Konvision

KVM-7050W, KVM-9050W, KVM-7050W-2, KVM-9050W-2 LCD Monitors

USER MANUAL

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Notes

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

- . Please read carefully the product safety and operating instructions 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 this product to rain, humid, dusty places.
- 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.
- If there is no image or sound, please unplug the power cord from the AC outlet immediately. Please consult professionals if there still have problems after examining carefully.
- 9. Do not place this product at unstable places such as cars, shelves or tables, as it is easy to make the product falling down, may cause severely hurt to children and adults and also damage to the product.
- 10. Please do not touch the power plug with wet hands, as it will cause electric shock.
- 11. Please do not expose the LCD panel in direct sunlight for a long time, it will result in damage or aging of the LCD panel.

- 12. Please display this product at a suitable temperature and humidity place.
- 13. Please do not spray any liquid things and/or add any objects into the monitor, it might cause voltage instability and short-circuit, also can easily cause fires and blackouts.
- 14. If do not use the device for a long time, please unplug the power cord from the AC outlet.
- 15. Please keep not less than 5cm space around the vents while using the monitor, in order to obtain good heat dissipation effect.

Security

Screen maintenance:

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

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

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

Cabinet maintenance:

Please follow the guidelines below to prevent potential damage.

- Do not wipe the cabinet with solvents such as alcohol, thinner or gasoline.
- Do not use any pesticides and/or other volatile substances.
- Do not allow prolonged contact with rubber or plastic.
- Do not wipe the cabinet hard. Use a soft, lint free cloth to clean. If the cabinet cleaning is

more difficult, use lint free cloth that has been very lightly dampened with detergent and then dry it to wipe.

Installation:

- Keep adequate air circulation to prevent device internal overheating. Please do not place the product on the surface of some certain objects (such as blankets, carpets, etc.), as these objects may block the vents.
- Please keep the device away from heat generating sources, such as radiator, heaters and air duct, also keep it away from much dust or mechanical vibration place.

Rack mount Installation:

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

Transportation:

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

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

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

The following does not belong to failures:

- 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.
- 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.
- 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 resolution LCD panel

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

Support full screen for Canon 5D II

- Full screen switch for Canon 5D II, and 1:1 mapping

Support user replaceable battery plates

Support V-mount, Anton Bauer, and different brands 7.2V DV battery plates.

Durable and lightweight design

- Full metal and lightweight design provides cameraman easily and safely to field shooting, and save space for OB vans/studio rooms equipment.

Two Colors Tally Indicator

 Two colors Tally indicator as red and green, to monitor each input signal and check ON-AIR mode.

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

This unit detects the color system automatically.



3D video decoder

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

Motion-Adaptive Interlace to Progressive

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

10BIT Signal Processing

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

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

3G/HD/SD-SDI video signal can be input through this connector.

YPbPr Input

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

HDMI Input

HDMI signal can be input through this 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.

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, YCbCr waveform and full screen luminance 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.

Zebra

 Use zebra stripes to mark the parts which luminance is over the reference scope specified by user (default 95%), aid the cameraman to control the illumination, to avoid overexposure.

Vector scope

Vector UV analysis for color bar signal input

Pixel Measure

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

PIP/PBP

SDI input signal can be 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 blanking area of SDI1 input signal.

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.

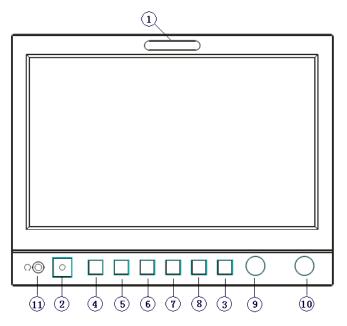
Remote Control Function

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

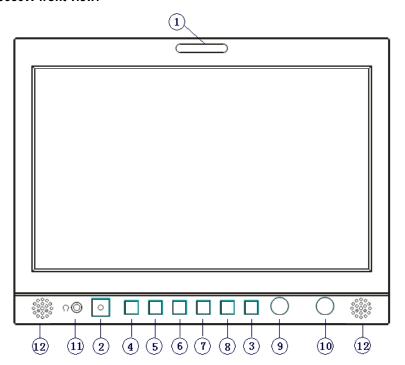
• Parts and Their Functions

A: Front View

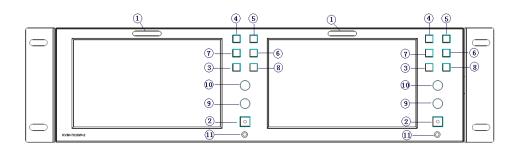
KVM-7050W front view:



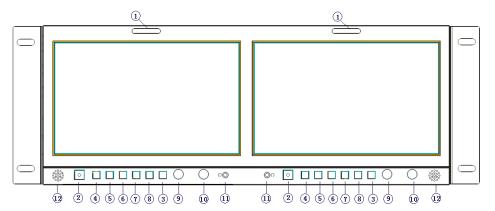
KVM-9050W front view:



KVM-7050W-2 front view:



KVM-9050W-2 front view:



(1)Tally Indicator

This tally indicator is controlled by RS232 port, with two colors, red and green.

(2) Power Button and Indicator

When the external DC 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 again to turn off the monitor.

(3)MENU Button

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

Clear the markers.

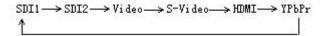
Clear display mode.

Turn off the shortcut menu.

(4)SOURCE Button

Press this button to select the input signal sources.

Selection list as below:





(5)MARKER Button

When the screen showing single picture, press this button for shortcut function: safety area.

(6)WFM/VCTR Button

Only for SDI signal input, continuously press this button for shortcut functions: Y waveform, CbCr waveform, Vector, Histogram, RGB Histogram, full screen waveform. (There is no histogram and RGB histogram when under 480I, 576I signal status)

(7) EXPOSE Button

Only for SDI signal input, continuously press this button for shortcut functions: false color, zebra.

(8) FOCUS

Continuously press this button for shortcut functions: Focus assist and Part Zoom In. When it is SDI signal input, press FOCUS, active focus assist function, meanwhile, the sharpest edge of image will mark in red. If press it again, it will appear a green box under this status, rotate the VOLUME knob and/or IMAGEADJ knob can adjust the position of the green box, after you select the position you want to zoom in, press VOLUME knob or IMAGEADJ knob, it will zoom in and display full screen. If under Part Zoom In status, press VOLUME knob or IMAGEADJ knob, it will return to green box status. If under focus assist and Part Zoom In status, press FOCUS, it will cancel the focus assist function, and remain part Zoom In function, press FOCUS again, it will exit Part Zoom In function. When it is HDMI, YPbPr, Video signal input, Press FOCUS, it will appear a green box directly, rotate the VOLUME knob and/or IMAGEADJ knob can adjust the position of the green box, after you select the position you want to zoom in, press VOLUME knob or IMAGEADJ knob, it will zoom in and display full screen. Press the VOLUME knob or IMAGEADJ knob again, it will return to green box status. If under green box status, press FOCUS, the green box will disappear. If under Part Zoom In function, press FOCUS, it will exit this function. (There is no focus assist function if signal input is HDMI, YPbPr, and Video)

(9)VOLUME Knob

This knob is encoder with key switch functions.



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Turn this knob for Left and Right operation.

Press this knob for two shortcut functions: speaker volume and Headphone volume.

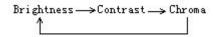
Volume: turn the knob to adjust speaker volume.

HD Volume: turn the knob to adjust headphone volume.

(10)IMAGE ADJ Knob

In OSD menu, turn this knob for Up and Down operation.

Press this knob for shortcut functions: Brightness, Contrast and Chroma.



Turn the knob adjust the value of Brightness, Contrast and Chroma respectively.

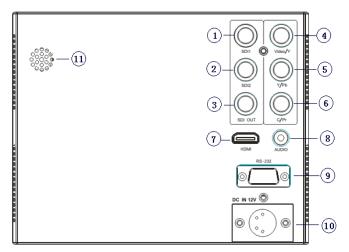
(11) Headphone

Headphone 3.5mm output.

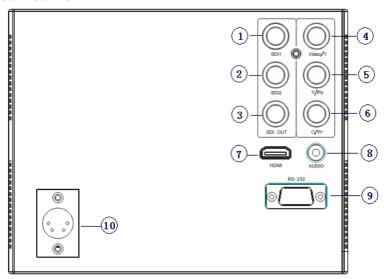
(12)Speaker: Built-in Stereo speaker.

B: Rear View

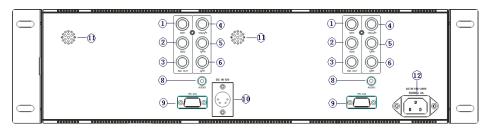
KVM-7050W rear view:



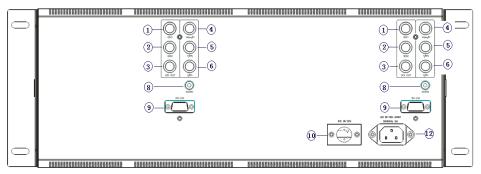
KVM-9050W rear view:



KVM-7050W-2 rear view:



KVM-9050W-2 rear view:



- (1) SDI1 input: 3G/HD/SD-SDI auto detect.
- (2) SDI2 input: 3G/HD/SD-SDI auto detect.
- (3) SDI Loop through: SDI Re-clock loop through, without enervation.
- (4) Video/YPbPr-Y input: Composite video in and Y input of YPbPr component signal.
- (5) YC-Y/Pb input: Y input of YC signal and Pb input of YPbPr signal.
- (6) YC-C/Pr input: C input of YC signal and Pr signal of YPbPr signal.
- (7) HDMI input.
- (8) AUDIO in: Analogue audio in.
- (9) RS-232: For remote control/GPI, Tally indicator control and Marker On/off, etc.

For software upgrade.

- (10) DC 12V IN: wide range DC input voltage 7-20V.
- (11) Speaker: Stereo audio output
- (12) AC-IN 100-240V Power supply

OSD Menu

1 Menu structure:

Picture

Picture Mode

Brightness

Contrast

Sharpness

Colour

Hue

Colour Temp

Img. Adj

Image Size

Scan Mode

DVI YUV Color Space (only for HDMI signal)

CTI (Color Transient Improvement)

Ntsc 7.5IRE (only for video signal)

Gray Mode

Blue Mode

Fast Mode

H/V Delay (only for SDI1 signal)

Setup

OSD Settings

Transparency

OSD Timeout

Marker Setting

Marker Enable

Marker Select

Center Marker

Safety Area

Marker Level

Marker Mat

Part Zoom in

Format Display

Power Saving

Screen Saver

Factory Reset

Audio

Volume

Headphone Volume

Audio Level Meter (only for SDI signal)

Audio Out Channel (only for SDI signal)

Audio Display Mode (only for SDI signal)

PIP/PBP

Layout

Main Window Source

Second Window Source (for PIP/PBP)

PIP Size (only for PIP)

PIP Position (only PIP)

Alpha Blend (only for PIP)

Swap (for PIP, PBP)

UMD Display

UMD ID

UMD Main Window Char

UMD Second Window Char (for PIP, PBP)

Scope (only for SDI signal)

Waveform Mode

Waveform Alarm

Waveform Scale

Histogram Mode

Vector

Vector Scale

Zebra

Zebra Level

Pixel Measure

False Color

Focus Assist

H Flip

Status

Source & Format

Fh

Fν

Color Temp

Image Size

Scan Mode

CTI

Screen Saver

Power Saving

2 Menu Operation

- Press the POWER button to switch on the monitor; Press the Menu button, the main menu will be displayed on the screen, and press the MENU button again to exit the menu.
- 2. In the main menu, turn the VOLUME knob to select different items: Picture, Img.Adj, Setup, PIP/PBP, (Scope) and Status.
- 3. Turn the IMAGEADJ knob, to enter or exit sub-menu. If sub-menu items are marked by the drop-down sub-menu group with icon ; turn it to open or close the drop-down sub-menu group.
- 4. In sub-menu, turn the VOLUME knob to select the sub-menu item operation.



5. When the menu window is not enough to show all the sub menu items, it will show up/down arrow $\triangle \nabla$ for the rest items.

3 Menu Item Description

A. Picture

Menu item	Setting	Description	
Picture mode	DYNAMIC	The parameters of brightness,	
	STANDARD	contrast, sharpness, color, hue in	
	SOFT	three modes: dynamic, standard,	
	Custom	soft.	
		Custom is for user definition	
Brightness	0-100	Brightness Adjustment	
Contrast	0-100	Contrast Adjustment	
Sharpness	0-15	Sharpness Adjustment	
Colour	0-100	Saturation Adjustment	
Hue	0-100	Color Adjustment	
Colour Temp	3200K	Four modes of the fixed color	
	5600K	temperatures selection (3200K,	
	6500K	5600K, 6500K, 9300K) and a	
	9300K	custom selection.	
	Custom:	"Custom" is for user definition, to	
	Red Gain 0-255	adjust the gain value and offset	
	Green Gain 0-255	value of Red, Green and Blue. It	
	Blue Gain 0-255	will save the color temperature	
	Red offset 0-255	setting automatically.	
	Green offset 0-255		
	Blue offset 0-255		

B. Img. Adj

Menu Item	Setting	Description	
Image Size	FILL ASPECT	Original ratio of the signal source	
	Full Screen	Full screen image	
		At 1:1 pixel-to-pixel display. It is	
	1:1	invalid in PIP, sub-screen and	
		PBP mode	
	16:9	16:9 aspect ratio	
	4:3	4:3 aspect ratio	
	DSLR	Full screen for Canon 5D II via	
		HDMI input	
Scan Mode	100% Scan	100% Image display	
	Over Scan 5%	95% Image display	
	Under Scan 5%	105% image display	
DVI/ YUV	ON	DVI input signal color space	
Color Space		change to YUV.	
	OFF	DVI input signal color space is	
		RGB	
		(For HDMI signal only)	
СТІ	ON	Color Transient Improvement, for	
	OFF	better color transition	
		CTI off	
Ntsc 7.5IRE	ON	(For video signal only)	
	OFF		
Gray mode	ON	Monochrome mode with black	
	OFF	and white image	
Blue Mode	ON	Display in Blue only	
	OFF		

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Fast Mode	ON	Interlaced scan without	
	OFF	converting into progressive scan	
H/V Delay	ON	Display horizontal and vertical	
	OFF	blanking area of SDI1 input	
		signal	

C. Setup

Menu Item		Setting	Description	
OSD Setting	ıs:		Menu background from opaque	
Transparence	су	0-100	to completely transparent	
			selection	
OSD Timeou	ut	1-30	Menu disappear time when no	
			button operation	
Marker	Marker	ON	All markers on	
setting	Enable	OFF	All markers off	
	Marker	OFF	NO marker display	
	Select	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	
	Center	ON	Display center mark	
	Marker	OFF	No display center mark	
	Safety	OFF	No Safety Area display	
	Area	80%	80% Safety Area display	
		85%	85% Safety Area display	

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		88%	88% Safety Area display		
		90%	90%Safety Area display		
		93%	93% Safety Area display		
	Marker	OFF	No marker line		
	Level	Translucency	Marker line is grey		
		Half	Marker line is white		
		High	Marker line is black		
		Middle	Marker line is grey		
		Low	Maker line is white		
	Marker	OFF	Turn off Fill up the background		
	Mat		beyond marker		
		Half	Background beyond marker filled		
			up with grey,		
		Black	Fill up with black		
		Transparency	Background beyond marker		
			transparent		
Part Zoom ir	า	<right>Enter, <pip>Part</pip></right>	Zoom in any part of the picture, to		
		Zoom in	watch picture details more		
			clearly, and assist for focus.		
Format Disp	Jav	OFF	Town off the alienter in factor in		
Format Display		OTT	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.		
Power Savir	Power Saving ON I		Enter power-saving mode, the		
		OFF	system will switch off some		

functions when the main input is

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		without signal more than 10	
		minutes. This feature is invalid in PIP/PBP status.	
Screen Saver	ON	The system will enter screen	
	OFF	saver mode when 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	

D. Audio

Menu item	Setting	Description		
Volume	0-100	Speaker volume adjustment		
Headphone Volume	0-100	Headphone volume		
		adjustment		
Audio Level Meter	ON	Turn on/off audio level meter		
(only for SDI signal)	OFF	display		
Audio Out Channel	CH1&CH2	SDI embedded audio CH1 &CH2		
(only for SDI signal)	CH3&CH4	SDI embedded audio CH3 &CH4		
	CH5&CH6	SDI embedded audio CH5 & CH6		
	CH7&CH8	SDI embedded audio CH7 & CH8		
Audio Display Mode	Horizontal	Audio level meter display		
(only for SDI signal)	Vertical	horizontal/vertical		

E. PIP/PBP

Menu item	Setting	Description	
Layout	Single Display only one signal picture		
		screen	

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	PIP Display two signals pictures		
		simultaneously on screen, the	
		sub picture overlay on 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	
		signal is SDI, the other signal is	
		any other input signals (except	
		SDI). The two pictures should be	
		different signal formats.	
Main Window Source	Video	Main Window select signal input	
	S-Video	among Video/ S-Video/ YPbPr/	
	YPbPr	SDI1/SDI2/ HDMI	
	SDI1	(Note: YPbPr is compatible with	
	SDI2	RGB, YCbCr, YPbPr)	
	HDMI		
	VGA		
Second Window	Video	Second Window select signal	
Source (this item	S-Video	input among Video/ S-Video/	
shows in PIP/PBP)	YPbPr	YPbPr/ SDI1/SDI2/ HDMI	
	SDI1	(Note: YPrPr is compatible with	
	SDI2	RGB, YCbCr, YPbPr)	
	HDMI		
	VGA		
PIP Size (this item	Large	The second window is Large size	
shows in PIP mode)	Middle	The second window is medium	
		size	

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Small Small The second window is small size		
	The second window in the left-top	
Lett 10p	corner of screen.	
Dight Ton		
Right top	The second window in the	
	right-top corner.	
Center	The second window in the center.	
	The second window in the	
Right Bottom	right-bottom corner.	
	The second window in the	
Left Bottom	left-bottom corner.	
	The second window is adjustable	
Custom	by user	
	When the user select this option,	
	it will automatically pop up at the	
	following "H position" and "V	
	position" menu items	
0-100	Horizontal position adjustment of	
	picture-in-picture's second	
	window.	
0-100	Vertical position adjustment of	
	picture-in-picture's second	
	window.	
0-100	Adjustment of PIP's second	
	window and the main window	
	alpha blend degree. When the	
	value is 0, the second window is	
	translucent blend with the main	
	window; when the value is 100,	
	Small Left Top Right Top Center Right Bottom Left Bottom Custom 0-100	

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		the second window blend directly		
		to the main screen.		
Swap	<right> to swap two</right>	In PIP and PBP, turn right the		
(this item shows in	windows	VOLUME knob to swap the		
PIP/PBP mode)		signal pictures between two		
		windows (main window and		
		second window).		
UMD Display	ON	Turn on/off the UMD display		
	OFF			
UMD ID	000-127	UMD ID can be set any value		
		from 000-127. 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.		
UMD Main Window	xxxxxxxx	It can be set at any character		
Char		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 turning the		
		VOLUME knob (Left/Right),		
		press the VOLUME knob after		
		finishing first character, it will turn		

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		to the second character, select			
		the character you need same as			
		first character, it's also applied to			
		other characters. After finishing			
		selecting the 8 th 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.			
UMD Second	xxxxxxxx	Setting is same as UMD Main			
Window Char(this		Window Char.			
item shows in					
PIP/PBP mode)					

F. Scope (only for SDI signal)

Waveform Mode	OFF LUMA CbCr Full LUMA	Turn off the waveform mode Display Y(luminance) waveform Display CbCr waveform Display Y(luminance) waveform in full horizontal
Waveform Alarm	84%-100%	Waveform alarm can be set at any percentage between 84%-100%, it'll alarm when measured waveform reach or exceed the value you set and mark them with red
Waveform Scale	Digital	Display in digital

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	IRE	Display in percentage of
		luminance
Histogram Mode	OFF	Turn off the histogram mode
	LUMA	Display luminance histogram
	RGB	Display R G B histogram
Vector	ON	Turn on/off vector
	OFF	
Vector Scale	100%	Vector 100% display
	75%	Vector zoom out to 75% display
Zebra	ON	Turn on/off zebra
	OFF	
Zebra Level	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
Pixel Measure	ON	Turn on/off pixel measure
	OFF	
False Color	ON	Turn on/off false color
	OFF	
Focus Assist	ON	Turn on/off focus assist
	OFF	
H Flip	ON	Turn on/off H flip
	OFF	
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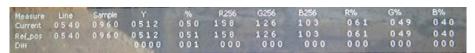
G. Status

Menu item	Description
Source & Format	The current window's input signal source and resolution
Fh	H frequency of the current window's input signal
Fv	V frequency of the current window's input signal
Color Temp	Current Color Temperature
Image Size	Current selected image size
Scan Mode	Current scan mode
СТІ	Color Transient Improvement mode status
Screen Saver	System screen saver mode status
Power Saving	System power saving mode status

Pixel Measure operating instructions:

Press MENU button, enter into menu items, rotate VOLUME knob to Scope item, and then rotate IMAGEADJ knob to select Pixel Measure, active the pixel measure function, rotating VOLUME knob (left/right) and/or IMAGEADJ knob(up/down) can move the large cross, to measure any pixel position and RGB value.

This function can be used for comparison of any two pixels: enter into Pixel Measure function. Rotating VOLUME knob (left/right) and/or IMAGEADJ knob (up/down) can move the large cross to the first pixel, press VOLUME knob or IMAGEADJ knob to mark first pixel with a small cross, and then rotate VOLUME knob (left/right) and/or IMAGEADJ knob (up/down), it will appear a large cross, move it to the second pixel you want to compare, it will display difference between the current pixel and the former marked pixel.



Measure: measurement Current: current pixel

Ref-pos: former marked pixel

Diff: difference between the current pixel and former marked pixel



Line: pixel vertical position

Sample: pixel horizontal position

Y: luminance as an absolute value (0-1023)

%: luminance level expressed as percentage (Y value/256) *100%

R%: red level expressed as percentage (red value/256) *100%

G%: green level expressed as percentage (green value/256) *100%

B%: green level expressed as percentage (blue value/256) *100%

R256: red level as an absolute value (0-255) G256: green level as an absolute value (0-255) B256: blue level as an absolute value (0-255)

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 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

1. Hardware connection

Connect the monitor's RS-232 serial port to the computer to remote control the monitor by universal serial communication software.



2. Software Configuration

Start communication software, configure the serial communication parameters, sending communications test command, if the return value is correct, you can send control command.

Serial port settings:

. Baud Rate: 19200

Parity: None
Data bits: 8
Stop bit: 1

. Flow Control: None

Communications test:

Communications test	Return value	Description				
command						
BE EF 01 05 00 D1 FA 01	1E BE EF 01 04 00 37 3D 01 02	Return value is correct, the				
02 00 00 00	00 01	communication setup is normal				

Two methods of controlling tally indicator.

(1) Connect the monitor's RS-232 serial port to the computer to remote control tally indicator by sending commands via universal serial communication software.

(2) When Pin9 connects to GND directly

A. tally indicator will turn green while input voltage of Pin7 is between 3.3V-5V,

B. tally indicator will turn red while input voltage of Pin 8 is between 3.3V-5V.

Note: Max input voltage of Pin7 / Pin8 is 5V, otherwise it will cause damage.

Warranty Card

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

Maintenance Record

Date	Contents of	Repla	cement parts	Donairor	User
Date	Reparation	Name	Qty	Repairer	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 All contents on this data have been carefully checked, if there is any printing errors & omissions or any misunderstanding, our Company reserves the right of interpretation.