

KFM-5X series / KFM-6X series LCD Monitors

USER MANUAL

V2.1

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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

Konvision Shenzhen Konvision Technology Co,.Ltd www.konvision.com 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 of time.

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 makes 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

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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 multi-format SDI input, SD-SDI, HD-SDI, 3G SDI

- Support SMPTE425M-A/B 4:4:4 signals.

HDMI/DVI/VGA Input

- HDMI signal can be input via HDMI to DVI-I converter through DVI connector, DVI signal can be input through DVI connector, VGA signal can be input via VGA to DVI-I Converter through DVI connector.

Signal Source Loop Through

- Signal that linked to the input connector will be enlarged and linked to output connector. SDI reclock loop out ensure the signal without enervation.

PIP/PBP

- Two SDI inputs signals display simultaneously under PIP (picture in picture) and PBP (picture by picture) mode. One SDI input signal can be also displayed with another signal of VIDEO, S-VIDEO, COMPONENT, HDMI simultaneously, and showing two pictures on the screen.

SWAP Function

- In PIP/PBP mode, two pictures can be swapped between each other.

Color Temperature

- Different color temperatures can be selected freely

Image Size Setting

- The display mode is switchable among 16:9, 4:3, full screen, 1:1, and the original image proportion.

Marker Setting

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

HV Delay

- Display horizontal and vertical board and blanking area of SDI1 input signal.

Color Space

- Color space include: Rec 709、EBU、DCI P3 D65、DCI P3、Rec 2020、USER1、USER2、 USER3. (This function only available to KFM-6X)

Color Calibration

- This enable to calibrate imported color data of the image being measured by color analyzer. (This function only available to KFM-6X, specific instructions please contact with the dealer.)

Scan Mode

- Scan mode includes Full Scan, Over Scan, Under Scan.

Part Zoom In

- Zoom in any part of the picture, to watch picture details more clearly, and assist for focus.

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

brightness display blue, cyan, green, yellow, orange and red in turn.

Histogram

- YRGB histogram displays the hue distribution of the entire image under SDI input condition, can intuitively display exposure of the image, display R, G, B 3 channels independently.

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Vector scope

- Vector UV analysis for color bar signal input.

Pixel Measurement

- User can measure any pixel's specific position and RGB value, also can compare the YRGB value between any 2 pixels.

Time code

- Display SMPTE time code (LTC, VITC1, VITC2) under SDI1 input, it is used for identifying and synchronizing of video data streams.

Remote Control Function

- 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

Control method of Tally light

- 1. GPI port (control method: please look the GPI port description)
- 2. RS422 Port: support use TSL3.1 or TSL 4.0 protocol control the tally light



Stereo audio output.

(3) 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 about 2 seconds, can turn off the monitor, the indicator light turn red.

(4) SDI1 Button and Indicator

Press this button to select SDI1 signal input, indicator turns blue.

(5) SDI2 Button and Indicator

Press this button to select SDI2 signal input, indicator turns blue.

(6) ANALOG Button and Indicator Light

Press this button to select input signal between YPbPr、Video、 S-video, indicator turns blue.

(7) HDMI/VGA Button and Indicator Light

Press this button to select signal input among DVI/HDMI/VGA, indicator turns blue.

(8) F1-F5 Button and Indicator Light

F1-F5 these buttons can be used as shortcut buttons.

Press the F1-F5 buttons to select the corresponding function.

When the set button function item is set to off in the main menu, this buttons are invalid.

F1-F5 These button functions can be set in the menu Function key options.

(9) PIP/PBP Button

Press this button for window layout among single, PIP, PBP mode. In PIP/PBP

mode, one of the signal must be SDI1 input, the other can be any of SDI2, HDMI,

VGA, Video, etc.

(10) ZOOM/SWAP Button

At single mode: press this button to zoom in

At PIP/PBP mode: press this button to swap 2 windows rapidly.

(11) MENU Button

Press this button to display the OSD menu, and press it again to exit the menu.

Clear the Marker display.

Clear Display mode.

Turn off the shortcut menu.

(12) UP/IMAGE ADJ Button

When in OSD main menu, press this button to select up sub-menus.

When not in OSD menu, press this button to show backlight, brightness, and contrast respectively.

The display has the following changes:

Backlight → Brightness → Contrast

Backlight: The screen backlight brightness adjustment shortcut menu display, press the LEFT button or (RIGHT / VOLUME) button to adjust the brightness of the screen backlight.

Brightness: The image brightness adjustment shortcut menu is displayed. Press the LEFT button or the (RIGHT / VOLUME) button again to adjust the image brightness.

Contrast: The image contrast adjustment shortcut menu is displayed. Press the LEFT button or the (RIGHT / VOLUME) button again to adjust the image contrast.

(13) DOWN/WIN SEL Button

When entering the menu operation, press to select the menu item.

When the screen is in the PIP / PBP state, press this button to select one of the picture. In this case, you can press other buttons to set the parameters of the selected screen independently, without affecting the parameters of the other screen.

(14) LEFT Button

When entering the menu operation, press this button to select the menu item. When not in the menu operation, press this button to enter the volume adjustment shortcut menu.

When entering the shortcut menu, press this key to adjust the scroll bar to the left.

(15) RIGHT/VOLUME Button

When entering the main menu operation, press this button to select the sub menu to the right.

When entering the sub menu operation, press this button to adjust the parameters of the current sub menu item to the right.

When not in the menu operation, press this button to enter the volume adjustment shortcut menu.

When entering the shortcut menu, press this button to adjust the scroll bar to the right.

B: Rear View

KFM-1753W rear view port



KFM-1760D rear view port



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(1) DC 12V IN

12V DC power supply



Pin 1:GND Pin 2:NC(No connect) Pin 3:NC(No connect) Pin 4:12V

The interface pins are defined as:

Pin 1: Ground

Pin 2: NC

Pin 3: NC

Pin 4: +12V

(2) ON/OFF

Power button

(3) LAN

In shortcut functions: Turn the knob to adjust the value of Brightness, Contrast and Chroma respectively.

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)

(4) GPI

GPI interface:

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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	ТХ	RS232-TX, for MCU program upgrade, please contact
		the dealer for upgrade operation.
		When the program is not upgraded, the suspension is not
		connect.
5	RX	RS232-RX, for MCU program upgrade, please contact
		the dealer for upgrade operation.
		When the program is not upgraded, the suspension is 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

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(5) RS422(IN/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) VIDEO

Video signals input

(7) HDMI/DVI/VGA

HDMI/DVI/VGA input. DVI input, support DVI signal, HDMI signal (via HDMI-DVI

convertor), and VGA signal (via VGA-DVI convertor)

(8) SDI1(IN/OUT)

SDI1 inputs (3G/HD/SD-SDI auto detect), SDI Reclock loop through output, without enervation.

(9) SDI2(IN/OUT)

SDI2 inputs (3G/HD/SD-SDI auto detect), SDI Reclock loop through output, without enervation.

(10) AUDIO(IN/OUT)

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

(11) AC Faucet

Using for AC power connect

Menu Operation Menu Operation:

1. MENU Button:

Press the Menu button, the main menu will be displayed on the screen, and press the MENU button again to exit the menu.

When in sub-menu, press the MENU button to return to previous menu.

When in setting option, press the MENU button to return to exit.

2. UP and DOWN button:

When in the main menu or sub menu, the menu item can be selected by pressing the UP / DOWN button to select up / down functions.

3. LETF/(RIGHT/VOLUME) button:

When in the main menu, enter the sub menu by pressing RIGHT button.

When in the sub menu, the parameters can be adjusted by pressing the LETF / RIGH function button.

Menu Item Description

1. Main menu:

The main menu contains the following items:

Main menu	Menu item
Status	1
Function Key	1
Picture	1
Image	1
Audio	1
Marker	1
Scope	1
Embedded code	1
Layout	1
IMD	1
Alarm	1
Setup	1
Key Lock	1

2. Sub Menu:

Status:

Main Menu		Status
Status	Source&Format	SDI1 1920x1080I50
Function Key	Fh	28121Hz
Picture	Fv	50Hz
Image	Color Temp	6500
Audi⊙	Color Space	Rec 709
Marker	Image Size	FILL ASPECT
Scope	Scan Mode	100% Scan
Embedded code	Screen Saver	YES
Layout	Power Saving	YES
IMD	MCU Firmwave Version	XSDIM A Jun 10 2017
Alarm	DSP Firmwave Version	ı 7-0-19-2
Setup		
Key Lock		

Status	
Menu item	Description
Source&Format	Current window input signal and resolution
Fh	The current window input signal line frequency
Fv	The field frequency of the current window input signal
Color Temp	The current color temperature
Color Space	Current color space
Image Size	The image size of the current window input signal
Scan Mode	The current window is input to the signal scan mode
Screen Saver	System screen saver status
Power Saving	System power saving mode status
MCU Firmwave Version	CPU software version
DSP Firmwave Version	DSP software version

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Function Key:

Main Menu		Function Key
Status	F1	Image Size
Function Key	F2	Marker Enable
Picture	FЗ	Audio Level Meter
Image	F4	TimeCode Display
Audio	F5	Waveform Mode
Marker	GPI1	Blue Mode
Scope	GPI2	Red TALLY
Embedded code	GPI3	Green TALLY
Layout	GPI4	Marker Enable
IMD		
Alarm		
Setup		
Key Lock		

Function Key

Menu item	Setting	Description
F1	Image Size	The Function keys can be set to the
	No Definition	following functions: Image Size, No
	static frame	Definition, static frame, Time Code Display,
	Time Code Display	Audio Level Meter, Waveform Mode, Vector,
	Audio Level Meter	Focus Assist, Pixel Measurement, False
	Waveform Mode	Color, Zebra, Histogram, Picture Flip, Fast
	Vector	Mode, Blue Mode, Gray Mode, Marker
	Focus Assist	Setting
	Pixel Measurement	
	False Color	
	Zebra	
	Histogram	
	Picture Flip	
	Fast Mode	
	Blue Mode	

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Gray	Mode	

	Gray Mode	
	Marker Setting	
F2	Same as above	Same as above
F3	Same as above	Same as above
F4	Same as above	Same as above
F5	Same as above	Same as above
GPI1	Blue Mode	Can be set to the following functions:Blue
	Image Size	Mode, Image Size, Marker Display, No
	Marker Display	Definition, Red TALLY, Green TALLY, SDI1,
	No Definition	SDI2, HDMI, DVI, VGA, Video
	Red TALLY	
	Green TALLY	
	SDI1	
	SDI2	
	HDMI	
	VGA	
	Video	
GPI2	Same as above	Same as above
GPI3	Same as above	Same as above
GPI4	Same as above	Same as above



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Picture Setting:

Main Menu		Picture
Status	Backlight	040
Function Key	Picture Mode	Standard
Picture	Brightness	050
Image	Contrast	059
Audio	Sharpness	007
Marker	Colour	050
Scope	Hue	050
Embedded code	Colour Temp	6500K
Layout		
IMD		
Alarm		
Setup		
Key Lock		

Picture			
Menu item	Setting	Description	
Backlight	0-100	Backlight Adjustment	
	Standard	The parameters of brightness, contrast,	
Picture Mode	Customize	sharpness, color, hue in Factory Default.	
		Custom is for user definition	
Brightness	0-100	Brightness Adjustment	
Contrast	0-100	Contrast Adjustment	
Sharpness	0-15	Sharpness Adjustment	
Colour	0-100	Color Adjustment	
Hue	0-100	Hue Adjustment	
	5600K	Three modes of the fixed color	
	6500K	temperatures selection (5600K, 6500K,	
	9300K	9300K) and a custom selection.	
Colour Temp	Custom:	"Custom" is for user definition, to adjust	
	Red Gain 0-255	the gain value and offset value of Red,	
	Green Gain 0-255	Green and Blue. It will save the color	
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Blue Gain 0-255	temperature setting automatically.
Red offset 0-255	
Green offset 0-255	
Blue offset 0-255	

Image:

Main Menu		Image
Status	Image Size	FILL ASPECT
Function Key	Scan Mode	100%Scan
Picture	Part Zoom in	<right>Enter,<zoom>Part Zoom in</zoom></right>
Image	Gray Mode	OFF
Audio	Blue Mode	OFF
Marker	Fast Mode	OFF
Scope	H/V Delay	OFF
Embedded code	Log Mode	OFF
Layout	ColorSpace	Rec 709(Gamma2.4)
IMD	Start Color Correction	<right>to start color Correction</right>
Alarm		
Setup		
Key Lock		

Image		
Menu item	Setting	Description
Image Size	FILL ASPECT	original ratio of the signal
		source
	Full Screen	Full screen image
	1: 1	At 1:1 pixel-to-pixel display.
		It is invalid in PIP
		sub-screen and PBP mode.
	16: 9	16:9 aspect ratio
	4: 3	4:3 aspect ratio
Scan Mode	100% Scan	100% Image display
	Over Scan 5%	95% Image display
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	Under Scan 5%	105% image display
Part Zoom in	<right>Enter, <pip>Part</pip></right>	Zoom in any part of the
	Zoom in	picture, to watch picture
		details more clearly, and
		assist for focus.
Gray Mode	On	Monochrome mode with
	Off	black and white image
Blue Mode	On	Display in Blue only
	Off	
Fast Mode	On	Interlace scan without
	Off	converting into progressive
		scan
H/V Delay	On	Display horizontal & vertical
	Off	blanking area of SDI input
		signal
Log Mode	Off	Off the Log options
	S-LOG FULL	Select S-LOG FULL
	S-LOG Standard	Select S-LOG Standard
Gamma mode	Off	User can choose different
	Gamma 2.0	Gamma or off Gamma(This
	Gamma 2.2	function only available for
	Gamma 2.4	KFM-6X series)
	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 PQ	



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	S-Log3	
Color Space	Rec 709	Select Rec 709
	EBU	Select EBU
	DCI P3 D65	Select SMPTE C
	DCI P3	Select DCI P3
	Rec 2020	Select Rec 2020
	USER1	Select USER1
	USER2	Select USER2
	Bypass	Select Bypass
		(Remark 1: KFM-5X series
		only available Rec2020 and
		bypass.
		Remark 2: Users can load
		their own LUT files through
		user1 and user2 option. For
		specific instruction please
		contact with the local
		dealers)
Start Color Correction	<right> to start color</right>	In the menu of Color
	Correction	calibration, press right key
		to start color calibration,
		have to connect with color
		analyzer.
		Notice: restart the monitor
		to back from color
		calibration function when
		misled to the function.

Audio:

Main Menu	Audi∘	
Status	Volume	50
Function Key	Headphone Volume	50
Picture	Audio Out Channel	CH1&CH2
Image	Audio Level Meter	OFF
Audi⊙	Audio Display Channels	1-2Channels
Marker	Audio Display Mode	Vertical
Scope	Audi⊙ Phase Meter	OFF
Embedded code	Audio Phase Channel	CH1&CH2
Layout		
IMD		
Alarm		
Setup		
Key Lock		

Audio

Sub Menu Items	Setting	Description	
Volume	0-100	Speaker volume	
		adjustment	
Headphone Volume	0-100	Headphone volume	
		adjustment	
Audio Out Mode	Normal	Left and right channel out	
(only for SDI and HDMI/DVI	Left Channel Mute	normal	
signal)	Right Channel Mute	Left channel mute, just out	
		the right channel	
		Right channel mute, just out	
		the left channel	
Audio Out Channel	CH1&CH2	When in SDI Signal:	
(only for SDI/HDMI/DVI	CH3&CH4	SDI embedded audio select	
signal)	CH5&CH6	in CH1&CH2、CH3&CH4、	
	CH7&CH8	CH5&CH6、CH7&CH8.	
		When in HDMI Signal:	
		HDMI embedded audio	



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		select in CH1&CH2.	
Audio Level Meter	On	Turn on/off audio level	
(only for SDI/HDMI/DVI	Off	meter display	
signal)			
Audio Display Channels	1-4 Channel	When in SDI Signal:	
(only for SDI/HDMI/DVI	1-8 Channel	1-4 channels: 1-4 channels	
signal)	1-16 Channel	are displayed horizontally	
	9-16 Channel	or vertically on the left side	
	1-2 Channel	of the screen.	
	(Only HDMI signal)	1-8 channels: 1-8 channels	
		are displayed horizontally	
		or vertically on the left side	
		of the screen.	
		1-16 channels: 1-8	
		channels are displayed	
		horizontally or vertically on	
		the left side of the screen.	
		9-16 channels are	
		displayed horizontally or	
		vertically on the left side of	
		the screen.	
		When in HDMI Signal:	
		Only displayed 1-2 channel	
		horizontally or vertically on	
		the left side of the screen.	
Audio Display Mode	Horizontal	Audio level meter display	
(only for SDI/HDMI/DVI	Vertical	horizontal/vertical	
signal)			
Audio Phase Meter	ON	Turn on/off Audio Phase	



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(only for SDI/HDMI/DVI	OFF	Meter display		
signal)				
Audio Phase Channel	CH1&CH2	When in SDI Signal:		
(only for SDI/HDMI/DVI	CH3&CH4	SDI Audio Phase Channel		
signal)	CH5&CH6	can be selected in		
	CH7&CH8	CH1&CH2 、CH3&CH4 、		
		CH5&CH6、CH7&CH8.		
		When in HDMI Signal:		
		HDMI Audio Phase		
		Channel only can be		
		selected in CH1&CH2.		

Marker Setting:

Main Menu		Marker	Setting
Status	Marker	Enable	OFF
Function Key	Marker	Select	4:3
Picture	Target	Marker	Center
Image	Safety	Area	OFF
Audio	Marker	Level	Middle
Marker	Marker	Mat	Translucency
Scope			
Embedded code			
Layout			
IMD			
Alarm			
Setup			

Key Lock

Marker Setting		
Sub Menu Items	Setting	Description
Marker Enable	ON	All markers on
	OFF	All markers off





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Marker Select	OFF	NO marker display
	4:3	Marker display 4:3
	16:9	Marker display 16:9
	15:9	Marker display 15:9
	14:9	Marker display 14:9
	13:9	Marker display 13:9
	1.85:1	Marker display 1.85:1
	2.35:1	Marker display 2.35:1
Target Marker	ON	Turn on target marker
	OFF	Turn on center mark
	USER	Turn on user target tag
Safety Area	OFF	No Safety Area display
	80%	80% Safety Area display
	85%	85% Safety Area display
	88%	88% Safety Area display
	90%	90% Safety Area display
	93%	93% Safety Area display
Marker Level	White	Maker line is white
	Gray	Marker line is gray
	Dark	Marker line is dark
Marker Mat	OFF	Turn off Fill up the
		background beyond marker
	Transparency	Background beyond marker
		transparent
	Half	Background beyond marker
		filled up with gray
	Black	filled up with black

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Scope:

Main Menu		Scope
Status	Waveform Mode	OFF
Function Key	Waveform Alarm	100%
Picture	Waveform Scale	Digital
Image	Histogram Mode	OFF
Audio	Vector	OFF
Marker	Vector Scale	100%
Scope	Zebra	OFF
Embedded code	Zebra Level	95%
Layout	Pixel Measure	OFF
IMD	False Color	OFF
Alarm	focus Assist	OFF
Setup	Focus Gain	25
Key Lock	Focus Color	RED
	H Flip	OFF

Scope (only for SDI/HDMI/DVI signal)			
Sub Menu Items	Setting	Description	
Waveform Mode	OFF LUMA YUV FULL LUMA	Turn off the waveform mode Display Y(luminance) waveform Display YCbCr waveform Display Y (luminance) waveform, one-to-one correspondence be- tween its horizontal coordinates and image horizontal coordinates	
Waveform Alarm	84%-100%	Waveform alarm can be set at any percentage between 84%-100%, it will alarm when measured waveform reach or exceed the value you set and mark them with red	

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Scope (only for SDI/HDMI/DVI signal)

MI/DVI signal)	
Digital	Display in digital
IRE	Display in percentage
	of luminance
OFF	Turn off the histogram
LUMA	mode
RGB	Display luminance
	histogram
	Display R G B histogram
ON	Turn on/off vector
OFF	
100%	Vector 100% display
75%	Vector zoom out to 75%
	display
ON	Turn on/off zebra
OFF	
84%-100%	Zebra level can be set at
	any percentage between
	84%-100%, it will alarm
	when measured luminance
	reach or exceed the value
	you set and overlay display
	with red zebra stripes
ON	Turn on/off pixel measure
OFF	
ON	Turn on/off false color
OFF	
ON	Turn on/off focus assist
OFF	
0-31	Focus gainadjustment0-31
	Digital IRE OFF LUMA RGB ON OFF 100% 75% 0N OFF 0N OFF 84%-100% 4 0N OFF 84%-100%

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Focus ColorRedFocus color use RedGreenFocus color use GreenBlueFocus color use BlueWhiteFocus color use WhiteH FlipOnTurn on horizontal flipOffTurn off horizontal flip

Embedded code:

Main Menu		Embedde	ed code	
Status	TimeCode	Display		OFF
Function Key	TimeCode	Mode		LTC
Picture				
Image				
Audio				
Marker				
Scope				
Embedded code				
Layout				
IMD				
Alarm				
Setup				
Key Lock				

Embedded code (only for SDI signal)				
Menu item	Setting	Description		
Time Code Display	ON	Turn on/off Time code		
	OFF			
Time Code Mode	LTC	Time code display as LTC		
	VITC1	mode		
	VITC2	Time code display as		
		VITC1		
		Time code display as		
		VITC2		

Layout:

Main Menu	Layout	
Status	Layout	Single
Function Key	Main Window Source	SDI1
Picture	Current Source Rename	SDI1
Image		
Audio		
Marker		
Scope		
Embedded code		
Layout		
IMD		
Alarm		
Setup		
Key Lock		

Layout		
Menu item	Setting	Description
Layout	Single	Display only a single signal
		picture on screen
	PIP	Display two signals pictures
		simultaneously on screen,
		the sub picture in the main
		picture.
	Side by Side	Display two signals pictures
		side-by-side simultaneously
		on screen, the sub picture
		at the right side of the main
		picture.
		Note: In PIP/PBP mode,
		one of the signal must be
		SDI2, the other signal is



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	nznen Konvision Technology Co,	any of other input signals.
		Can display 2 SDI
		simultaneously.
Main Window Source	Video	Main Window select signal
	SDI1	input among
	SDI2	SDI1/SDI2/VGA/HDMII
	VGA	
	HDMI	
Second Window Source	Video	Main Window select signal
(this item shows in	SDI1	input among
PIP/PBP)	SDI2	SDI1/SDI2/VGA/HDMII
	VGA	
	HDMI	
PIP Size (this item shows in	Large	The second window is
PIP mode)	Middle	Large size
		The second window is
	Small	medium size
		The second window is
		small size
PIP position (this item	Left Top	The second window in the
shows in PIP mode)		left-top corner of screen.
	Right Top	The second window in the
		right-top corner.
	Center	The second window in the
		center.
	Right Bottom	The second window in the
		right-bottom corner.
	Left Bottom	The second window in the
		left-bottom corner.
	Custom	The second window is

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					adjusted by user
					When the user select this
					option, it will automatically
					pop up at the following
					"horizontal position" and
					"vertical position" menu
					items
H Position	0-100				Horizontal position
(this item shows when PIP					adjustment of
position select "Custom")					picture-in-picture's second
					window
V Position	0-100				Vertical position adjustment
(this item shows when PIP					of picture-in-picture's
position select "Custom")					second window
Alpha Blend	0-100				Adjustment of PIP's second
(this item shows in PIP					window and the main
mode)					window alpha blend
					degrees. When the value is
					0, the second window is
					translucent blend with the
					main window; when the
					value is 100, the second
					window blend directly to the
					main screen.
Swap	<right></right>	to	swap	two	In PIP and PBP, turn right
(this item shows in PIP/PBP	windows				the VOLUME knob to swap
mode)					the signal pictures between
					two windows (main window
					and second window).
Current signal rename	XXXXXXXX				The current signal rename


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	display characters can be
	arbitrarily set in 8
	"xxxxxxx".The setting
	process: Select the option
	to the UMD main screen
	character options, press the
	ZOOM/SWAP button, the
	option is displayed as
	"xxxxxxx ok". Meanwhile,
	the first character turned
	red, the user can press the
	LEFT or (RIGHT/VOLUME)
	button to select the desired
	character, after the
	completion of the first digit,
	press ZOOM/SWAP button,
	will jump to second
	characters at this time,
	second characters turn red,
	or press the LEFT and
	(RIGHT/VOLUME) button
	to select the desired
	character. In turn, the
	eighth character selection,
	when eighth characters
	after selection, and then
	press the (ZOOM/SWAP)
	button, the "OK" will
	become red, or press the
	LEFT and

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	(RIGHT/VOLUME) button,
	"OK" will turn yellow, then
	press the MENU button to
	save and exit can complete
	the main screen of UMD
	character set. When
	setting, only if the character
	"OK" is yellow, press the
	MENU key to exit will save
	the previous character
	setting successfully. If the
	"OK" character is not
	changed from red to yellow,
	then the MENU key is used
	to exit, and the characters
	set in front are not saved.



IMD:

Main Menu	IMD	
Status	UMD Display	OFF
Function Key	UMD ID	128
Picture	UMD Position	Bottom Center
Image	UMD Local Color	GREEN
Audio	UMD Main Window Char	UMD-WINO
Marker	UMD Second Window Char	UMD-WIN1
Scope	UMD PROTOCOL	TSL 3.1
Embedded code	OSD Tally Mode	RG
Layout	LED Tally	OFF
IMD	LED Tally Source	GPI
Alarm		
Setup		
Key Lock		

IMD		
Sub Menu Items	Setting	Description
	ON	Turn on/off the UMD
UMD Display	OFF	display
	128-255	UMD ID can be set any
		value from 128-255. It can
		be used for multidevice
		cascading, set different
		UMD ID for different
UMD ID		devices. In remote control
		situation, this function can

		be used for distinguishing	
		different devices so as to	
		remote control different	
		devices.	
UMD Position	Top Left	UMD display at Top Left	



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	Top Center	UMD display at Top Center
	Bottom Center	UMD display at Bottom
	Bottom Right	Center
		UMD display at Bottom
		Right
	GREEN	UMD character display in
	RED	green
	White	UMD character display in
UMD Local Color		red
		UMD character display in
		white
UMD Main Window Char	xxxxxxxx	UMD main picture
		characters can be arbitrarily
		set in 8 "XXXXXXXX".
		The setting process: Select
		the option to the UMD main
		screen character options,
		press the ZOOM/SWAP
		button, the option is
		displayed as "xxxxxxxx ok".
		Meanwhile, the first
		character turned red, the
		user can press the LEFT or
		(RIGHT/VOLUME) button
		to select the desired

	character,	after	the
	completion of	of the first	t digit,
	press ZOOM	1/SWAP b	outton,
	will jump	to s	econd
	characters	at this	time,



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		second characters turn red,
		or press the LEFT and
		(RIGHT/VOLUME) button
		to select the desired
		character. In turn, the
		eighth character selection,
		when eighth characters
		after selection, and then
		press the (ZOOM/SWAP)
		button, the "OK" will
		become red, or press the
		LEFT and
		(RIGHT/VOLUME) button,
		"OK" will turn yellow, then
		press the MENU button to
		save and exit can complete
		the main screen of UMD
		character set. When
		setting, only if the character
		"OK" is yellow, press the
		MENU key to exit will save
		the previous character
		setting successfully. If the
		"OK" character is not
		changed from red to yellow,
		then the MENU key is used
		to exit, and the characters
		set in front are not saved.
UMD Second Window Char	XXXXXXXX	Setting is same as UMD
(this item shows in PIP/PBP		Main Window Char.

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mode)		
UMD PROTOCOL	TSL3.1	Select TSL3.1
	TSL4.0	Select TSL4.0
	TSL5.0	Select TSL5.0
OSD Tally Mode	OFF	Turn off OSD Tally
	RG	OSD Tally select RG mode
	GR	OSD Tally select GR mode
	RGY	OSD Tally select RGY
		mode
LED Tally	ON	Turn on/off the LED Tally
	OFF	
LED Tally Source	GPI	Select GPI control
	TSL	Select TSL protocol control

Alarm:

Main Menu	Alarm	
Status	Alarm Display	OFF
Function Key	No Signal Alarm	OFF
Picture	Black Frame Alarm	OFF
Image	Static Frame Alarm	OFF
Audio	Audio Mute Alarm	OFF
Marker	Audio Level High Alarm	OFF
Scope	Audio Level Low Alarm	OFF
Embedded code	EDH Error Alarm	OFF
Layout	CRC Error Alarm	OFF
IMD		
Alarm		
Setup		
Key Lock		

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Alarm			
Menu item	Setting	Description	
Alarm Display	Off	Turn off/on the alarm	
	On	display	
No Signal Alarm	Off	Turn off/on the signal alarm	
	On		
Black Frame Alarm	Off	Turn off/on the black frame	
	On	alarm	
Static Frame Alarm	Off	Turn off/on the static frame	
	On	alarm	
Audio Mute Alarm	Off	Turn off/on the audio mute	
	On	alarm	
Audio Level High Alarm	Off	Turn off/on the audio level	
	On	high alarm	
Audio Level Low Alarm	Off	Turn off/on the audio level	
	On	low alarm	
EDH Error Alarm	Off	Turn off/on the EDH error	
	On	alarm	
CRC Error Alarm	Off	Turn off/on the CRC error	
	On	alarm	

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Setup:

Main Menu		Setup
Status	Language	English
Function Key	OSD Settings	=>
Picture	Format Display	Auto
Image	Power Saving	ON
Audio	Screen Saver	ON
Marker	Factory Reset	<right>to Factory Reset</right>
Scope		
Embedded code		
Layout		
IMD		
Alarm		
Setup		
Key Lock		

Setup			
Sub Menu Items	Setting	Description	
Language	Chinese	Select Chinese/English in	
	English	menu	
OSD Settings		Menu background from	
	0-100	opaque to completely	
		transparent selection	
	1-30	Menu disappear time when	
		no button operation	
	0-100	Menu horizontal position	
	0-100	adjust	
		Menu vertical position	
		adjust	
Format Display	OFF	Turn off the display info of	
		signal format.	

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	Shehzhen Konvision Teennology ee	
	ON	Turn on the display info of
		signal format.
	Auto	Automatically display info of
		signal format when signal
		changes, disappear after
		4s.
Power Saving	ON	Enter power-saving mode,
		the system will switch off
		some functions when the
	OFF	main input is without signal
		more than 10 minutes. This
		feature is invalid in
		PIP/PBP status.
Screen Saver	ON	The system will enter
		screen saver mode when
	OFF	the main input is without
		signal. This feature is
		invalid in PIP/PBP status.
Factory Reset	<right> to Factory Reset</right>	Turn right the VOLUME
		knob, the system restore
		to factory setting



Key Lock:

Main Menu		Key Lock	
Status	Key Lock		OFF
Function Key			
Picture			
Image			
Audio			
Marker			
Scope			
Embedded code			
Layout			
IMD			
Alarm			
Setup			
Key Lock			

Key Lock		
Menu item	Setting	Description
Key Lock	OFF	Key Lock Off
		When the key lock are turn
	ON	on,only MENU and
		VOLUME(LETF/RIGHT)
		knob,
		IMAGEADJ(UP/DOWN)
		knob can be operate, the
		rest can not.

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3. Function Key

	Function Key	
F1	Image Size	FILL ASPECT
F2	Marker Enable	OFF
FЗ	Audio Level Meter	OFF
F4	TimeCode Display	OFF
F5	Waveform Mode	OFF

Function Key		
Shortcut Menu	Set up	Setting Description
F1	Press main menu Function key	Press main menu Function key to
	to set	set
F2	Press main menu Function key	Press main menu Function key to
	to set	set
F3	Press main menu Function key	Press main menu Function key to
	to set	set
F4	Press main menu Function key	Press main menu Function key to
	to set	set
F5	Press main menu Function key	Press main menu Function key to
	to set	set

Function key menu operation instruction:

Function can be set in the main menu function key. Press function key to call function key menu, press function key again to turn on / off function key function. In the function key menu, use UP / DOWN key, you can also up / down function keys. If the function key function contains multiple modes, using the LETF / RIGHT keys, you can quickly select other functions as well. For example, the F1 function key function on the graph is the image size, while the image size function includes the original ratio, full screen, 1: 1, 16: 9 and 4: 3 modes. Using the LETF / RIGHT key, Quickly select one of the original scale, full screen, 1: 1, 16: 9, 4: 3 settings in the key menu.

Dual picture operation:

Continuous press PIP / PBP button, you can quickly from single-picture and dual-picture by the fast switch. In the dual picture, press the SWAP key, you can quickly exchange the left and right pictures. In the dual picture, press the WIN SEL button, you can select the picture window, at the same time, the selected window, you can also adjust the parameters alone, does not affect the other picture.

Pixel Measurements Operating Instructions:

Under SDI1 signal only, press this key to execute the key operation: Pixel measurement.

Pixel measurement: Press the MEASURE button, this time will enter the pixel measurement function. Press LEFT, (RIGHT / VOLUME) or (UP / IMAGE ADJ), (DOWN / WIN SEL) to move the large cross mark of the pixel measurement left / right / up and down to measure the position of any one pixel R, G, B value.

Pixel measurement using two pixel contrast: Press the MEASURE button, then enter the pixel measurement function. Press LEFT, (RIGHT / VOLUME) or (UP / IMAGE ADJ), (DOWN / WIN SEL) to move the large cross to the first pixel, then press the LEFT button and the (RIGHT / VOLUME) button , Mark the first pixel, then the pixel is marked with a small cross center, then continue to press the LEFT, (RIGHT / VOLUME) or (UP / IMAGE ADJ), (DOWN / WIN SEL) Will continue to move with a large cross mark, when the large cross mark center to move to another pixel you need to contrast, you can compare the difference between the current pixel and the previous marker pixel.

Measure Line Sample Y Y% Cb Cr R256 G256 B256 Current Ref-pos



Measure: Measure

Current: Current pixel

Ref-pos: Previous markup pixels

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Diff: The difference between the current pixel and the previous pixel

Line: The vertical position of the pixel

Sample: The horizontal position of the pixel

Y: The Y component value of the pixel (range between 0-1023)

Y%: The percentage of the Y component of the pixel relative to the maximum, i.e., (Y component value / 256) * 100%

Cb: The blue chroma component of the pixel

- Cr: The red color component of the pixel
- R: The red component value of the pixel (range between 0-255)
- G: The green component value of the pixel (range between 0-255)
- B: The blue component value of the pixel (range between 0-255)

SDI 2K signal display Description:

SDI in the 2K signal, the signal beyond the screen display, so look at the part of the image, you need the following operations:

1. Set the image size to 1: 1 display.

2. Press the LETF / RIGHT button, you can move the screen left and right, this can see the over screen image.

Factory Reset

This function is to reset the monitor to factory preset.

Please try to reset the monitor, when the following situations occur:

- 1. The monitor parameters are adjusted incorrect by user.
- 2. The monitor picture or sound is abnormal, and not due to hardware problem.



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

Main Menu		Setup
Status	Language	English
Function Key	OSD Settings	=>
Picture	Format Display	Auto
Image	Power Saving	ON
Audio	Screen Saver	ON
Marker	Factory Reset	<right>to Factory Reset</right>
Scope		
Embedded code		
Layout		
IMD		
Alarm		
Setup		
Key Lock		

- 1. Press the MENU button to enter the main menu options.
- 2. Press the DOWN button to select the setting option.
- 3. Press RIGHT to select the Set Sub menu Options.
- 4. Press DOWN to select factory reset option.

5. Press the RIGHT button prompts, the screen will refresh, wait for 3 seconds, press the POWER button to shut down.

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 LAN cable should be parallel connection for both two ends, for example 568B LAN cable, with pin definition:

orange-white, orange, green-white, blue, blue-white, green, brown-white, brown.

Rack quick installation process

1. See Figure 1, when the pull-type monitor is fully folded, press the front two white screws tighten at the same time, the monitor can be fixed, so installed in the slide screen will not slide out. When the pull-up monitor is fully folded, its height H1 is 1U high and the width W is the standard 19-inch rack-mounting width, with four screw holes on each of the front and rear sides to secure the machine stand, while the L length is Tune, the shortest is 470mm, the longest is 525mm.





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2. See Figure 2, when the pull-out monitor is pulled out horizontally, its extracted length L2 is 330mm.



Figure 2

3. See Figure 3, when the pull-out monitor stands up, its height H2 is 312mm.







Warranty Card

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

Maintenance Record

Date	Contents of	Repla	cement parts	Repairer	User
Dale	Reparation	Name	Qty		Signature

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

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omissions or any misunderstanding, our Company reserves the right of interpretation.