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konvision Field Series KVM On Camera Monitor User Manual

V1.3.0

**Konvision Monitor
KVM On-Camera / Field series
USER MANUAL**

About This Manual
The instructions in this manual are for KVM Series On-Camera / Field LCD Monitors .
The following description use model KVM-0861W / KVM-0960W/ KVM-1060W pictures.
Please confirm the model number of the device before reading this manual.

Contents

Notes

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 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.

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 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 clothIf 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 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, and do not insert the plug. Contact a professional service staff to deal with timely.
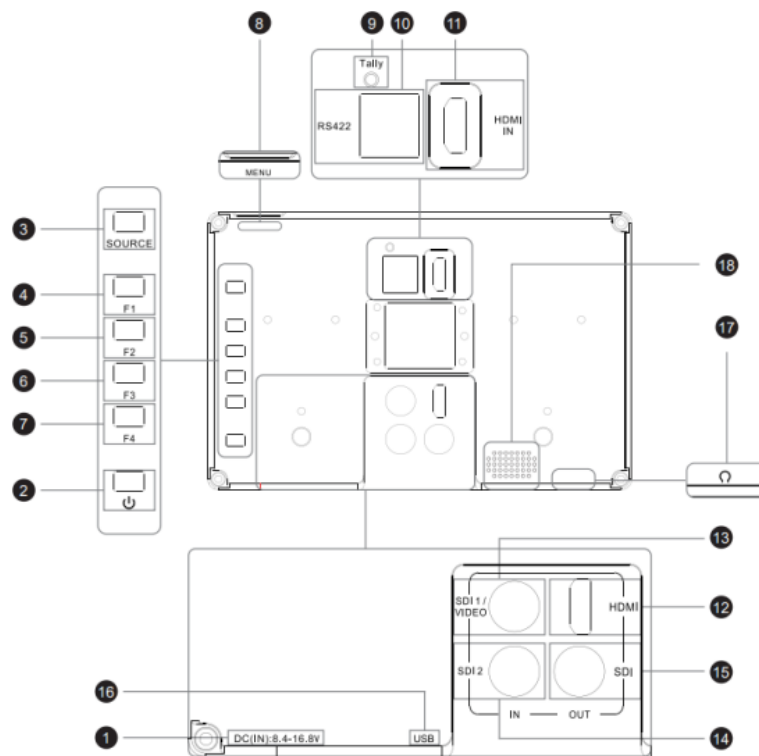A. This product smells of smoke and off-flavor.
B. When this product displays abnormal operating conditions, such as there is no picture or sound.
C. When any liquid splashed into the product or product dropped.
D. When the product soaked or fell into the water.
E. When the product has been damaged or under other easy to get damaged 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 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 manufactured with high precision technology, and a small number of pixels may not be able to show intermittent.
4. A slight vibration occurs when you touch the monitor.
5. Screen and cabinet will become warm gradually during operation.

Parts and Functions

Rear View (KVM-0861W)

1. DC IN

   DC power input interface, power input range 8.4~16.8V.
2. Power Button and Indicator

   When the DC power input or external DV battery is supplied 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 3 seconds to turn off the monitor and the indicator light turns red.
3. Source Button

   Continuously press this button to select the input signal sources between SDI1, SDI2, HDMI, and Video.
4. F1 Button

   F1 button can be used as a shortcut button.

   Press the F1 button to select the corresponding function.
5. F2 Button

F2 button can be used as a shortcut button.

Press the F2 button to select the corresponding function.

6. F3 Button

F3 button can be used as a shortcut button.

Press the F3 button to select the corresponding function.

7. F4 Button

F4 button can be used as a shortcut button.

Press the F4 button to select the corresponding function.

8. Rotary Dial

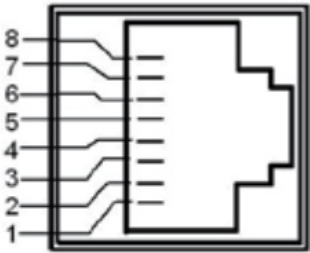When in OSD main menu, rotate and press the dial to select different main menu items.

When in sub-menu, rotate and press the dial to adjust the parameter of the selected item.

9. Tally

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

10. RS422

RS422 input interfaces. RS422 uses 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	Description
	1	GND	GND
	2	GND	GND
	3	RS422_Tx-	RS422_Tx-
	4	RS422_Rx+	RS422_Rx+
	5	RS422_Rx-	RS422_Rx-
	6	RS422_Tx+	RS422_Tx+
	7	RS232_TXD	Used only for CPU program upgrades.
	8	RS232_RXD	If not for upgrading, be sure to leave it unconnected.

11. HDMI IN

For HDMI signal input.

12. HDMI OUT

For HDMI signal output.

When the screen displays an HDMI signal, loop out HDMI signal.

13. SDI 1/VIDEO IN

SDI1 & Video share the same interface.

For SDI1 & Video signal input.

14. SDI 2 IN

For SDI 2 signal input.

15. SDI OUT

    SDI signal output.

    When the screen display is SDI 1 signal, loop out SDI 1 signal.

    When the screen display is SDI 2 signal, loop out SDI 2 signal.

16. USB

    Connect the monitor USB interface with Computer USB interface to upgrade the DSP program. (Please contact the dealer for detailed upgrade operation)
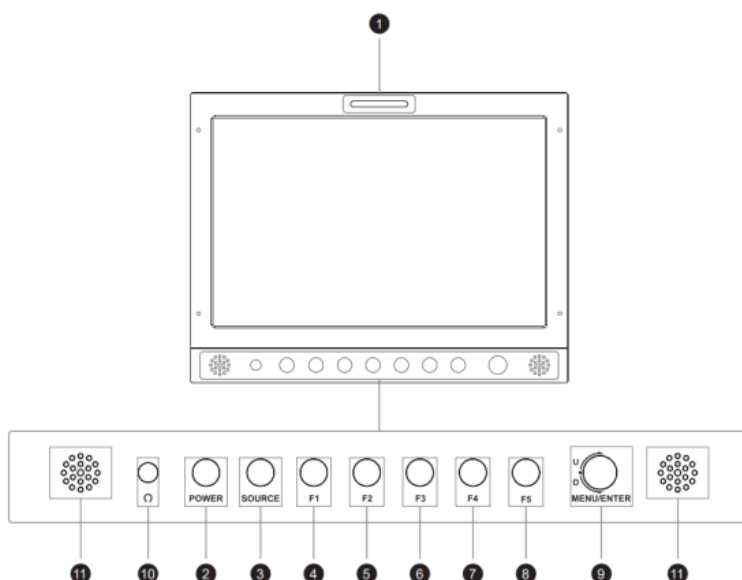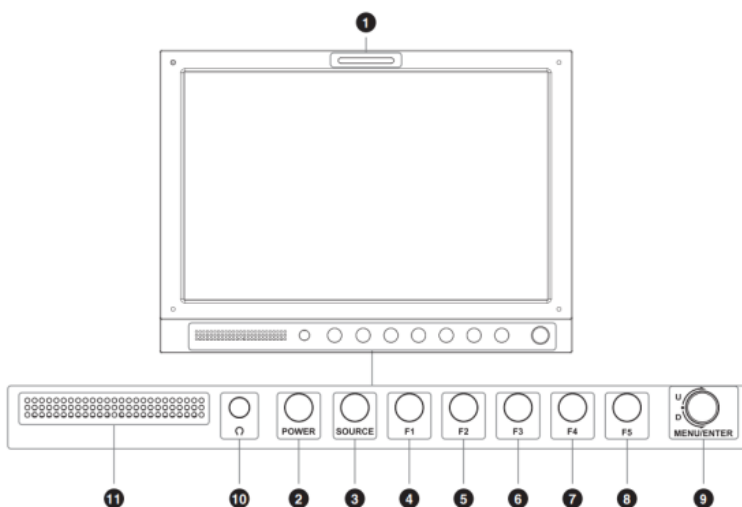
17. AUDIO OUT

    3.5mm earphone output.

18. Speaker

    Stereo audio output.

Front View (KVM-0960W)

Front View (KVM-1060W)

1. Tally

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

2. Power Button and Indicator

When the DC power input or external DV battery is supplied 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 3 seconds to turn off the monitor and the indicator light turns red.

3. Source Button

Continuously press this button to select the input signal sources between SDI1, SDI2, HDMI, and Video.

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F1 button can be used as a shortcut button.

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5. F2 Button

F2 button can be used as a shortcut button.

Press the F2 button to select the corresponding function.

6. F3 Button

F3 button can be used as a shortcut button.

Press the F3 button to select the corresponding function.

7. F4 Button

F4 button can be used as a shortcut button.

Press the F4 button to select the corresponding function.

8. F5 Button

F5 button can be used as a shortcut button.

Press the F5 button to select the corresponding function.

9. Rotary Knob

When in OSD main menu, rotate and press the knob to select different main menu items.

When in sub-menu, rotate and press the knob to adjust the parameter of the selected item.
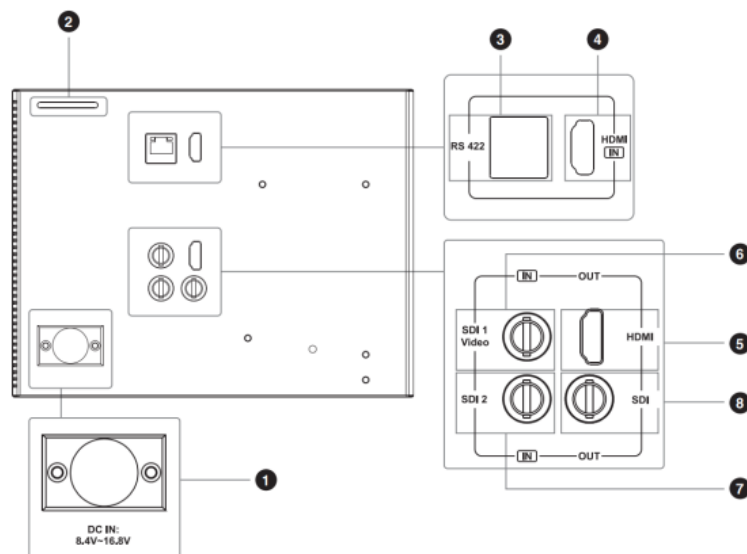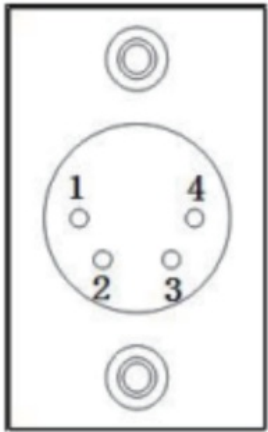
10. AUDIO OUT

3.5mm earphone output.

11. Speaker

Stereo audio output.

Rear View (KVM-0960W/KVM-1060W)

1. DC IN

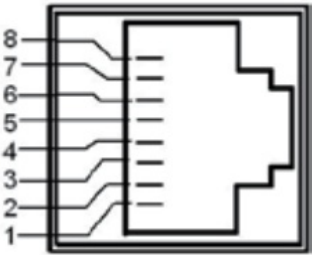DC power input interface, power input range 8.4~16.8V.

Pin 1: GND
Pin 2: NC
Pin 3: NC
Pin 4: 8.4~16.8V

2. Tally

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

3. RS422

RS422 input interfaces. RS422 uses 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	Description
	1	GND	GND
	2	GND	GND
	3	RS422_Tx-	RS422_Tx-
	4	RS422_Rx+	RS422_Rx+
	5	RS422_Rx-	RS422_Rx-
	6	RS422_Tx+	RS422_Tx+
	7	RS232_TXD	Used only for CPU program upgrades.If not for upgrading, be sure to leave it unconnected.
	8	RS232_RXD	

4. HDMI IN

For HDMI signal input.

5. HDMI OUT

For HDMI signal output.

When the screen displays an HDMI signal, loop out HDMI signal.

6. SDI 1/VIDEO IN

SDI1 & Video share the same interface.

For SDI1 & Video signal input.

7. SDI 2 IN

For SDI 2 signal input.

8. SDI OUT

SDI signal output.

When the screen display is SDI 1 signal, loop out SDI 1 signal.

When the screen display is SDI 2 signal, loop out SDI 2 signal.

9. USB

Connect the monitor USB interface with Computer USB interface to upgrade the DSP program. (Please contact the dealer for detailed upgrade operation)

OSD Menu

Menu Operation
Rotary Dial(Knob):

1. Press the Rotary Dial(Knob), the main menu will appear.
2. When in OSD main menu, rotate and press the dial/knob to select different main menu items.
3. When in sub-menu, rotate and press the dial/ knob to adjust the parameter of the selected item.

Menu Item Description
Status & Exit:

Sub Menu	Description
SDI1	Display current window input signal and resolution.
Color Temp	The current color temperature.
Gamma Mode	The current gamma value.
Color Space	The current color space.
Main Source LUT	Display the LUT setting.
Source Out Mode	Display the signal loop out setting.
Charging Mode	Display the charging mode . Note: Only workable for 7.4V battery charging.
MCU Firmware Version	Display the MCU firmware version.
DSP Firmware Version	Display the DSP firmware version.

Source:

Menu item	Description & Setting
Exit	Rotate the knob to this item and press to go back to the main menu.
Main Source	Select the main source when in PIP or PBP mode. · SDI 1 · SDI 2 · HDMI · Video
Source Out Mode	Reserve function. · Independent Loop · Follow the main input
Layout	[Single] Display only a single signal picture on screen. [PIP] Display two signal pictures simultaneously on screen. [PBP]Display two signals pictures side-by-side simultaneously on screen. · Single · PIP · PBP
Second Source	Select the second source when in PIP or PBP mode. · SDI 1 · SDI 2 · HDMI · VIDEO Note: Only in PIP or PBP mode.
PIP Position	Select different layout in PIP mode. · Left Top · Right Top · Right Bottom · Left Bottom · Center Note: Only in PBP mode.

Function Key:

Menu item	Description & Setting
Menu item	Rotate the knob to this item and press to go back to the main menu.
Exit	The Function keys can be set to the following functions: Waveform Mode, Focus Assist, False Color, Zebra, H Flip,Fast Mode, Blue Mode, Mono, Marker Enable, Image Size, HDR Quick Sel, Freeze frame, Darkness check, Undefined, Time Code Display, Audio Level Meter.
F1	· Undefined
F2	· Time Code Display · Audio Level Meter Waveform Mode
F3	· Focus Assist · False Color
F4	· Zebra · H Flip
F5	· Fast Mode · Blue Mode · Mono · Marker Enable · Image Size · Scan Mode · HDR Quick Sel · Freeze frame · Darkness check · Part Zoom · H/V Delay Note: Darkness check: When the function key is set to darkness check, press the function key to increase the brightness of the low- brightness part of the screen.The KVM-0861W doesn't have a F5 Key.

Scope:

Menu item	Description & Setting
Exit	Rotate the knob to this item and press to go back to the main menu.
Waveform Alarm	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. · 84%-100%
Waveform Scale	[Digital]Display in digital. [IRE]Display in percentage of luminance. · Digital · IRE
Vector Scale	Display Vector Scale.(Functions shift between FN keys among model 9" & 10") · 75% · 100%
Zebra Level	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. · 80%-100%
Focus Gain	Focus gain adjustment 0-31. · 0-31
Focus Color	[RED]Focus color use Red.[Green] Focus color use Green.[Blue]Focus color use Blue.[White]Focus color use White. · RED · Green · Blue · White
Time Code Mode	[LTC]Time code display as LTC mode.[VITC 1]Time code display as VITC1.[VITC 2]Time code display as VITC2. · LTC · VITC 1 · VITC 2

Image:

Menu item	Description & Setting
Exit	Rotate the knob to this item and press to go back to the main menu.
Backlight	Backlight Adjustment. · 0-100
Video Range	[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. · Limit (64-940) · Extend (64-1023) · Full(0-1023)
Contrast	Contrast Adjustment. · 0-100
Fast Mode	Interlace scan without converting into progressive scan. · ON · OFF
Colour Temp	Three modes of the fixed color temperatures selection (5600K, 6500K, 9300K) and a custom selection. · 5600K · 6500K · 9300K

EOTF	Users can choose different Gamma, HLG, Slog or turn it off (this function only available to KVM-6X series)) · OFF · SLog · SLog2 · SLog3 · CLog · CLog2 · CLog3 · DLog · VLog · LogC · 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 · Gamma 2.0 · Gamma 2.2 · Gamma 2.4 · Gamma 2.6
Color Space	[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 Choose Rec2020. [USER 1]Color Space Choose User1. [USER 2]Color Space Choose User2. · Bypass · Rec 709 · EBU · DCI P3 D65 · DCI P3 · Rec2020 · USER 1 · USER 2 Note: 1. KVM-5X series only support Rec709 and Bypass. 2. User1 and user2 option, support user loads their own LUT table, store in the re, specific instructions please contact with the dealer.
Start Color Correction	In the menu of Color calibration, press right key to start color calibration, must connect with color analyzer to start color calibration. · <Right> to start color correction Note:restart the monitor to back from color calibration function when misled to the function.

Audio:

Menu item	Description & Setting
Exit	Rotate the knob to this item and press to go back to the main menu.
Speaker Volume	Speaker volume adjustment. · 0-100 Note:Only for SDI/HDMI input.
Headphone Volume	Headphone volume adjustment. · 0-100 Note:Only for SDI/HDMI input.
Audio Out Mode	[Normal]Left and right channel out normal.[Right Channel Mute] Right channel mute, just out the right channel.[Left Channel Mute] Left channel mute, just out the left channel. · Normal · Right Channel Mute · Left Channel MuteNote:Only for SDI/HDMI input.
Audio Out Channel	When in SDI Signal: SDI embedded audio select in CH1&CH2\CH3&CH4\CH5&CH6\CH7&CH8. When in HDMI Signal: HDMI embedded audio selects in CH1&CH2. · CH1&CH2 · CH3&CH4 · CH5&CH6 · CH7&CH8 · CH9&CH10 · CH11&CH12 · CH13&CH14 · CH15&CH16 Note:Only for SDI/HDMI input.
Audio Level Meter	Turn on/off audio level meter display. · ON · OFF Note:Only for SDI/HDMI input.

Audio Display Channels	When in SDI Signal: 1-2 channels: 1-2 channels are displayed horizontally or vertically on the left side of the screen. 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 right side of the screen. When in HDMI Signal: Only displayed 1-2 channel horizontally or vertically on the left side of the screen. · 1-2 Channels · 1-4 Channels · 1-8 Channels · 1-16 Channels · 9-16 Channels Note:Only for SDI/HDMI input.
Audio Phase Channel	Audio Phase Channel Display audio phase between different channels. · CH1&CH2 · CH3&CH4 · CH5&CH6 · CH7&CH8 · CH9&CH10 · CH11&CH12 · CH13&CH14 · CH15&CH16

Marker:

Menu item	Description & Setting
Exit	Rotate the knob to this item and press to go back to the main menu.
Marker Enable	[ON]All markers on. [OFF]All markers off. · ON · OFF
Market Select	[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. · OFF · 4:3 · 16:9 · 15:9 · 14:9 · 13:9 · 1.85:1 · 2.35:1
Target Market	[OFF]Turn off marker. [Center]Turn on center marker. [User]Turn on user target marker. · OFF · Center · User
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. · OFF · 80% · 85% · 88% · 90% · 93%
Marker Level	Set the color of the market line. · Gray · Dark · White
Marker Mat	[Translucency]Turn off Fill up the background beyond marker. [Half]Background beyond marker is gray. [Black]Background beyond marker is black. [OFF]Background beyond marker is half transparent. · Translucency · Half · Black · OFF

UMD:

Menu item	Description & Setting
Exit	Rotate the knob to this item and press to go back to the main menu.
UMD Display	[OFF]Turn off UMD display. [Local]Set the OSD customized UMD character display in "UMD Main Window Char"and "UMD Second Window Char". [D-8C]UMD use D-8C mode. [S-8C]UMD use S-8C mode. [S-16C]UMD use S-16C mode. · OFF · Local · D-8C · S-8C · S-16C
UMD ID	UMD ID can be set any value from 000-126. It can be used for multi device cascading, and to 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. · 000-126
UMD Position	[Bottom Center]UMD display at Bottom Center. [Top Center]UMD display at Top Center. · Bottom Center · Top Center
UMD Local Color	[White]UMD character display in white. [RED]UMD character display in red. [GREEN]UMD character display in green. [Yellow]UMD character display in yellow. · White · RED · GREEN · Yellow

UMD Main Window Char	It can be set any character in "xxxxxxxx". 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 the same as the 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 pressing MENU, otherwise, it will not save. · xxxxxxxx Note:Only for local UMD display.
UMD Second Window Char	Setting is same as UMD Main Window Char. · xxxxxxxx
UMD PROTOCOL	[TSL3.1]Select TSL3.1. [TSL4.0]Select TSL4.0. · TSL3.1 · TSL4.0
LED Tally Source	[GPI]Select GPI protocol control. [TSL]Select TSL protocol control. · GPI · TSL
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. · OFF · RG · GR · RGY

System:

Menu item	Description & Setting
Exit	Rotate the knob to this item and press to go back to the main menu.
OSD Transparency	Menu background from opaque to completely transparent selection. · 0-100
OSD Time out	Menu disappear time when no button operation. · 1-30
OSD H Position	Menu horizontal position adjust. · 0-100
OSD V Position	Menu vertical position adjust. · 0-100
Screen Saver	The system will enter screen saver mode when the main input is without signal. This feature is invalid in PIP/ PBP status. · ON · OFF
Factory Reset	Turn right the VOLUME knob, the system restore to factory setting. · <Right> to Factory Reset

Key Lock:

Menu item	Description & Setting
Exit	Rotate the knob to this item and press to go back to the main menu.
Key Lock	[OFF]Key Lock Off. [ON]When the key lock is turn on, only MENU, dial/knob can be operated, the rest cannot. · OFF · ON

Function Key

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

Function Key Menu Operation Instructions:
The Function key function can be set in the main menu. Press the function key to call up the function key menu and press the function key again to turn on / off the function. In the function key menu, use the dial/knob, you can also select the function key up / down. If the function key function contains a variety of modes, use the dial/knob, you can also quickly select the included other functions. For example, the F1 function key function on the figure is the image size, and the image size includes the following functions: original ratio, full screen, 1: 1, 16: 9, 4: 3 modes, use dial/knob, you can quickly select the original ratio, full screen, 1: 1, 16: 9, 4: 3 in the Function key menu.

Factory Reset
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 incorrectly by the user.

2. The monitor picture or sound is abnormal, and not due to hardware problems.

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

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

   The monitor resets to factory preset.

WARRANTY CARD
No

User				
Tel				
Address			Postal Code	
Model. No		Serial Number		
Warranty Date		Purchase Date		

Item	Contents of Reparation	Replacement parts name	Replacement parts quantity	Remark
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Repairer Signature	Service hotline	User Signature

konvision
www.konvision.com

Documents / Resources

	konvision Field Series KVM On Camera Monitor [pdf] User Manual
	V1.3.0, Field Series KVM On Camera Monitor, Field Series, KVM On Camera Monitor, Camera Monitor, Monitor

References

- **K konvision.com**
- **User Manual**