CCTV
LED MONITOR

USER MANUAL

MON18L • MON21L • MON23L

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MON18L, MON21L, MON23L Manual.indd 1 23/02/2017 10:29:31

Safety Instructions

1. Read all of these instructions.
2. Save these instructions for later use.
3. Follow all warnings and instructions in this manual and on the product.
4. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
5. Do not use this product near water.
6. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product or nearby people.
7. Please comply with the following conditions:

   A. Allow a minimum distance of 10cm around the apparatus for sufficient ventilation.

   B. The ventilation openings should not be impeded by items such as paper, table-cloths, curtains, etc..

   C. No naked flame sources, such as lighted candles, should be placed on the apparatus.

   D. Please dispose of all batteries according to local regulations.

   E. Use the monitor in moderate climates.
8. This product should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
9. This product is equipped with a 3 wire grounding type plug having a third (grounding) pin. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to update the outlet. Do not defeat the purpose of the grounding-type plug.
10. Do not allow anything to rest on the power cord or place this product where people will walk on the cord.
11. If an extension cord is used with this product, make sure that the total ampere ratings on the products plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the all of the products plugged into the wall outlet do not exceed the rating of the outlet.
12. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts, which could result in the risk of fire or an electric shock. Never spill any kind of liquid on the product.
13. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to trained personnel.
14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

    A. When the power cord or plug is damaged or frayed.

    B. If liquid has been spilled into the product.

    C. If the product has been exposed to rain or water.

    D. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore normal operation.

E. If the product has been dropped or the cabinet has been damaged.

F. If the product exhibits a distinct change in performance, indicating a need for service.

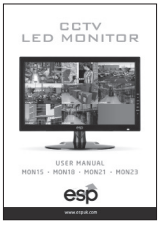
MON18L, MON21L, MON23L Manual.indd 2 23/02/2017 10:29:31

Contents

Safety Instructions 2
MON18L Connectors, Controls and Indicators 4
MON21L and MON23L Connectors, Controls and Indicators 5
Picture Menu Functions and Settings 6
Audio Menu Functions and Settings 7
OSD Menu Functions and Settings 8
Functions Menu and Settings 9
Mounting Guide 10
Power Management 10
Technical Specifications 11
Caution 12

Contents of Package

CCTV LED Monitor



User Manual

Power Cord

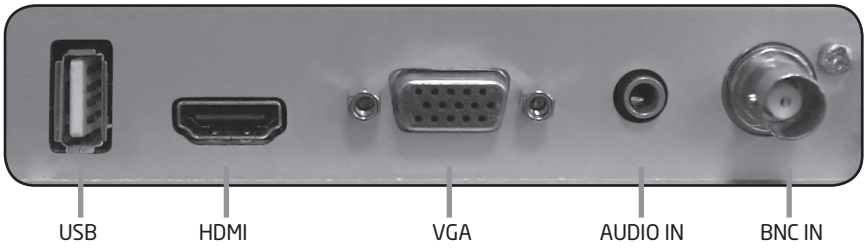
VGA Cable

HDMI Cable

Audio Cable

MON18L, MON21L, MON23L Manual.indd 3 23/02/2017 10:29:31

MON18L Connectors



MON18L Controls and indicators

SOURCE/EXIT Button
- Press the button to show source menu
- Select HDMI, VGA and VIDEO input signal

UP Button
- Press the button to scroll the cursor to desired function

DOWN Button
- Press the button to scroll the cursor to desired function

Volume + button
- Press the button to increase volume
- Press the button to increase the value of selected function in sub OSD menu.

Volume - button
- Press the button to decrease volume
- Press the button to decrease the value of selected function in sub OSD menu.

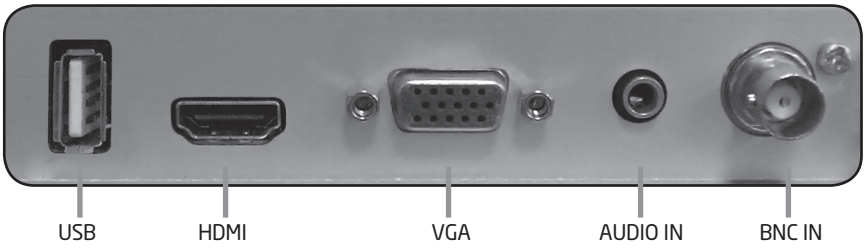
MENU Button
- Press the button to show the OSD main menu
- As a confirmation key during the OSD operation

POWER Button
- Press the button to turn ON or turn OFF the monitor

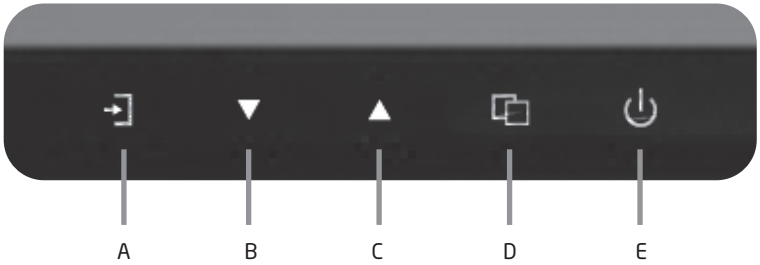
POWERLED Indication
- Green - Power on
- LED light off - Power off

MON18L, MON21L, MON23L Manual.indd 4 23/02/2017 10:29:32

MON21L and MON23L Connectors



MON21L and MON23L Controls and indicators



A. "Source" button

- Press the button to display all the signal channel menus.

B . "Rightward" button

- Press the button to move the cursor to the needed function.
- Press the button to choose function OSD menu.

C. "Leftward" button

- Press the button to move the cursor to the needed function.
- Press the button to choose function OSD menu.

D. "Menu" button

- Press the button to display the OSD main menu.
- Press the button to Exit the OSD menu.

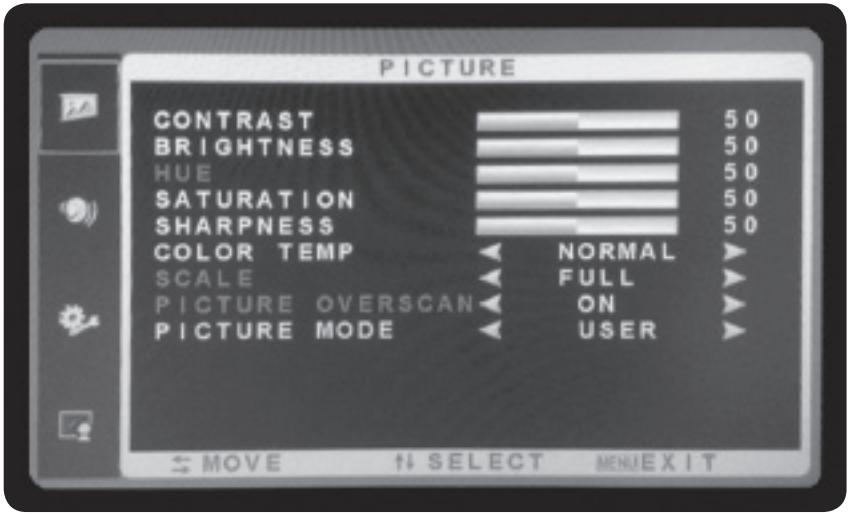
E. "Power" button

- Press the button to turn on or turn off the displayer.

MON18L, MON21L, MON23L Manual.indd 5 23/02/2017 10:29:32

Picture Menu Functions and Settings

OSD setup under HDMI/BNC input mode



PICTURE Menu

1. Press the MENU button to bring the menu on screen,
2. and then press ▼ / ▲ buttons to move up and down across the menu selections to highlight the PICTURE menu.
3. Press the MENU button to enter the (highlighted) PICTURE sub menu.
4. MON18L, MON21L, MON23L press the ◀ / ▶ buttons to adjust the value of the highlighted item.
5. Press the MENU button to save the values.
6. Press Source/EXIT to exit the sub-menu and go back to the main menu choices.
7. Pressing the Source/EXIT button while at the top level will close the menu and return to normal operations.

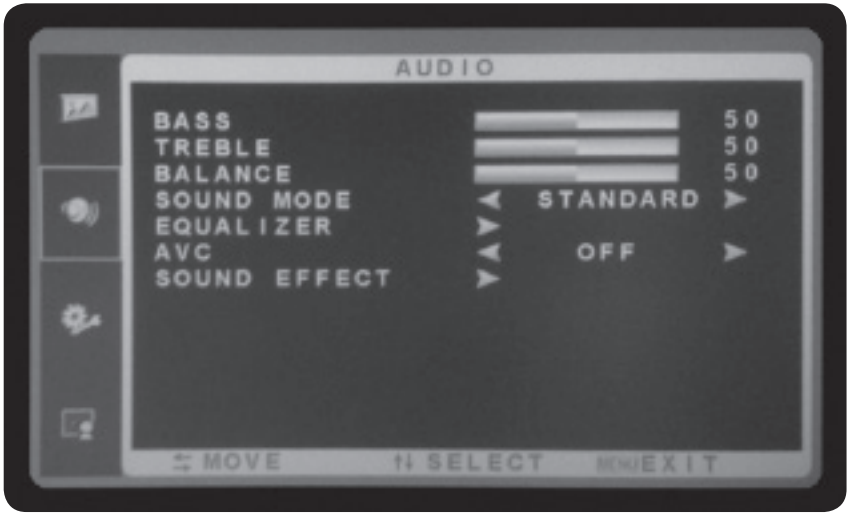
Adjustments

CONTRAST:	Adjusts the contrast between light and dark areas of the picture
BRIGHTNESS:	Adjusts the overall picture shade and brightness
HUE:	Increase or decrease the hue or tint of the image
SATURATION:	Increase or decrease the saturation of the image
SHARPNESS:	Increase or decrease the sharpness of the image
COLOUR TEMP:	warm, cool , normal image
SCALE:	off and on
PICTURE OVERSCAN:	off and on
PICTURE MODE:	vivid, soft , standard, user image

MON18L, MON21L, MON23L Manual.indd 6 23/02/2017 10:29:32

Audio Menu Functions and Settings

OSD setup under HDMI/BNC input mode



AUDIO Menu

1. Press the MENU button to bring the menu on screen,
2. and then press ▼ / ▲ buttons to move up and down across the menu selections to highlight the AUDIO menu.
3. Press the MENU button to enter the (highlighted) AUDIO sub menu.
4. MON18L, MON21L, MON23L press the ◀ / ▶ buttons to adjust the value of the highlighted item.
5. Press the MENU button to save the values.
6. Press Source/EXIT to exit the sub-menu and go back to the main menu choices.
7. Pressing the Source/EXIT button while at the top level will close the menu and return to normal operations.

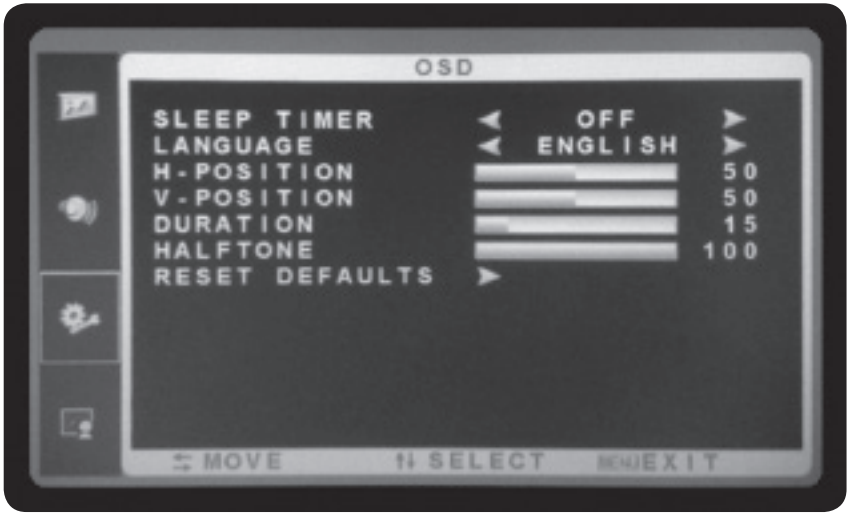
Adjustments

BASS:	Increase or decrease the bass of the audio
TREBLE :	Increase or decrease the treble of the audio
BALANCE:	Increase or decrease the balance of the audio
SOUND MODE:	USER ,STANDARD,MUSIC,MOVIE
EQUALIZER:	120HZ, 500HZ, 1500HZ, 5KHZ, 10KHZ
AVC:	OFF/ON
SOUND EFFECT:	OFF/ON

MON18L, MON21L, MON23L Manual.indd 7 23/02/2017 10:29:32

OSD Menu Functions and Settings

OSD setup under HDMI/BNC input mode



OSD Menu

1. Press the MENU button to bring the menu on screen,
2. and then press ▼ / ▲ buttons to move up and down across the menu selections to highlight the OSD menu.
3. Press the MENU button to enter the (highlighted) OSD sub menu.
4. MON18L, MON21L, MON23L press the ◀ / ▶ buttons adjust the value of the highlighted item.
5. Press the MENU button to save the values.
6. Press Source/EXIT to exit the sub-menu and go back to the main menu choices.
7. Pressing the Source/EXIT button while at the top level will close the menu and return to normal operations.

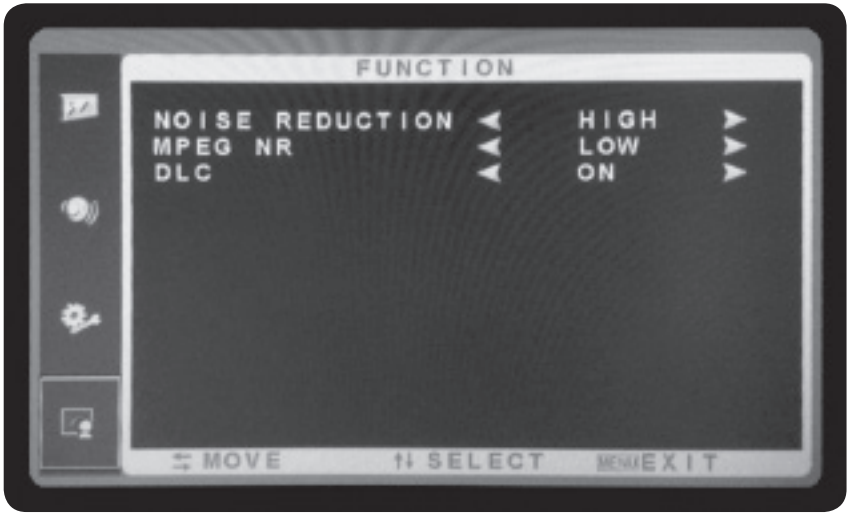
Adjustments

SLEEP TIMER:	The OSD Menu closes automatically after a set sleep time (between 1 and 60 seconds)
LANGUAGE:	OSD Menu Language selection.
H. POSITION:	Adjusts the OSD Menu's Horizontal Position.
V. POSITION:	Adjusts the OSD Menu's Vertical Position.
DURATION:	Increase or decrease the duration of the OSD Menu
HALFTONE:	Increase or decrease the Halftone of the OSD Menu
RESET DEFAULTS:	Reset to the OSD Defaults

MON18L, MON21L, MON23L Manual.indd 8 23/02/2017 10:29:32

Function Menu and Settings

OSD setup under HDMI/BNC input mode



FUNCTION Menu

1. Press the MENU button to bring the menu on screen,
2. and then press ▼ / ▲ buttons to move up and down across the menu selections to highlight the FUNCTION menu.
3. Press the MENU button to enter the (highlighted) FUNCTION sub menu.
4. MON18L, MON21L, MON23L press the ◀ / ▶ buttons to adjust the value of the highlighted item.
5. Press the MENU button to save the values.
6. Press Source/EXIT to exit the sub-menu and go back to the main menu choices.
7. Pressing the Source/EXIT button while at the top level will close the menu and return to normal operations.

Adjustments

NOISE REDUCTION:	OFF and ON
MPEG NR:	LOWER , MIDDLE , HIGHER
DLC:	OFF and ON

MON18L, MON21L, MON23L Manual.indd 9 23/02/2017 10:29:32

Mounting Guide

Wall or Other Mounting with VESA Standard

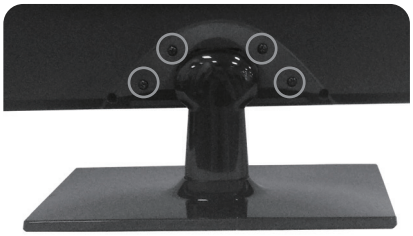
Caution

The wall mount must bear a minimum of five times the monitor's net weight. To mount your Monitor to the wall or another surface, you need to purchase a VESA wall mount.

Use four M4 x 8mm screws (not included) to attach the mount. The monitor mount VESA hole pattern is 75mm x 75mm or 100mm x 100mm.

Note: Metric (M4 x 8 mm) is the type screw that should be used (do not use longer screws or the monitor may be damaged).

MON18L



MON21L and MON23L

1. Before mounting the monitor, remove the base riser (vertical portion of the base) by removing the two screws at the top with a screwdriver. Then the base and the riser can be removed. In order to prevent losing the two screws, we suggest replacing the screws in their original holes.
2. Attach the VESA mount (75mm x 75mm or 100mm x 100mm) plate to the rear of the monitor and follow all of the instructions provided with the mount to complete the mounting process.

Power Management

Power Consumption: <25W

LED INDICATOR

The power management feature of the monitor is comprised of three stages: On (Green Light), No Signal (Flashing Green Light), and Off (No Light).

MODE	COLOR	MONITOR OPERATION
ON	Green	Normal Operation
NO SIGNAL	Flashing Green	No Signal
OFF	None	Power Off

MON18L, MON21L, MON23L Manual.indd 10 23/02/2017 10:29:33

Technical Specifications

Model	MON18L	MON21L	MON23L
Size	18.5" LED CCTV monitor	21.5" LED CCTV monitor	23.8" LED CCTV monitor
Aspect Ratio	16:9	16:9	16:9
Resolution (H x V)	1360 x 768	1920 x 1080	1920 x 1080
Colors	16.7M	16.7M	16.7M
Viewing Angle	H: 170° V: 160°	H: 178° V: 178°	H: 170° V: 160°
Viewing Lines	420 TV Lines	420 TV Lines	420 TV Lines
Contrast Ratio	10000:1 (DCR)	10000:1 (DCR)	10000:1 (DCR)
Response Time	2ms	2ms	2ms
3D Comb Filter with De-interlace	Yes	Yes	Yes
3D Noise Reduction	Yes	Yes	Yes
Brightness	250cd/m2	250cd/m2	250cd/m2
Speakers	2 each (2 watts)	2 each (2 watts)	2 each (2 watts)
Composite Inputs/Outputs	BNC x 1	BNC x 1	BNC x 1
VGA	x 1	x 1	x 1
Audio Inputs	x 1	x 1	x 1
Audio Outputs	x 1	x 1	x 1
HDMI	x 1	x 1	x 1
Auto Adjustment	YES	YES	YES
Wall Hanging	VESA Standard	VESA Standard	VESA Standard
VESA Size	100 x 100mm	75x 75mm	75x 75mm
Stand	Plastic	Plastic	Plastic
Bezel	Plastic	Plastic	Plastic
OSD Language	English, Chinese	English, Chinese	English, Chinese
Power Consumption	<25W	<25W	<25W
Power Supply	AC100-240V~ 50/60 Hz 1.1A	AC100-240V~ 50/60 Hz 1.1A	AC100-240V~ 50/60 Hz 1.1A
Packaging (L x D x W) mm	496 x 144 x 377	574 x 107x 408	611 x 139 x 445
Gross Weight	(3.8Kg)	4.5Kg	5.2Kg
Net Weight	(2.9Kg)	3.5Kg	4.3Kg
Operating Temp	32 °F - 122 °F	32 °F - 122 °F	32 °F - 122 °F
Safety	(0 °C - 50 °C) FCC, CE	(0 °C - 50 °C) FCC, CE	(0 °C - 50 °C) FCC, CE

MON18L, MON21L, MON23L Manual.indd 11 23/02/2017 10:29:33

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