




Konvision KVM-5X, KVM-6X LCD Monitor User Manual

[Home](#) » [konvision](#) » Konvision KVM-5X, KVM-6X LCD Monitor User Manual 

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Contents

- [1 Notes](#)
- [2 Security](#)
- [3 Installation](#)
- [4 Features](#)
- [5 Parts and Functions](#)
- [6 OSD Menu](#)
- [7 Function Key Menu Operation Instructions](#)
- [8 Dual picture operation](#)
- [9 Pixel Measurements Operating Instructions](#)
- [10 Remote Control](#)
- [11 AC Power Supply Connection](#)
- [12 Documents / Resources](#)
 - [12.1 References](#)
- [13 Related Posts](#)

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.
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1. Please use the power cord recommended by the 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 needs.
 8. If there is no image or sound, please unplug the power cord from the AC outlet immediately. Please consult professionals if problem still exists 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 fall down, may cause severe 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.
 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 a 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.

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 the manufacturer.

Transportation

This monitor is precise equipment and needs professional packing materials to transport. Please do not 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 it in a timely manner.

1. This product smells of smoke and off-flavor.
2. When this product displays abnormal operating conditions, such as there is no picture or sound.
3. When any liquid is splashed into the product or product dropped.
4. When the product soaked or fell into the water.
5. When the product has been damaged or under other easy to get damaged circumstances.
6. 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 is used in a cold environment, the screen may appear a burn-in 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 off lighting conditions.

High Brightness Tally Indicator

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

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

- This unit detects the color system automatically.

3D Video Decoder

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

Motion-Adaptive Interlace to Progressive

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

10BIT Signal Processing

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

Support Multiformat SDI Signals

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

Y/C Input

- Decomposition for the luminance signal (Y) and chrominance signals (C) of the video signal can be input through this connector.

SDI Input

- Support multiformat SDI input, SD-SDI, HD-SDI, 3G SDI
- Support SMPTE425M-A/B 4:4:4 signals

YPbPr Input

- YPbPr video signal (Compatible YCbCr) can be input through this connector.

HDMI/DVI/VGA Input

- HDMI signal can be input via HDMI to DVI-I convertor through DVI connector, DVI signal can be input through DVI connector, VGA signal can be input via VGA to DVI-I convertor 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

PIPIPBP

- Two SDI inputs signals display simultaneously under PIP (picture i 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, 433, 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 blanking area of SDI input signal

Color Space

- Color space include: Rec 709, EBU, DCI P3 D65, DCI P3, Rec2020, USER. (This function only available to KVM-6X series)

Color Calibration

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

Scan Mode

- Scan mode includes Full Scan, Over Scan, Under Scan. Full scan displays the content of all areas of the input signal. Over scan displays 105% of the area of the input signal. Under scan displays 95% of the area of the input signal.

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)

- Display 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, C b Cr waveform. Luminance waveform will mark with red if over the value specified by user.

Focus Assist

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

False Color

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

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.

Vector scope

- Vector UV analysis for color bar signal input.

Over exposure

- Over exposure is to aid the cameraman accurately control the lighting to avoid over exposure by marking the brightness exceeds the user-specified range (95% by default) with the form of covering zebra pattern.

Pixel Measurement

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

Timecode

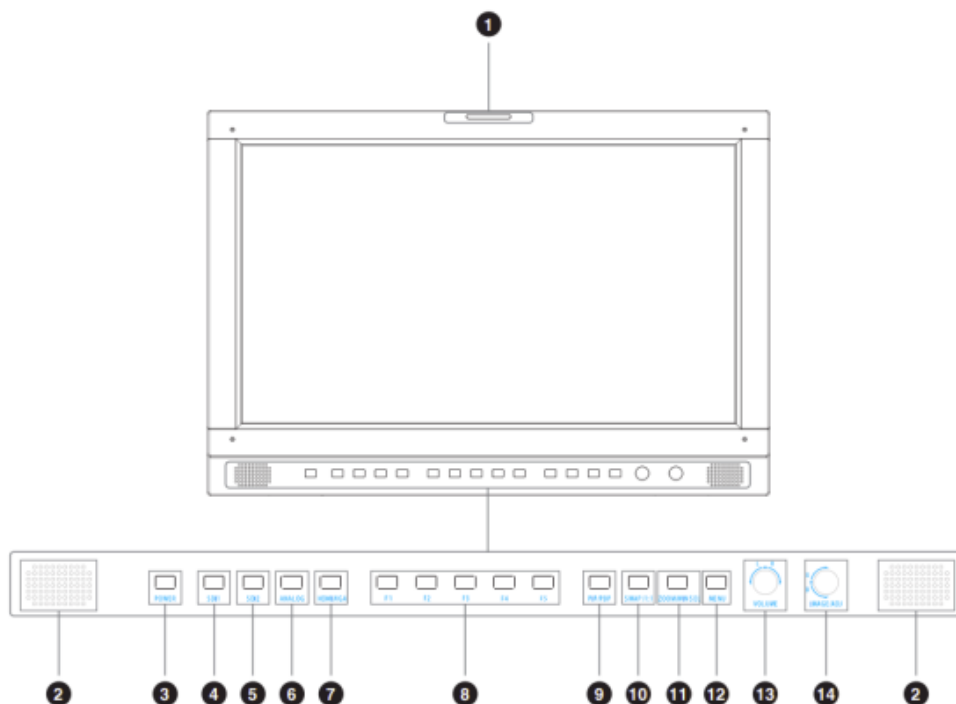
- Display SMPTE timecode (LTC, VITCA, VITC2) under SDI input, it is used for identifying and synchronizing of video data streams

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

Front View



1. Tally Indicator

There are two method to control the tally indicator:

1. GPI port.
2. RS422 port: controlled by TSL3.1 or TSL4.0 protocol.

2. Speaker

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 to turn off the monitor and the indicator light turns 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, those 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 signals must be SDI1 input, the other can be any of SDI2, HDMI, PC, Video, YP b PY, etc.

10. SWAP/1:1 Button

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

At single mode: press this button to image display at 1:1 pixel to pixel.

11. ZOOM/WIN SEL Button

At single mode: press this button to zoom in.

At PIP/PBP mode: press this button to select windows and adjust parameters of selected window.

12. MENU Button

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

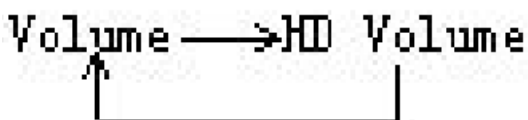
Clear the Marker display.

Clear Display mode.

Turn off the shortcut menu.

13. VOLUME(LEFT/RIGHT) Knob

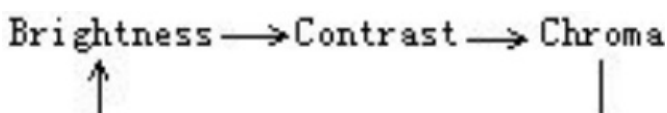
When in OSD main menu, press this button to select different main menu items, when in sub-menu, press this button to adjust the parameter of the selected item. When not in OSD menu, press this button for shortcut functions: volume, HD volume.



Volume: turn the knob to adjust speaker volume. **HD Volume:** turn the knob to adjust headphone volume.

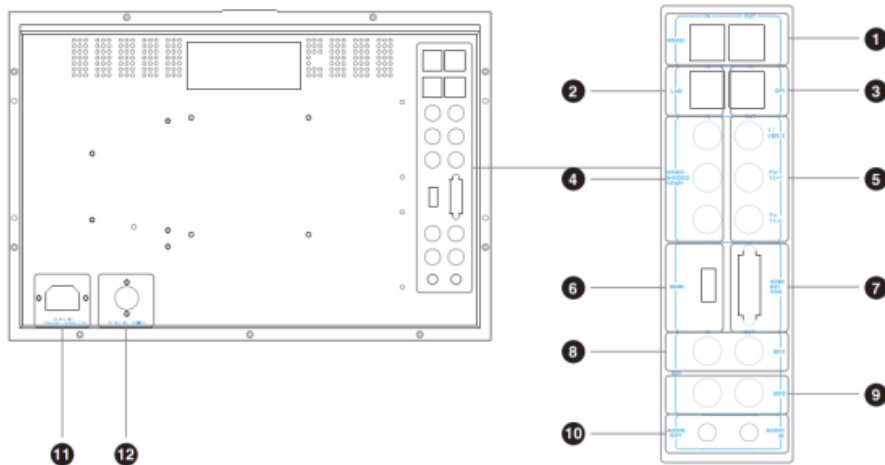
14. IMAGEADJ(UP/DOWN) Knob

When in OSD main menu, press this button to select different sub-menus. When not in OSD menu, press this button for shortcut functions: Brightness, Contrast and Chroma.



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

Rear View



1. RS422 IN and RS422 OUT

RS422 input and output interfaces. RS422 use TSL3.1 or TSL4.0 protocol to control. According to the protocol, it can realize UMD and Tally control.

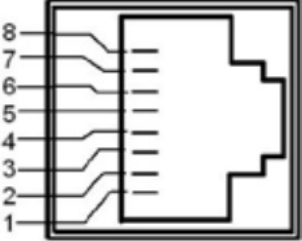
Diagram	Pin	RS422 IN Signal name	RS422 OUT Signal name
	1	GND	GND
	2	GND	GND
	3	Tx-	Tx-
	4	Rx+	Rx+
	5	Rx-	Rx-
	6	Tx+	Tx+
	7	NC	NC
	8	NC	NC

2. LAN

Ethernet port for remote network control. Thought this port, along with software" Konvision Device Controller", you can achieve remote controlling to the monitor easily. (remote control software & instructions please contact with the dealer)

3. GPI

GPI interface:

Diagram	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	TX	RS232-TX, for MCU program upgrade, please contact the dealer for upgrade operation. When the program is not upgraded, the suspension is not connected.
	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 connected.
	6	GPI4	when connect GND, GPI4 works, GPI4 function can be set in the menu function option
	7	NC	Not connect
	8	GND	Ground

4. COMPONENT/VIDEO/YC-IN

Analog video (composite), component (YCbCr, YPbPr, RGB) and S-Video (Y/C) signals input.

5. COMPONENT/VIDEO/YC-OUT

Analog video (composite), component (YCbCr, YPbPr, RGB) and S-Video (Y/C) signals loop through output.

6. HDMI

For HDMI signal input.

7. HDMI/DVI/VGA

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)

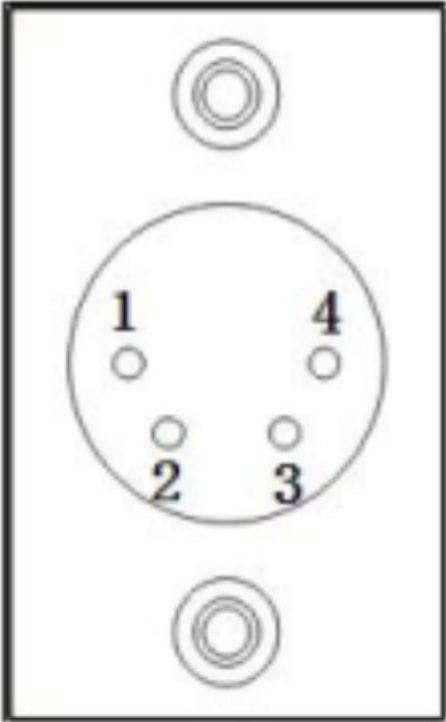
Audio in used for analog signal input, Audio out used for monitoring with 3.5mm earphone.

11. AC IN

100-240V AC power supply.

12. DC 12V IN

12V DC power supply.

	<p>The interface pins are defined as:</p> <p>Pin 1: GND</p> <p>Pin 2: NC</p> <p>Pin 3: NC</p> <p>Pin 4: +12V</p>
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OSD Menu

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. **IMAGEADJ(UPIDOWN) Knob:**

In the main menu or sub-menu, turn the VOLUME knob to select different items.

3. **VOLUME(LEFT/RIGHT) Knob:**

In the main menu, turn the VOLUME (right) knob to enter the sub-menu. In the sub-menu, turn VOLUME (right/left) knob to select the sub-menu item operation.

Menu Item Description

1. **Main Menu:**

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
Audio	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 Firmware Version XSDIM A Jun 10 2017
Alarm	DSP Firmware Version 7-0-19-2
Setup	
Key Lock	

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

Function Key:

Main Menu	Function Key	
Status	F1	Image Size
Function Key	F2	Marker Enable
Picture	F3	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		

Sub Menu	Description
Fi	The Function keys can be set to the following functions: Image Size, No Definition, static frame, Time Code Display, Audio Level Meter, Audio Phase, Waveform Mode, Vector, Focus Assist, Pixel Measurement, False Color, Zebra, Histogram, Picture Flip, Fast Mode, Blue Mode, Gray Mode, Marker Setting.(Note: Black stretch: When the function key is set to black stretch, press the function key to increase the brightness of the low-brightness part of the screen.)
F2	Same as above
F3	Same as above
F4	Same as above
F5	Same as above
GPI2	Can be set to the following functions: Blue Mode, Image Size, Marker Display, No Definition, Red TALLY, Green TALLY, SDI1, SDI2, HDMI, DVI, VGA, YPbPr, Video, S-Video.
GP12	Same as above
GP13	Same as above
GP14	Same as above

Picture:

Main Menu	Picture
Status	Backlight 013
Function Key	Data Levels Limit(64-940)
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	

Sub Menu	Description
Backlight	Backlight Adjustment – 0-100
Data Levels	<p>[Limit (64-940)]Select Limit (64-940), video level. [Extend (64-1023)] Select Extend (64-1023), ultra-white. [Full (0-1023)]Select Full (0-1023), full data level. [Custom]Custom is for user definition.</p> <ul style="list-style-type: none"> • Limit (64-940) • Extend (64-1023) • Full (0-1023) • Custom
Brightness	Brightness Adjustment 0-100
Contrast	Contrast Adjustment 0-100
Sharpness	Sharpness Adjustment 0-15
Colour	Saturation Adjustment 0-100
Hue	Color Adjustment..- 0-100
Colour Temp	<p>Three modes of the fixed color.temperatures selection (5600K, 6500K, 9300K) and a custom selection. “Custom” is for user definition, to adjust the gain value and offset value of Red, Green and Blue. It will save the color temperature setting automatically.</p> <ul style="list-style-type: none"> • 5600K • 6500K • 9300K <p>Custom: Red Gain 0-255Green Gain 0-255Blue Gain 0-255Red offset 0-255Green offset 0-255Blue offset 0-255</p>

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
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	
Alarm		
Setup		
Key Lock		

Sub Menu	Description
Image Size	<p>[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.</p> <ul style="list-style-type: none"> • FILL ASPECT • Full Screen • 1:1 • 16:9 • 4:3
Scan Mode	<p>[100% Scan]100% Image display.[Over Scan 5%]105% Image display. [Under Scan 5%]95% image display.</p> <ul style="list-style-type: none"> • 100% Scan • Over Scan 5% • Under Scan 5%
Part Zoom in	<p>Zoom in any part of the picture, to watch picture details more clearly, and assist for focus.Color Space</p> <ul style="list-style-type: none"> • <Right>Enter, <PIP>Part Zoom in
Gray Mode	<p>Monochrome mode with black and white image.</p> <ul style="list-style-type: none"> • On • Off
Blue Mode	<p>Display in Blue only.</p> <ul style="list-style-type: none"> • On • Off

Fast Mode	<p>Interlace scan without converting into progressive scan.</p> <ul style="list-style-type: none"> • On • Off
H/V Delay	<p>Display horizontal & vertical blanking area of SDI input signal.</p> <ul style="list-style-type: none"> • On • Off
Gamma Mode	<p>Users can choose different Gamma or turn it off (this function only available to KV M-6X series)</p> <ul style="list-style-type: none"> • Turn off • Gamma 2.0 • Gamma 2.2 • Gamma 2.4 • Gamma 2.6 • Rec.2100 HLG 1.0 • Rec.2100 HLG 1.1 • Rec.2100 HLG 1.2 • Rec.2100 HLG 1.3 • Rec.2100 HLG 1.4 • Rec.2100 HLG 1.5 • ST2084 PQ • S-Log3 (HDR) • Slog (SDR) • Slog2 (SDR) • Slog3 (SDR)

Color Space	<p>[Bypass] Color Space Choose Bypass. [Rec 709] Color Space Choose Rec709. [EBU] Color Space Choose EBU. [DCI P3 D65] Color Space Choose DCI P3 D65. [DCI P3] Color Space Choose DCI P3. [Rec2020]Color Space ChooseRec2020. [USER1]Color Space Choose User1. [USER2]Color Space Choose User2.</p> <ul style="list-style-type: none"> • Bypass • Rec 709 • EBU • DCI P3 D65 • DCI P3 • Rec2020 • USER1 • USER2 <p>Remark:</p> <ul style="list-style-type: none"> • KVM-5X series only support Rec709 and Bypass. • User1 and user2 option, support user loads their own LUT table, store in there, specific instructions please contact with the dealer.
Start Color Correction	<p>In the menu of Color calibration, press right key to start color calibration, must connect with color analyzer to start color calibration. Notice: restart the monitor to back from color calibration function when misled to the function.</p> <ul style="list-style-type: none"> • <Right> to start color Correction

Audio:

Main Menu	Picture
Status	Backlight 013
Function Key	Data Levels Limit(64-940)
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	

Sub Menu	Description
Volume	Speaker volume adjustment. 0-100

Headphone Volume	Headphone volume adjustment 0-100
Audio Out Mode	<p>[Normal] Right Channel Mute Left and right channel out normal. [Left Channel Mute] Left channel mute, just out the right channel. [Right Channel Mute] Right channel mute, just out the left channel.</p> <ul style="list-style-type: none"> • Normal • Left Channel Mute • Right Channel Mute <p>Remark: Only for SDI and HDMI/DVI signal.</p>
Audio Out Channel	<p>When in SDI Signal:SDI embedded audio select inCH1&CH2, CH3&CH4, CH5&CH6, CH7&CH8.When in HDMI Signal:HDMI embedded audio selects inCH1&CH2.</p> <ul style="list-style-type: none"> • CH1&CH2 • CH3&CH4 • CH5&CH6 • CH7&CH8 <p>Remark: Only for SDI and HDMI/DVI signal.</p>
Headphone Volume	<p>Turn on/off audio level meter display.</p> <ul style="list-style-type: none"> • On • Off <p>Remark: Only for SDI and HDMI/DVI signal.</p>
Audio Display Channels	<p>When in SDI Signal:1-4 channels: 1-4 channels are displayed horizontally or vertically on the left side of the screen.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. 1-4 Channel</p> <ul style="list-style-type: none"> • 1-8 Channel • 1-16 Channel • 9-16 Channel • 1-2 Channel <p>Remark: Only for SDI and HDMI/DVI signal</p>

Audio Display Mode	<p>[Horizontal] Audio level meter display. [Vertical] horizontal/vertical.</p> <ul style="list-style-type: none"> • Horizontal • Vertical <p>Remark: Only for SDI/HDMI/DVI signal.</p>
Audio Phase Meter	<p>Turn on/off Audio Phase Meter display.</p> <ul style="list-style-type: none"> • ON • OFF <p>Remark: Only for SDI/HDMI/DVI signal.</p>
Audio Phase Channel	<p>When in SDI Signal: SDI Audio Phase Channel can be selected in CH1&CH2, CH3&CH4, CH5&CH6, CH7&CH8. When in HDMI Signal: HDMI Audio Phase Channel only can be selected in CH1&CH2.</p> <ul style="list-style-type: none"> • CH1&CH2 • CH3&CH4 • CH5&CH6 • CH7&CH8 <p>Remark: only for SDI and HDMI/DVI signal.</p>
Audio Phase Channel	<p>Turn on/off audio level meter display.</p> <ul style="list-style-type: none"> • On • Off <p>Remark: only for SDI and HDMI/DVI signal.</p>

Marker:

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		
Alara		
Setup		
Key Lock		

Sub Menu	Description
Marker Enable	<p>[ON]All markers on.[OFF]All markers off.</p> <ul style="list-style-type: none"> • ON • OFF
Marker Select	<p>[OFF]NO marker displays.[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.</p> <ul style="list-style-type: none"> • OFF • 4:3 • 16:9 • 15:9 • 14:9 • 13:9 • 1.85:1 • 2.35:1
Target Marker	<p>[ON]Turn on target marker.[OFF]Turn on center mark.[USER]Turn on user target tag.</p> <ul style="list-style-type: none"> • ON • OFF • USER

Safety Area	<p>[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.</p> <ul style="list-style-type: none"> • OFF • 80% • 85% • 88% • 90% • 93%
Marker Level	<p>[White] Marker line is white.[Gray] Marker line is gray.[Black]Marker line is black.</p> <ul style="list-style-type: none"> • White • Gray • Black
Target Marker	<p>[OFF]Turn off Fill up the background beyond marker. [Gray] Background beyond marker is gray. [Black] Background beyond marker is black. [Half Transparency] Background beyond marker is half transparent.</p> <ul style="list-style-type: none"> • OFF • Gray • Black • Half Transparency

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

Sub Menu	Description
Waveform Mode	<p>[OFF] Turn off the waveform mode. [LUMA] Display Y(luminance) waveform. [YUV] Display YCbCr waveform. [FULL LUMA] Display Y (luminance) waveform, one-to-one correspondence between its horizontal coordinates and image horizontal coordinates.</p> <ul style="list-style-type: none"> • OFF • LUMA • YUV • FULL LUMA
Waveform Alarm	<p>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.</p> <ul style="list-style-type: none"> • 84%-100%
Waveform Scale	<p>[Digital] Display in digital. [IRE] Display in percentage of luminance.</p> <ul style="list-style-type: none"> • Digital • IRE
Histogram Mode	<p>[OFF] Turn off the histogram mode. [LUMA] Display luminance histogram. [RGB] Display RGB histogram.</p> <ul style="list-style-type: none"> • OFF • LUMA • RGB
Vector	<p>Turn on/off vector.</p> <ul style="list-style-type: none"> • ON • OFF
Vector Scale	<p>[100%] Vector 100% display. [75%] Vector zoom out to 75% display.</p> <ul style="list-style-type: none"> • 100% • 75%
Zebra	<p>Turn on/off zebra.</p> <ul style="list-style-type: none"> • ON • OFF

Zebra Level	<p>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.</p> <ul style="list-style-type: none"> • 84%-100%
Pixel Measure	<p>Turn on/off pixel measure.</p> <ul style="list-style-type: none"> • ON • OFF
False Color	<p>Turn on/off false color.</p> <ul style="list-style-type: none"> • NO. • OFF
Focus Assist	<p>Turn on/off focus assist.</p> <ul style="list-style-type: none"> • ON • OFF
Focus Gain	<p>Focus gain adjustment 0-31.</p> <ul style="list-style-type: none"> • 0-31
Focus Color	<p> [Red] Focus color use Red. [Green] Focus color use Green. [Blue] Focus color use Blue. [White] Focus color use White. </p> <ul style="list-style-type: none"> • Red • Green • Blue • 0White
H Flip	<p>Turn on/off Horizontal flip.</p> <ul style="list-style-type: none"> • NO. • OFF

Embedded code: (Only for SDI signal)

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

Sub Menu	Description
Time Code Display	Turn on/off Time code. <ul style="list-style-type: none"> • ON • OFF
Time Code Mode	[LTC]Time code display as LTC mode. [VITC1]Time code display as VITC1. [VITC 2] Time code display as <ul style="list-style-type: none"> • VITC2. • LTC • VITC1 • 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		

Sub Menu	Description
Layout	<p>[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.</p> <ul style="list-style-type: none"> • Single • PIP • Side by Side <p>Remark: In PIP/PBP mode, one of the signals must be SDI1, the other signal is any of other input signals. Can display 2 SDI simultaneously.</p>
Main Window Source	<p>Main Window select signal input among Video/ S-Video/ YPbPr/SDI1/SDI2/VGA/ HDMI</p> <ul style="list-style-type: none"> • Video • S-Video • YPbPr • SDI1 • SDI2 • VGA • HDMI • DVI <p>Remark: YPbPr is compatible with RGB, YCbCr, YPbPr.</p>

Second Window Source	<p>Second Window select signal input among Video/ S-Video/ YPbPr/SDI1/SDI2/VGA/HDMI</p> <ul style="list-style-type: none"> • Video • S-Video • YPbPr • SDI1 • SDI2 • VGA • HDMI • DVI <p>Remark:</p> <ol style="list-style-type: none"> 1. YPbPr is compatible with RGB, YCbCr, YPbPr. 2. This item shows in PIP/PBP.
PIP Size	<p>[Large]The second window is Large size. [Middle] The second window is medium size. [Small] The second window is small size.</p> <ul style="list-style-type: none"> • Large • Middle • Small <p>Remark:</p> <ol style="list-style-type: none"> 1. This item shows in PIP.
PIP position	<p>[Left Top] The second window in the 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 adjusted by user. When the user selects this option, it will automatically pop up at the following “horizontal position” and “vertical position” menu items.</p> <ul style="list-style-type: none"> • Left Top • Right Top • Center • Right Bottom • Left Bottom • Custom
H Position	<p>Horizontal position adjustment of picture-in-picture’s second window.</p> <ul style="list-style-type: none"> • 0-100 <p>Remark:</p> <p>This item shows when PIP position selects “Custom”</p>

V Position	Vertical position adjustment of picture-in-picture's second window.0-100Remark:This item shows when PIP position selects "Custom"
Alpha Blend	Adjustment of PIP's second window and the main 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. <ul style="list-style-type: none"> 0-100
Swap	In PIP and PBP, turn right the VOLUME knob to swap the signal pictures between two windows (main window and second window). <ul style="list-style-type: none"> <Right> to swap two windows Remark: This item shows in PIP/PBP mode.
Current Source Rename	The current signal rename display characters can be arbitrarily set in 8 "xxxxxxx". The setting process: Select the option to the character option, press the VOLUME (LEFT /RIGHT) knob, the option is displayed as "xxxxxxx ok", and the first character becomes red, the user can rotate VOLUME (LEFT/RIGHT) Button to select the desired character. After the first bit is finished, press the VOLUME (LEFT/RIGHT) knob, the second character will be skipped, the second character will be red, and the VOLUME (LEFT/RIGHT) Select the desired character, and so on, the eighth character selection, when the eighth character selection is good, press the VOLUME (LEFT/RIGHT) knob, then "ok" will turn red, rotate VOLUME (LEFT/RIGHT) Knob to "ok" will turn yellow, then press the MENU button to save the exit can be completed UMD main screen character settings. In the setting. only the character "ok" for the yellow state press the MENU button to exit will make the previous character settings saved successfully. If you do not change the "ok" character from red to yellow and press MENU to exit, the previously set characters 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		

Sub Menu	Description
UMD Display	<p>Turn on/off the UMD display.</p> <ul style="list-style-type: none"> • ON • OFF
UMD ID	<p>UMD ID can be set any value from 128-255. It can be used for multidevice cascading, set different UMD ID for different devices. In remote control situation, this function can be used for distinguishing different devices so as to remote control different devices.</p> <ul style="list-style-type: none"> • 128-255
UMD Position	<p>[Top Left]UMD display at Top Left. [Top Center] UMD display at Top Center.[Bottom Center]UMD display at Bottom Center. [Bottom Right]UMD display at Bottom Right.</p> <ul style="list-style-type: none"> • Top Left • Top Center • Bottom Center • Bottom Right
UMD Local Color	<p>[GREEN]UMD character display in green. [RED]UMD character display in red. [White] UMD character display in white.</p> <ul style="list-style-type: none"> • GREEN • RED • White
UMD Main Window Char	<p>It can be set any character in "xxxxxxx". Setup process: Select the UMD Main Window item, press VOLUME knob, it shows "XXXXXXXX ok", meanwhile, the first character becomes red, user can select the character you need by rotating the VOLUME knob (Left/Right), press the VOLUME knob after finishing first character, it will turn to the second character, select the character you need same as first character, it's also applied to other characters. After finishing selecting the 8th character, press the VOLUME knob, the "ok" will turn red, rotate the VOLUME knob to make the "ok" turn yellow, press MENU to save and exit. Only the "ok" turn yellow, it will save successfully when press MENU, otherwise, it will not save.</p>
UMD Second Window Char	<p>Setting is same as UMD Main Window Char.</p> <ul style="list-style-type: none"> • xxxxxxxx <p>Remark: This item shows in PIP.</p>
Layout	<p>TSL3.1]Select TSL3.1.[TSL4.0]Select TSL4.0.[TSL5.0]Select TSL5.0.</p> <ul style="list-style-type: none"> • TSL3.1 • TSL4.0 • TSL5.0

OSD Tally Mode	<p>[OFF]Turn off OSD Tally.[RG]OSD Tally select RG mode.[GR]OSD Tally select GR mode.[RGY]OSD Tally select RGY mode.</p> <ul style="list-style-type: none"> • OFF • RG • GR • RGY
LED Tally	<p>Turn on/off the LED Tally.</p> <ul style="list-style-type: none"> • ON • OFF
LED Tally Source	<p>[GPI]Select GPI control.[TSL]Select TSL protocol control.</p> <ul style="list-style-type: none"> • GPI • TSL
Static Frame Alarm	<p>Turn off/on the static frame alarm.</p> <ul style="list-style-type: none"> • Off • On
Audio Mute Alarm	<p>Turn off/on the audio mute alarm.</p> <ul style="list-style-type: none"> • Off • On
Audio Level High Alarm	<p>Turn off/on the audio level highalarm.</p> <ul style="list-style-type: none"> • Off • On
Audio Level Low Alarm	<p>Turn off/on the audio level low alarm.</p> <ul style="list-style-type: none"> • Off • On
EDH Error Alarm	<p>Turn off/on the EDH error alarm.</p> <ul style="list-style-type: none"> • Off • On
CRC Error Alarm	<p>Turn off/on the CRC error alarm.</p> <ul style="list-style-type: none"> • Off • On

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
IND		
Alarm		
Setup		
Key Lock		

Sub Menu	Description
Alarm Display	Turn off/on the alarm display. <ul style="list-style-type: none"> • Off • On
No Signal Alarm	Turn off/on the signal alarm. <ul style="list-style-type: none"> • Off • On
Black Frame Alarm	Turn off/on the black frame alarm. <ul style="list-style-type: none"> • Off • On
Static Frame Alarm	Turn off/on the static frame alarm. <ul style="list-style-type: none"> • Off • On
Audio Mute Alarm	Turn off/on the audio mute alarm. <ul style="list-style-type: none"> • Off • On
Audio Level High Alarm	Turn off/on the audio level high <ul style="list-style-type: none"> • Off • On
Audio Level Low Alarm	Turn off/on the audio level low alarm. <ul style="list-style-type: none"> • Off • On
EDH Error Alarm	Turn off/on the EDH error alarm. <ul style="list-style-type: none"> • Off • On
CRC Error Alarm	Turn off/on the CRC error alarm. <ul style="list-style-type: none"> • Off • On

Setup:

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

Sub Menu	Description
Language	<p>Select Chinese/English in menu.</p> <ul style="list-style-type: none"> • Chinese • English
OSD Settings	<p>[Transparency 0-100]Menu background from opaque to completely transparent selection.[OSD Timeout 1-30]Menu disappear time when no button operation. [H Position 0-100]Menu horizontal position adjust.[V Position 0-100] Menu vertical position adjust.</p> <ul style="list-style-type: none"> • Transparency 0-100 • OSD Timeout 1-30 • H Position 0-100 • V Position 0-100
Format Display	<p>[OFF]Turn off the display info of signal format. [ON] Turn on the display info of signal format. [Auto] Automatically display info of signal format when signal changes, disappear after 4s.</p> <ul style="list-style-type: none"> • OFF • ON
Power Saving	<p>Enter power-saving mode, the system will switch off some functions when the main input is without signal more than 10 minutes. This feature is invalid in PIP/PBP status.</p> <ul style="list-style-type: none"> • ON • OFF
Screen Saver	<p>The system will enter screen saver mode when the main input is without signal. This feature is invalid in PIP/PBP status.</p> <ul style="list-style-type: none"> • ON • OFF
Factory Reset	<p>Turn right the VOLUME knob, the system restore to factory setting.</p> <ul style="list-style-type: none"> • <Right> to Factory Reset

Key Lock:

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

Sub Menu	Description
Key Lock	<p>[OFF]Key Lock Off.[ON]When the key lock is turn on, only MENU and VOLUME(LEFT/RIGHT) knob, IMAGEA DJ (UP/DOWN) knob can be operate, the rest cannot.</p> <ul style="list-style-type: none"> • OFF • ON

Function Key

Function Key		
F1	Image Size	FILL ASPECT
F2	Marker Enable	OFF
F3	Audio Level Meter	OFF
F4	TimeCode Display	OFF
F5	Waveform Mode	OFF

Sub Menu	Description
Measure	Measure.
Current	Current pixel.
Ref-pos	Previous markup pixels.
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)
	The blue component value of the pixel (range between 0-255)

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



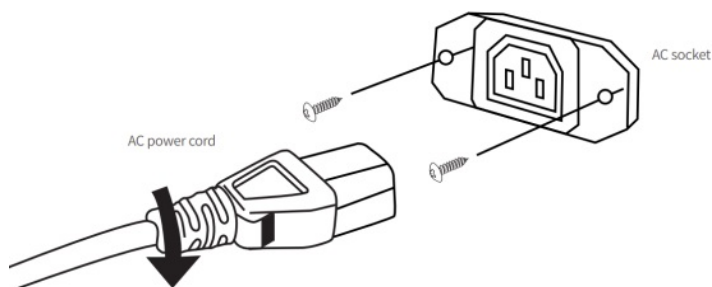
1. Press MENU button to enter main menu.
2. Turn VOLUME knob to item Setup and select it.
3. Turn IMAGE ADJ knob to Factory Reset and select it.
4. The screen will refresh after following the instruction of turning the VOLUME knob.
5. Power off the monitor, and must wait for at least 5 seconds, then restart the monitor. The monitor resets to factory preset.

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.

AC Power Supply Connection




Note:

1. Please hold the plug tight when you pull out the power cord.
2. Please do not connect the power supply before you insert the cable well.
3. Please use power cord match to monitors.



Documents / Resources

	Konvision KVM-5X, KVM-6X LCD Monitor [pdf] User Manual 672c1b7448d15, KVM-5X KVM-6X LCD Monitor, KVM-5X KVM-6X, LCD Monitor, Monitor
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References

- [K konvision.com](http://konvision.com)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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