
Config3 Name	Config3	Config3 Name and can rename the Config3
Config4 Name	Config4	Config4 Name and can rename the Config4
Config5 Name	Config5	Config5 Name and can rename the Config5
Factory Reset	Current Config	Reset the Current Config
	All Config	Reset all the Config

## Function Settings:

Status	S1	Config1
VPIID/HDMI Status	S2	Config2
Config	S3	Config3
Function	S4	Config4
Source	S Key Info	Off
Color	Function Preset	Preset 1
Image	F1	CC Mode
Scope	F2	Data Level
Assist	F3	Color Space
Marker	F4	EOTF
Audio	F5	Color Temp
CC	GPI 1	Marker Display
UMD	GPI 2	Red Tally
System	GPI 3	Green Tally
	GPI 4	Yellow Tally
	Color Quick Select	Quick Rec709
	Data Level Preset	Limit(64-940)
	Color Space Preset	Rec709
	EOTF Preset	2.4
	Function Reset	> >

Function Settings		
Sub Menu	Settings	Description
S1	Config1-5	Set the Config of S1 key
S2	Config1-5	Set the Config of S2 key
S3	Config1-5	Set the Config of S3 key
S4	Config1-5	Set the Config of S4 key
S Key Info	OFF ON	Press S Key, doesn't display S Key info Press S Key, display S Key info
Function Preset	Preset 1-4	Users can preset 4 functions
F1	F1 key function	Preset the F1 function
F2	F2 key function	Preset the F2 function
F3	F3 key function	Preset the F3 function
F4	F4 key function	Preset the F4 function
F5	F5 key function	Preset the F5 function
GPI 1	GPI 1 function	Set GPI 1 function
GPI 2	GPI 2 function	Set GPI 2 function
GPI 3	GPI 3 function	Set GPI 3 function
GPI 4	GPI 4 function	Set GPI 4 function
Color Quick Select	>>	Preset the Color and then it can be preset in the F function key for quick select
Data Level Preset	>>	Preset the Data Level and then it can be preset in the F function key for quick select (Note: users can preset it only when the Color Quick Select is set to User)
Color Space Preset	>>	Preset the Color Space and then it can be preset in the F function key for quick select (Note: users can preset it only when the Color Quick Select is set to User)
EOTF Preset	>>	Preset the EOTF and then it can be preset in the F function key for quick select (Note: users can preset it only when the Color Quick Select is set to User)

Function Reset	>>	Reset all the Sub Menu to Factory Settings
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## Source Settings

Status	Display Mode	Single
VPID/HDMI Status	Input Mode	Single Input
Config	Win1 Source	SDI1
Function	Win2 Source	SDI2
Source	Win3 Source	SDI3
Color	Win4 Source	HDMI
Image	SDI1 Rename	SDI1
Scope	SDI2 Rename	SDI2
Assist	SDI3 Rename	SDI3
Marker	SDI4 Rename	SDI4
Audio	SFP Rename	SFP
CC	HDMI Rename	HDMI
UMD	Win Border	OFF
System	Win1 Border Color	Green
	Win2 Border Color	Green
	Win3 Border Color	Green
	Win4 Border Color	Green
	Win1 Border Width	6PX
	Win2 Border Width	6PX
	Win3 Border Width	6PX
	Win4 Border Width	6PX

Source Settings		
Sub Menu	Settings	Setting Option Description
Display Mode	Single	Select Single display
	Quad	Select Quad display

			Win 1	Win 2	
			Win 3	Win 4	
Input Mode	Single Quad SDI Dual link SDI 2SI SDI SQD	Select signal input mode SDI 2SI and SDI SQD are used for 4K or 8K signal, this signal is composed of 4 links. 4K is 4x3G, 8K is 4x12G (Note: only 8K monitor support 4x12G)			
Win1 Source	SDI1 SDI2 SDI3 SDI4 SFP HDMI	Select the signal of the Win1			
Win2 Source	SDI1 SDI2 SDI3 SDI4 SFP HDMI	Select the signal of the Win2 (Note: It cannot be set if the menu is grey. It can be set when the display mode is set to Quad Mode or Quad Split)			
Win3 Source	Same as above	Same as above			
Win4 Source	Same as above	Same as above			
SDI1 Rename	SDI1	SDI1 User-defined name			
SDI2 Rename	SDI2	SDI2 User-defined name			
SDI3 Rename	SDI3	SDI3 User-defined name			
SDI4 Rename	SDI4	SDI4 User-defined name			
SFP Rename	SFP	SFP User-defined name			
HDMI Rename	HDMI	HDMI User-defined name			
Output Signal	Win 1 Signal  SDI1	HDMI output signal setting Win1 signal: HDMI output follow Win1 signal SDI1 input, user can select HDMI output			

	SDI2 SDI3 SDI4 HDMI SFP	SDI2 input, user can select HDMI output SDI3 input, user can select HDMI output SDI4 input, user can select HDMI output HDMI input, user can select HDMI output SDP+ input, user can select HDMI output (Note: this function only available for rear view 1 with DHMI output interface)
Win Border	OFF ON	Turn off Win Border in Quad Mode Turn on Win Border in Quad Model (Note: this function only available in Quad Mode)
Win1 Border Color	White Green Blue Cyan Red Yellow	Select the color of the Win1 Border (Note: this function only available in Quad Mode)
Win2 Border Color	Same as above	Same as above
Win3 Border Color	Same as above	Same as above
Win4 Border Color	Same as above	Same as above
Win1 Border Width	3PX 6PX 8PX	Select 3PX width for border line Select 6PX width for border line Select 8PX width for border line
Win2 Border Width	Same as above	Same as above
Win3 Border Width	Same as above	Same as above
Win4 Border Width	Same as above	Same as above

## Color Settings:



Status	Color Ctrl	All Screen
VPID/HDMI Status	Channel Select	Win1
Config	Cross Partition Show	Auto
Function	Data Level	Auto
Source	Color Space	Rec709
<b>Color</b>	EOTF	2.4
Image	Transfer Matrix	Auto
Scope	R Saturation	50
Assist	G Saturation	50
Marker	B Saturation	50
Audio	R Hue	0
CC	G Hue	0
UMD	B Hue	0
System	Sharpness	10
	DBrightness	0
	Contrast	0
	Color Temp	6500K
	R Gain	512
	G Gain	512
	B Gain	512
	R Offset	512
	G Offset	512
	B Offset	512

Color Settings		
Sub Menu	Settings	Setting Option Description
Color Ctrl	Full Screen Zone Ctrl	Full screen color ctrl unified settings Zone ctrl

		(Note: this function only available in Quad Mode)				
Channel Select	Win1 Win2 Win3 Win4	Used for Zoon Ctrl, users can set different color parameter for each window <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Win 1</td> <td>Win 2</td> </tr> <tr> <td>Win 3</td> <td>Win 4</td> </tr> </table>	Win 1	Win 2	Win 3	Win 4
Win 1	Win 2					
Win 3	Win 4					
Cross Partition Show	Auto ON	Reserved function				
Data Level	Auto Limit (64-940) Extend (46-1019) Full (0-1023) SMPTE Full (4-1019)	Auto matches Data Level of the input signal User can select different Data Level according to the input signal				
Color Space	Auto Bypass Rec709 EBU DCI P3 D65 DCI P3 Rec2020 U1_User1 U2_User2 U3_User3 U4_User4 U5_User5 U6_User6	Auto matches color space of the input signal(only for Rec709 or Rec2020) Color Table Select Bypass Color Table Select REC709 Color Table Select EBU Color Table Select DCI P3 D65 Color Table Select DCI P3 Color Table Select Rec2020 Color Table Select User1-User6 (Note: users can load their own color table into the User1-User6)				
EOTF	Bypass, 2.0, 2.2, 2.4, 2.6, 2.4(HDR), Rec.2100 HLG 1.03/1.11/1.16/1.20/1.	Bypass: EOTF use the gamma of the screen itself. Users can select different EOTD according their requirement				

	27/1.33 ST2084 PQ ST2084 PQ(softroll) Slog/2/3, Clog/2/3, Vlog, Dlog, LogC	
Transfer Matrix	Auto Rec601 Rec709 Rec2020	Select a transfer matrix that matches the input signal
R Saturation	0~200	Red Saturation, default value: 50
G Saturation	0~200	Green Saturation, default value: 50
B Saturation	0~200	Blue Saturation, default value: 50
R Hue	-100~100	Red Hue, default value: 0
G Hue	-100~100	Green Hue, default value: 0
B Hue	-100~100	Blue Hue, default value: 0
Sharpness	0~20	Sharpness, default value: 10
DBrightness	-2000~2000	DBrightness, default value: 0
Contrast	-2000~2000	Contrast, default value: 0
Color Temp	6500K 9300K 5500K User1 User2 User3 User4	Color Temp settings Users can customize the Color Temp, and save to corresponding user mode, and then press the S1-S4 keys to load Note: After modifying the parameters, be sure to save the Config. Otherwise, it still load the previous Config when press S1-S4 keys.
R Gain	0-1023	Red Gain (only available in Color Temp user mode)
G Gain	0-1023	Green Gain (only available in Color Temp user mode)
B Gain	0-1023	Blue Gain (only available in Color Temp user mode)
R Offset	0-1023	Red Offset (only available in Color Temp user

		mode)
G Offset	0-1023	Red Offset (only available in Color Temp user mode)
B Offset	0-1023	Red Offset (only available in Color Temp user mode)

## Image Settings:

Status	Backlight	9
VPID/HDMI Status	Aspect Ratio	Original Aspect
Config	Freeze	Off
Function	Over Scan	Off
Source	Mirror/Rotation	Off
Color	Blue Mode/Mono	Off
<b>Image</b>		
Scope		
Assist		
Marker		
Audio		
CC		
UMD		
System		

Image Settings		
Sub Menu	Settings	Setting Option Description
Backlight	0-100	Adjust screen backlight
Aspect Ratio	Full Screen	The screen is displayed in Full Screen
	Original	The screen is displayed in Original Screen
	1:1	The screen is displayed as 1:1
Freeze	OFF	Turn off Freeze

	ON	Turn on Freeze
Over Scan	OFF	Turn off Over Scan
	ON	Turn on Over Scan
Mirror/Rotation	OFF	Turn off Mirror/Rotation
	Mirror	Horizontal mirror display
	Rotation	The screen is rotated 180°
Blue Mode/Mono	OFF	Turn off the blue mode
	Mono	Black and white mode display image
	Blue	Full blue mode display image
	Red	Full red mode display image
	Green	Full green mode display image

### Scope Settings:

Status	Waveform	Off
VPID/HDMI Status	Waveform Scale	Digital
Config	Waveform Alarm	80
Function	Waveform Filter	Off
Source	Vector	Off
Color	Histogram	Off
Image	Measure Channel	Win1
<b>Scope</b>		
Assist		
Marker		
Audio		
CC		
UMD		
System		

Scope Settings		
Sub Menu	Settings	Setting Option Description

Waveform	<p>OFF</p> <p>LUMA</p> <p>YCbCr</p> <p>RGB</p> <p>Quad Luma</p>	<p>Turn off waveform</p> <p>Display LUMA waveform</p> <p>Display YCbCr waveform</p> <p>Display RGB waveform</p> <p>Display Quad Luma</p> <p>(Note: this function only available in the Quad-view mode)</p>
Waveform Scale	<p>Digital</p> <p>IRE</p> <p>Luma PQ</p> <p>Luma HLG</p>	<p>Waveform scale is displayed numerically</p> <p>Waveform scale is displayed as a percentage of luminance</p> <p>HDR PQ luminance waveform</p> <p>Luma HLG luminance waveform</p>
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 indicate in red.
Waveform Filter	<p>OFF</p> <p>ON</p>	<p>Turn off Waveform Filter</p> <p>Turn on Waveform Filter</p>
Vector	<p>OFF</p> <p>100</p> <p>75</p>	<p>Close vector</p> <p>Vector illustration 100% display</p> <p>Vector reduced to 75% display</p>
Histogram	<p>OFF</p> <p>LUMA</p> <p>RGB</p>	<p>Close histogram</p> <p>Display brightness histogram</p> <p>Display RGB histogram</p>
Measure Channel	<p>Channel 1</p> <p>Channel 2</p> <p>Channel 3</p> <p>Channel 4</p>	<p>Select to display channel 1 waveform separately</p> <p>Select to display channel 2 waveform separately</p> <p>Select to display channel 3 waveform separately</p> <p>Select to display channel 4 waveform separately</p> <p>(Note: this function only available in the Quad-view mode.)</p>

## Assist Settings:

Status	False Color	Off
VPID/HDMI Status	HDR Area	Off
Config	Focus Assist	Off
Function	Focus Assist Level	32
Source	Zebra	Off
Color	Zebra Level	80
Image	Time Code	Off
Scope	Time Code Position	TOP
<b>Assist</b>		
Marker		
Audio		
CC		
UMD		
System		

Assist Settings		
Sub Menu	Settings	Setting Option Description
False Color	ON	Turn on False Color
	OFF	Turn off False Color
	HDR	Turn on False Color with HDR
HDR Area	ON	Turn on HDR Area function to see the HDR percentage of the
	OFF	input signal
Focus Assist	OFF	Turn off Focus Assist
	Red	Turn on Focus Assist as Red
	Green	Turn on Focus Assist as Green
	Blue	Turn on Focus Assist as Blue
Focus Assist Level	0-100	Focus Assist Level value 0-100
Zebra	ON	Turn on Zebra
	OFF	Turn off Zebra
Zebra Level	0-100	The zebra line scale can be set to any percentage within the

		range of 0%-100%. When the brightness in the picture reaches or exceeds this percentage, an alarm will occur and the alarm part will overlaid with a red zebra crossing.
Time Code	OFF VITC1 VITC2 LTC	Turn on Time Code Time Code Display as VITC1 Time Code Display as VITC2 Time Code Display as LTC (Note: HDMI signal without Time Code Display)
Time Code Position	Top Bottom	Time Code display at the top of the screen Time code display at the bottom of the screen

### Marker Settings:

Status	Marker Display	Off
VPID/HDMI Status	Aspect Marker	1.85:1
Config	Center Marker	On
Function	Safety Area	80
Source	Fit Marker	Off
Color	Marker Mat	Off
Image	Marker Line Color	Green
Scope	Box Display	Off
Assist	Box Center	On
<b>Marker</b>	Box Mat	Off
Audio	Box Line Color	Green
CC	Box Line Width	4PX
UMD	Box HStart	100
System	Box VStart	100
	Box Width	3640
	Box Height	1960



Marker Settings		
Sub Menu	Settings	Setting Option Description
Marker Display	On	Turn on all markers
	Off	Turn off all markers
Aspect Marker	OFF	No Aspect Marker
	4:3	Aspect Marker ratio 4:3
	16:9	Aspect Marker ratio 16:9
	15:9	Aspect Marker ratio 15:9
	14:9	Aspect Marker ratio 14:9
	13:9	Aspect Marker ratio 13:9
	1.85:1 2.35:1	Aspect Marker ratio 1.85:1 Aspect Marker ratio 2.35:1
Center Marker	OFF	Turn off Center Marker
	ON	Turn on Center Marker
Safety Area	OFF	No Safety Area mark display
	80	80% safety area is displayed
	85	85% safety area is displayed
	88	88% safety area is displayed
	90	90% safety area is displayed
	93	93% safety area is displayed
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
	Gray	Turn on Marker Mat as Gray
Marker Line Color	White	Turn on Marker Line Color as White
	Red	Turn on Marker Line Color as Red
	Green	Turn on Marker Line Color as Green
	Blue	Turn on Marker Line Color as Blue
	Gray	Turn on Marker Line Color as Gray
Box Display	OFF	Turn off Box Display
	ON	Turn on Box Display

Box Center	OFF ON	Turn off Box Center Turn on Box Center
Box Mat	OFF White Black Translucent Red Green Blue	The color of the filling outside the box wireframe
Box Line Color	White Green Blue Cyan Red Yellow	The color of the box wireframe
Box Line Width	4PX 8PX	Select 4PX width for border line Select 8PX width for border line
Box HStart	0-3840	Horizontal start position setting of the Box wireframe
Box VStart	0-2160	Vertical start position setting of the Box wireframe
Box Width	0-3840	Horizontal width setting of the Box wireframe
Box Height	0-2160	Vertical height setting of the Box wireframe

**Audio Settings:**

Status	Audio Source	Win1
VPID/HDMI Status	Left Audio Channel	CH1
Config	Right Audio Channel	CH2
Function	Audio Mode	Normal
Source	Volume	15
Color	Mute	Off
Image	Audio Phase	Off
Scope	Audio Level Meter	Off
Assist	Meter Display Mode	Vertical
Marker	Meter Select	CH1-2
<b>Audio</b>		
CC		
UMD		
System		

Audio Settings		
Sub Menu	Settings	Setting Option Description
Audio Source	Win1	Audio Source select Win1
	Win2	Audio Source select Win2
	Win3	Audio Source select Win3
	Win4	Audio Source select Win4 (Note: this function only available in the Quad-view mode.)
Left Audio Channel	Ch1~Ch16	Select left audio output Ch1~Ch16
Right Audio Channel	Ch1~Ch16	Select right audio output Ch1~CH16
Audio Mode	Normal	Left Channel, Right Channel Normal Output
	Right Channel Mute	Right Channel Mute, Left Channel Output
	Left Channel Mute	Left Channel Mute, Right Channel Output
Volume	0-31	Volume Adjustment

Mute	OFF ON	Turn off Audio Mute Turn on Audio Mute
Audio Phase	OFF ON	Turn off Audio Phase Turn on Audio Phase
Audio Level Meter	OFF ON	Turn off Audio Meter Turn on Audio Meter
Meter Display Mode	Vertical Horizontal	Audio meter vertical display Audio meter horizontal display
Meter Select	CH1-2 CH1-4 CH5-6 CH5-8 CH9-10 CH9-12 CH13-14 CH13-16	Select meter channel CH1-2 Select meter channel CH1-4 Select meter channel CH5-6 Select meter channel CH5-8 Select meter channel CH9-10 Select meter channel CH9-12 Select meter channel CH13-14 Select meter channel CH13-16

## CC Settings:

Status	Channel Select	Channel 1
VPID/HDMI Status	CC Mode	OFF
Config	CC 608	CC 1
Function	CC 708	Service 1
Source		
Color		
Image		
Scope		
Assist		
Marker		
Audio		
CC		
UMD		
System		

CC Setting (Only available for SDI Signal)		
Sub Menu	Settings	Setting Option Description
Channel Select	Channel 1	Select single channel SDI1 CC
	Channel 2	Select single channel SDI2 CC
	Channel 3	Select single channel SDI3 CC
	Channel 4	Select single channel SDI4 CC
CC Mode	OFF	Turn off CC
	708	Select 708 Mode
	608	Select 608 Mode
CC 608	CC 1	608 select CC 1 type
	CC 2	608 select CC 2 type
	CC 3	608 select CC 3 type
	CC 4	608 select CC 4 type
CC 708	Service 1	708 select Service 1 type
	Service 2	708 select Service 2 type
	Service 3	708 select Service 3 type
	Service 4	708 select Service 4 type
	Service 5	708 select Service 5 type
	Service 6	708 select Service 6 type

## UMD Settings:

Status	UMD Display	OFF
VPID/HDMI Status	UMDColor	White
Config	UMD Protocol	TSL 3.1
Function	UMD Character 1	Channel1
Source	UMD Character 2	Channel2
Color	UMD Character 3	Channel3
Image	UMD Character 4	Channel4
Scope	UMD ID	0
Assist	UMD Screen ID	0
Marker	UMD Display ID	0
Audio	Baud Rate	38400
CC	LED Tally	Off
<b>UMD</b>	UMD Tally Color	RG
System	Tally Source	TSL
	Port Number	3000

UMD Settings		
Sub Menu	Settings	Setting Option Description
UMD Display	ON	Turn on UMD display
	OFF	Turn off UMD display
UMD Color	Green	UMD character display green
	Red	UMD character display red
	White	UMD character display white
	Black	UMD character display black
UMD protocol	Local	Users can customize the UMD character
	TSL3.1	Select TSL3.1
	TSL4.0	Select TSL4.0
	TSL5.0	Select TSL5.0
		(TSL3.1/TSL4.0 use RS422 interface, 8bit data, 1 stop, even parity, 38400 baud)

		(TSL5.0 use LAN interface, the default IP address of the monitor: 192.168.1.155)
UMD Character 1	Channel 1	UMD name of the single picture mode or Win1 in Quad mode (Note: UMD protocol should select Local)
UMD Character 2	Channel 2	UMD name of the Win2 in Quad mode (Note: UMD protocol should select Local)
UMD Character 3	Channel 3	UMD name of the Win3 in Quad mode (Note: UMD protocol should select Local)
UMD Character 4	Channel 4	UMD name of the Win4 in Quad mode (Note: UMD protocol should select Local)
UMD ID	0-126	The IMD address can be set anywhere between 0-126. The IMD address can set to different IMD addresses of the machine when multiple machines are cascaded. This function can used to distinguish different machines by IMD address when using RS-422 system remote control different machines.
UMD Screen ID	0-65534	IMD Screen ID can be set anywhere between 0-65534 (Only available in TSL5.0)
UMD Display ID	0-65531	IMD Display ID can be set anywhere between 0-65531 (Only available in TSL5.0)
Baud Rate	4800 9600 19200 38400 57600 115200	Select the baud rate (Default baud rate is 38400)
LED Tally	ON OFF	Turn on Led Tally Turn off Led Tally
UMD Tally Color	OFF RG GR RGY	Turn off OSD Tally OSD Tally select RG mode OSD Tally select GR mode OSD Tally select RGY mode
Tally Source	GPI	Select GPI Select

	TSL	Select TSL protocol control
Port Number	3000	Network Port Number 3000

## System Settings:

Status	Key Lock	Off
VPID/HDMI Status	Language	English
Config	Menu Display Timer	30
Function	Menu Position	Right Bottom
Source	OSD Blend	15
Color	DPMS	Always on
Image	Key Led	Level 1
Scope	Source Info	Off
Assist	USB Mode	USB Flash Disk
Marker	USB Upgrade	> >
Audio	DHCP	Off
CC	Gateway	192.168.001.001
UMD	Subnet Mask	255.255.255.000
System	IP Address	192.168.001.115

System Settings		
Sub Menu	Settings	Setting Option Description
Key Lock	OFF	Turn off Key Lock
	ON	Turn on Key Lock
Language	Chinese	Setting the language of the menu
	English	
Menu Display Timer	5-60	Setting the menu display timer
Menu Position	Top Left	Selecting the position of the menu
	Top Right	
	Bottom Left	
	Bottom Right	



OSD Blend	0-30	Setting the transparency of the menu
DPMS	Always ON	Screen backlight is always turn on
	Light Sleep	Screen backlight will turn off if no signal or no operation for 1 minute
	Deep Sleep	The monitor will enter Eco mode if no signal or no operation for 1 minute, need press power button to wake up
Key Led	OFF	Setting the level of the Key indicator
	Level 1	
	Level 2	
Source Info	OFF	Turn off source info
	ON	Turn on source info
USB Mode	USB Flash Disk	Upgrading the monitor with USB Flash Disk
	PC	Upgrading the monitor with USB connect with PC
USB Upgrade	FPGA	Upgrading FPGA by USB
	LUTs	Upgrading LUTs by USB
	OSD	Upgrading OSD by USB
	EDP	Upgrading EDP by USD
	APP	Upgrading APP by USB
	ALL	Upgrading All firmware by USB
DHCP	OFF	Turn off DHCP
	ON	Turn on DHCP
Gateway	255.255.255.00	Setting monitor gateway
	0	Default gateway: 192.168.001.001
Subnet Mask	255.255.255.00	Setting monitor subnet mask
	0	Default subnet mask: 255.255.255.000
IP Address	192.168.1.155	Setting monitor IP address
		Default IP address: 192.168.1.155

## SDI or HDMI Input Source Switching

### 一、 S1/S2/S3/S4 Key & Config 1-5 Settings

Konvision monitor supports the input of a variety of signals. Since the UHD signals have various formats and need to set parameters such as color gamut, EOTF etc. Therefore, Konvision monitor uses S1/S2/S3/S4 keys to replace SDI & HDMI buttons and realize those settings.

Users can set the input signals to Config1-5, and then set the Config1-5 corresponding to S1/S2/S3/S4 key. After saving, press the S1/S2/S3/S4 key to switch different signals.

Note: After modifying the parameters, be sure to save the Config in the menu. Otherwise, it still load the previous Config when press S1-S4 keys.

### 二、 Single Picture Display

Set SDI3 to Config1, S1 to Config1, single picture mode display SDI3 signal.

The steps are as follows:

1. Connect the monitor signal to SDI 3 BNC
2. Press MENU/EXIT key, then switch to Source option, select Display Mode to Single, Input Mode to Single Input, Win1 Source to SDI3

Status	Display Mode	Single
VPID/HDMI Status	Input Mode	Single Input
Config	Win1 Source	SDI3
Function	Win2 Source	SDI2
Source	Win3 Source	SDI3
Color	Win4 Source	HDMI
Image	SDI1 Rename	SDI1
Scope	SDI2 Rename	SDI2
Assist	SDI3 Rename	SDI3
Marker	SDI4 Rename	SDI4

3. Then, switch to Config option and select Config1, press the Knob button to save

Status	Load Config	>>
VPID/HDMI Status	Save Config	>>
Config	Export Config	Config1
Function	Import Config	Config2
Source	Power On Config	Config3
Color	Config1 Name	Config4
Image	Config2 Name	Config5
Scope	Config3 Name	Config3
Assist	Config4 Name	Config4
Marker	Config5 Name	Config5
Audio	Factory Reset	>>
CC		
UMD		
System		

4. After saving, press the S1 key to call Config1. At this time, the screen will display the SDI3 signal

### 三、Quad Split Mode

Win1	Win2
Win3	Win4

Win1 display SDI1, Win2 display SDI2, Win3 display SDI3, Win4 display HDMI. Set it to Config1, S1 to Config1, and quad display.

The steps are as follows:

1. Connect the monitor signal to SDI/HDMI BNC
2. Press MENU/EXIT key, then switch to Source option, select Display Mode to Quad, Input Mode to Quad Input, Win1 Source to SDI1, Win2 Source to SDI2, Win3 Source to SDI3, Win4 Source to HDMI

Status	Display Mode	QUAD
VPID/HDMI Status	Input Mode	Quad Input
Config	Win1 Source	SDI1
Function	Win2 Source	SDI2
Source	Win3 Source	SDI3
Color	Win4 Source	HDMI
Image	SDI1 Rename	SDI1
Scope	SDI2 Rename	SDI2

3. Then, switch to Config option and select Config1, press the Knob button to save

Status	Load Config	>>
VPID/HDMI Status	Save Config	>>
Config	Export Config	Config1
Function	Import Config	Config2
Source	Power On Config	Config3
Color	Config1 Name	Config4
Image	Config2 Name	Config5
Scope	Config3 Name	Config3
Assist	Config4 Name	Config4
Marker	Config5 Name	Config5

4. After saving, press the S1 key to call Config1. At this time, the screen will display the quad split mode

#### 四、SDI SQD/2SI display 4K signal

The operation method is same for SDI 2SI and SDI SQD, only 8K version monitor support quad link  
12G SDI SQD/2SI display 8K signal

Win1(SDI1)	WIn2(SDI2)
WIn3(SDI3)	WIn4(SDI4)

Quad link SDI SQD or 2SI

Set Quad link SDI SQD display 4K signal to Config1, S1 key to Config1

The steps are as follows:

1. Connect the monitor signal to SDI1/2/3/4 BNC
2. Press MENU/EXIT key, then switch to Source option, select Display Mode to Single, Input Mode to SDI SQD

Status	Display Mode	Single
VPID/HDMI Status	Input Mode	SDI SQD
Config	Win1 Source	SDI3
Function	Win2 Source	SDI2
Source	Win3 Source	SDI3
Color	Win4 Source	HDMI
Image	SDI1 Rename	SDI1
Scope	SDI2 Rename	SDI2

3. Then, switch to Config option and select Config1, press the Knob button to save

Status	Load Config	>>
VPID/HDMI Status	Save Config	>>
Config	Export Config	Config1
Function	Import Config	Config2
Source	Power On Config	Config3
Color	Config1 Name	Config4
Image	Config2 Name	Config5
Scope	Config3 Name	Config3
Assist	Config4 Name	Config4
Marker	Config5 Name	Config5

4. After saving, press the S1 key to call Config1. At this time, the screen will display the 4K signal (Quad link SDI SQD Mode)

## Configuration Settings Description

Except switch to different channels, the Config of the S1/S2/S3/S4 can also set other parameters, such as brightness, contrast, EOTF curve, color gamut and so on. Users can preset 5 config in the menu according to their requirement. After modifying the parameters, be sure to save the Config in the menu. Otherwise, it still load the previous Config when press S1-S4 keys.

Set Single Input HDMI to Config5, color space to U1\_Users, brightness to 80, S2 key to Config5

The steps are as follows:

1. Press MENU/EXIT key, then switch to Source option, select Display Mode to Single, Input Mode to Signal Input, Win1 Source to HDMI

Status	Display Mode	Single
VPID/HDMI Status	Input Mode	Single Input
Config	Win1 Source	HDMI
Function	Win2 Source	SDI2
Source	Win3 Source	SDI3
Color	Win4 Source	HDMI
Image	SDI1 Rename	SDI1
Scope	SDI2 Rename	SDI2

2. Switch the menu to Color option, and select color space to U1\_User1

Status	Color Ctrl	All Screen
VPID/HDMI Status	Channel Select	Win1
Config	Cross Partition Show	Auto
Function	Data Level	Auto
Source	Color Space	U1_User1
Color	EOTF	2.4
Image	Transfer Matrix	Auto
Scope	R Saturation	50

3. Switch the menu to Image and select Backlight to 80

Status	Backlight	80
VPID/HDMI Status	Aspect Ratio	Original Aspect
Config	Freeze	Off
Function	Over Scan	Off
Source	Mirror/Rotation	Off
Color	Blue Mode/Mono	Off
Image		
Scope		

4. Switch the menu to Function option and select S2 to Config5

Status	S1	Config1
VPID/HDMI Status	S2	Config5
Config	S3	Config3
Function	S4	Config4
Source	S Key Info	Off
Color	Function Preset	Preset 1

5. After setting, switch the menu to Config option and select the Save Config to Config5, press the Knob button to save.

Status	Load Config	>>
VPID/HDMI Status	Save Config	>>
Config	Export Config	Config1
Function	Import Config	Config2
Source	Power On Config	Config3
Color	Config1 Name	Config4
Image	Config2 Name	Config5
Scope	Config3 Name	Config3
Assist	Config4 Name	Config4

6. After saving, press the S2 key to call Config5. At this time, the screen will display the HDMI single picture mode, color space is U1\_User1, and brightness is 80.

## Function Keys Description

1. User can preset the Function keys F1/F2/F3/F4/F5 in the menu

Status	S1	Config1
VPID/HDMI Status	S2	Config2
Config	S3	Config3
Function	S4	Config4
Source	S Key Info	Off
Color	Function Preset	Preset 1
Image	F1	CC Mode
Scope	F2	Data Level
Assist	F3	Color Space
Marker	F4	EOTF
Audio	F5	Color Temp

2. Press F key once, the function key menu pops up, press F key again, then turn on or turn off the corresponding F key function. If press the S1-S4 key when F key menu pops up, users can switch different F key preset group.

Functions		
Change Preset:S1-S4		Preset 1
F1	CC Mode	Off
F2	Data Level	Auto
F3	Color Space	Rec709
F4	EOTF	2.4
F5	Color	6500K



# Warranty Card

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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 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

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