

VIDEOLOGY[®]

IMAGING SOLUTIONS INC.

LCD MONITOR USER MANUAL

45M26 26" TFT



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Doc # INS-45M26	Issue Date: 12/05/07
Revision:A	Page 1 of 16

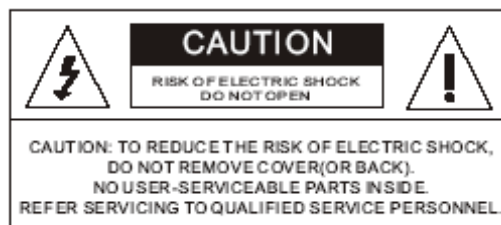
Table Of Contents

1.	Warning	3
2.	Precautions	3
2.1.	Safety	3
2.2.	Installation	3
2.3.	Cleaning	3
3.	Federal Communications Commission (FCC) Statement.....	4
4.	Features	5
5.	Operating Instructions	6
5.1.	Control.....	6
6.	Connectors.....	7
6.1.	Monitor Back Panel.....	7
7.	OSD Architecture.....	8
7.1.	Video Function	8
8.	Video Function (PC Mode Only).....	9
8.1.	Audio Function (All Models)	10
9.	LCD Monitor Mounting Guide	11
9.1.	Desktop Mount	11
9.2.	Wall / VESA mount.....	11
10.	Device Connectors	12
11.	Specifications	13
12.	Appendixes	14
12.1.	Troubleshooting	14
12.2.	Package Contents	14
13.	Remote Control.....	15
14.	Contact	16

1. Warning

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK:
DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION:



Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

2. Precautions

2.1. Safety

Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further. Unplug the unit from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself. Allow adequate air circulation to prevent internal heat built-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

2.2. Installation

Do not install the unit in an extremely hot or humid place or in a place subject to excessive dust or mechanical vibration. The unit is not designed to be waterproof. Exposure to rain or water may damage the unit.

2.3. Cleaning

Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzene as they might damage the finish of the unit.

Retain the original carton and packing materials for safe transport of this unit in the future.

Doc # INS-45M26	Issue Date: 12/05/07
Revision:A	Page 3 of 16

3. Federal Communications Commission (FCC) Statement

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that changes or modifications not expressly approved by that party responsible for compliance could void your authority to operate the equipment.

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received including interference that may cause undesired performance.

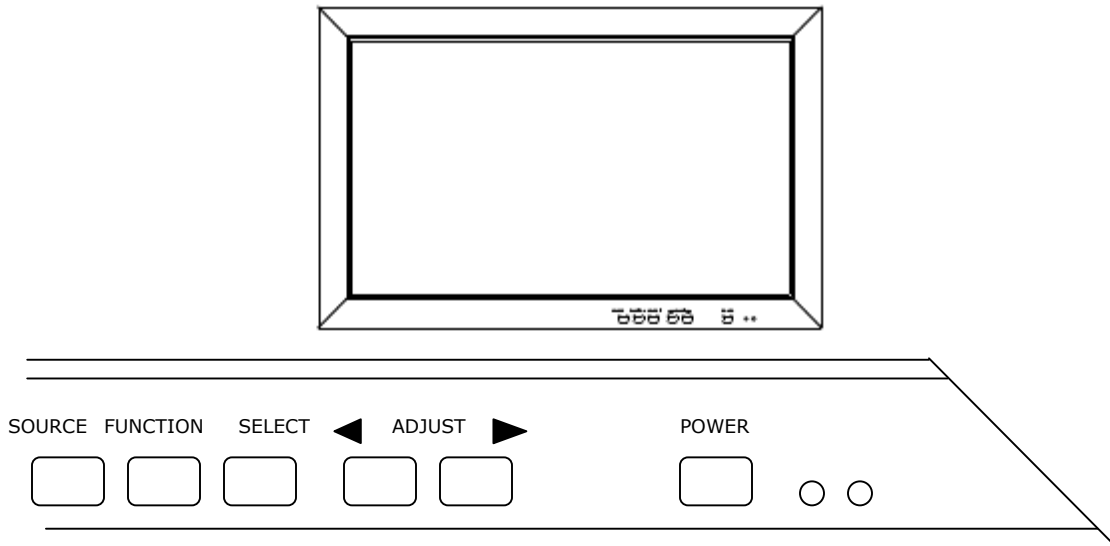
4. Features

- Compatible with VGA (640 x 480), SVGA (800 x 600) WXGA
- Support vertical refresh rate up to 75 Hz for VGA, SVGA, WXGA
- Automatic or manual detection of separate synchronize and composite synchronize of VGA signal
- 26-inch LCD monitor with multiple video inputs (composite, Y/C and D-sub)
- High brightness of 500 cd/m²
- With 3D comb filter
- High contrast 800: 1
- High quality Horizontal and vertical scaling with 3D De-interlacing for display
- Wide viewing angle of 176⁰, vertical and horizontal
- Fast LCD response time of 20ms
- Luminance Transient Improvement (LTI), Chrominance Transient Improvement (CTI)
- Video input support NTSC / PAL standard
- Built-in high precision Y/C Input signal
- Video out support auto termination (75 Ohms)
- Audio live-out function with stereo phone jack output
- Built-in 2W+2W speaker
- Support IR remote controller
- VESA standard (100mm x 100mm) bracket
- Wall mountable capability

Doc # INS-45M26	Issue Date: 12/05/07
Revision:A	Page 5 of 16

5. Operating Instructions

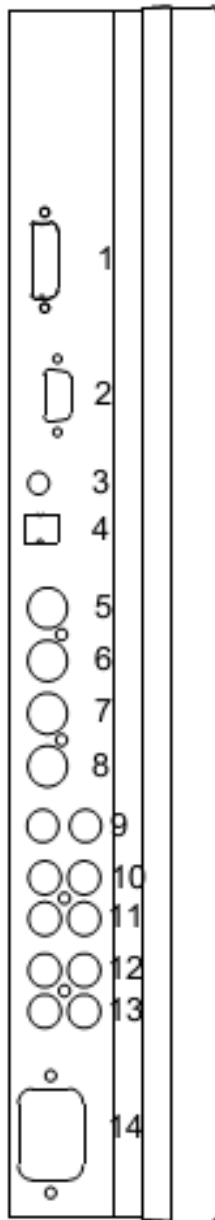
5.1. Control



- 1. Power**
Monitor power ON / OFF. At OFF mode, monitor will be at standby status
Green Light -- Power On
Red Light -- Standby mode
- 2. Adjust** ◀
Increase the value on the OSD menu or turn ON / OFF function
- 3. Adjust** ▶
Decrease the value on the OSD menu or turn ON / OFF function
- 4. Select**
Chose sub menu from Audio / Video / Image
Press again to enter selected option
PIP/ POP/ function selection
- 5. Function**
OSD menu ON / OFF control
- 6. Source**
Select input signal from AV1, AV2, S-Video or PC

6. Connectors

6.1. Monitor Back Panel



- 1 **PC DVI- IN** (Option)
- 2 **PC VGA-IN**
- 3 **AUDIO LIVE OUT** (Stereo)
- 4 **DC12V/ 1A OUT** (Option)
- 5 **VIDEO 1 IN**
Composite signal Input for VIDEO 1
- 6 **VIDEO 1 OUT**
Video looping output for VIDEO 1
- 7 **VIDEO 2 IN**
Composite signal Input for VIDEO 2
- 8 **VIDEO 2 OUT**
Video looping output for VIDEO 2
- 9 **Y/C IN (S-Video)**
Y/C separated signal Input
- 10 **AUDIO 1 IN (L, R)**
Audio signal input, this input is for Av1
- 11 **AUDIO 1 OUT (L, R)**
Audio Looping output, for AUDIO 1
- 12 **AUDIO2 IN (L, R)**
Stereo Audio Signal Input, this input is for Av2, PC or Y/C (refer to Note below)
- 13 **AUDIO 2 OUT (L, R)**
Audio Looping output, for AUDIO 1
- 14 **AC IN**

Note: Audio out is muted until video is present



Audio Connections

	Audio 1	Audio 2
PC		√
AV1	√	√
AV2		√
S-Video		√

7. OSD Architecture

7.1. Video Function

Press **SOURCE** to select a video input:

Press the **FUNCTION** button to bring up the OSD Menu.
Press   again to select **FUNCTION**, then press **SELECT** twice to enter submenu.

As shown, press   keys to adjust selection.



Note: In remote control, press   key to adjust.
(After adjustment, the monitor will store new settings)

Contrast

Permits adjustment for contrast between light or dark areas of the picture.

Brightness

Adjusts the overall picture shade and brightness.

Tip: Use the Brightness to make details in the dark areas of the picture to be just visible, and contrast to brighten the picture without causing video noise and foreheads to turn white.

Hue

Adjust all the colors on the screen, but is most noticeable to the eye in reds and yellows, and is also usually set for pleasing face tones.

Note: Appears in NTSC mode only.

Saturation

Adds coloring to the black and white picture content (of a color signal), and is usually set for viewer's preference in color saturation.

Sharpness

Sets the desired sharpening enhancement to the picture.

Color Temp

Adjust the screen color temperature 9300/ 6500/ 5800.

Display Ratio

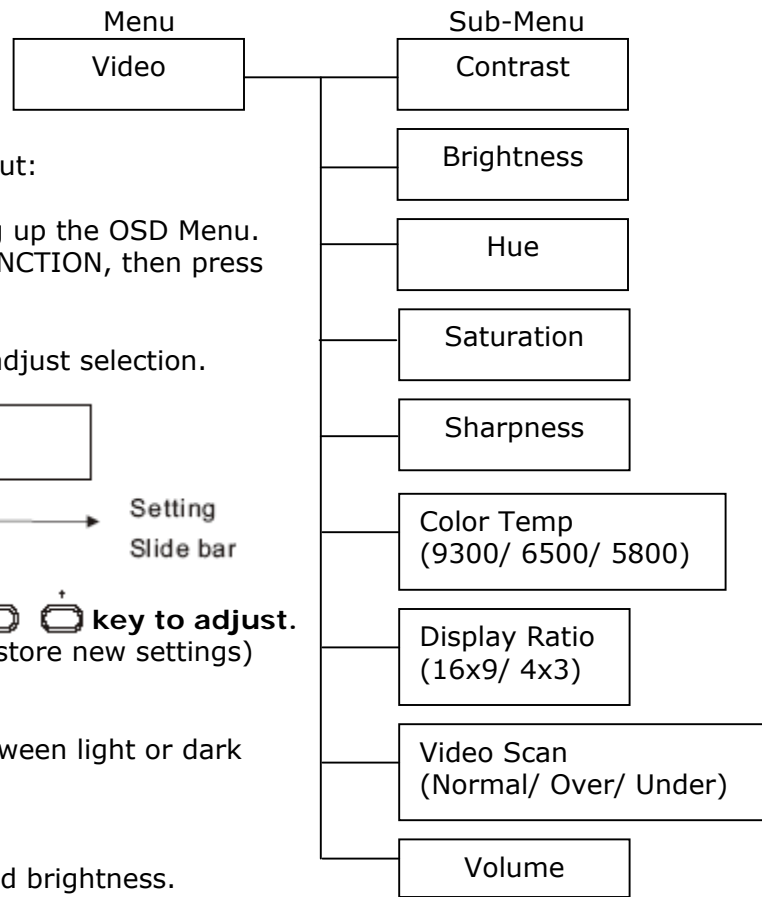
Select between 16x9 or 4x3.

Video Scan

Adjust the screen size to Normal/ Over/Under scan.

Volume

Control built-in speakers' output Volume.





Doc # INS-45M26	Issue Date: 12/05/07
Revision:A	Page 8 of 16

8. Video Function (PC Mode Only)



Press **SOURCE** to select a image input:

Press the **FUNCTION** button to bring up the OSD Menu.

Press   again to select **IMAGE**, then press **SELECT** twice to enter submenu.

As shown, press   keys to adjust selection.



Note: In remote control, press   key to adjust. (After adjustment, the monitor will store new settings)

Contrast

Permits adjustment for contrast between light and dark areas of the picture.

Brightness

Adjusts the overall picture shade and brightness.

Tip: Use the Brightness to make details in the dark areas of the picture to be just visible, and Contrast to brighten the picture without causing video noise and foreheads to turn white.

Clock

Is used to adjust to the best picture quality. It adjusts the number of the clock pixels across one timeline. Therefore it can affect the picture's position and size.

Note: Improper adjustment will caused image failure.

Phase

Is used to adjust to the best picture quality. It adjusts the sampling phase across one pixel at a time. When the phase is not adjusted properly, the picture will be unclear. Therefore this value should be carefully adjusted.

Note: Improper adjustment will caused image failure.

H-Position

Allows adjustment for the horizontal position.

V-Position

Allows adjustment for the vertical position.

Color Temp

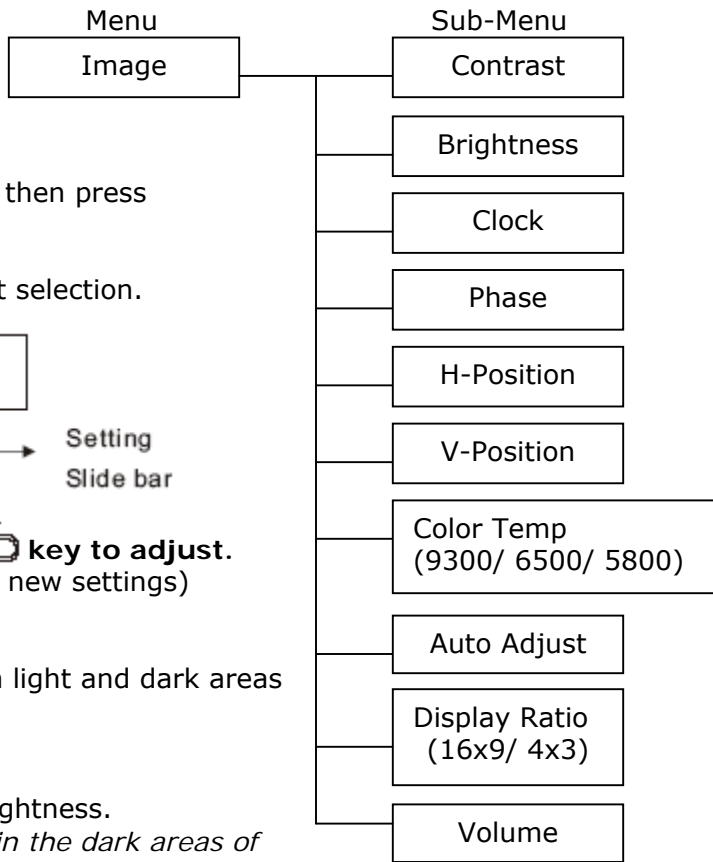
Adjust the screen color temperature 9300/ 6500/ 5800.

Auto Adjust

Auto detect screen detail data, such as clock and phase.

Display Ratio

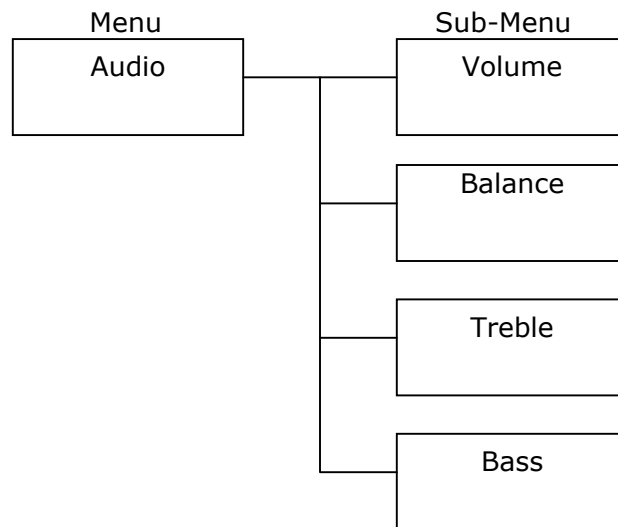
Select between 16x9 or 4x3.



Volume

Control built-in speakers' output volume.

9. Audio Function



Press the MENU button to bring up the OSD Menu.

Press again to select AUDIO, then press ITEM twice to enter submenu.

As shown, press keys to adjust selection.



Figure 1. Example

Note: In remote control, press key to adjust.
(After adjustment, the monitor will store new settings)

Volume

Controls built-in as well as external speakers output volume.

Note: Volume control can also be adjusted by hot key. (Remote Operation)

Balance (Not available on 10.4" Monitor)

Controls built-in speakers output volume.

Treble

Audio treble adjustment.

Bass

Audio bass adjustment. Will not affect internal speakers. Bass adjustment is dependant on external speaker response.

Note: Audio is muted without accompanying video input.

Doc # INS-45M26	Issue Date: 12/05/07
Revision:A	Page 10 of 16

10.LCD Monitor Mounting Guide

10.1. Desktop Mount

Adjust the viewing angle of LCD to fit the most comfortable monitoring status.

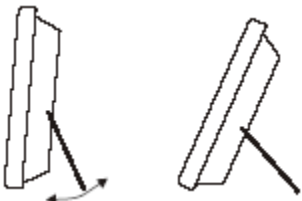


Figure 2.

10.2. Wall / VESA mount

Please follow the fix-hole size on back panel to install the LCD to the wall directly, or use a VESA mount.

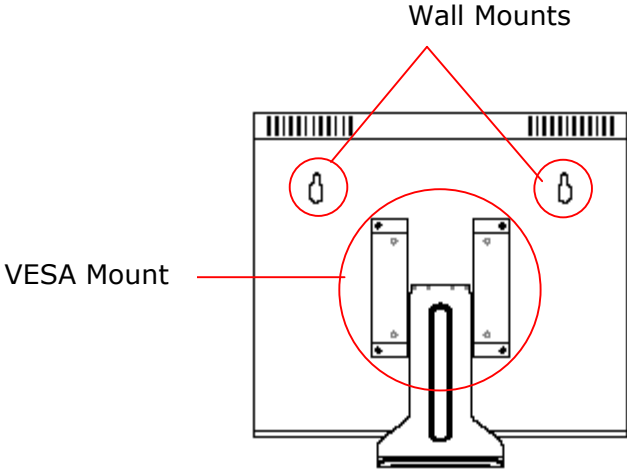


Figure 3.

12. Specifications

Electrical

		45M26
LCD Panel		26" wide screen
Display Pixels		1366 x 768
Active Area		575.769mm x 323.712mm
LCD Profile Ratio		16:9
Display Colors		16.2M
Brightness		500 cd/m ²
Contrast Ratio		800:1
Viewing Angle		Up 88°, Down 88°, Left 88°, Right 88°
Response Time		15 Tr/ 5 Tf ms
Input Signal	Video:	Composite video, 1Vp-p @75ohm
	S-Video:	Y: 1Vp-p w /Neg. SYNC. C: 0.285Vp-p
	PC:	Analog RGB (XGA/ SVGA/ VGA/ WXGA)
	Audio:	Right, Left, 50~100mVp-p
In/Out Impedance		75 ohms/ Auto Termination
Operation System		NTSC/ PAL
Output Signal	Video:	Composite video, 1Vp-p @75ohm
	S-Video:	Y: 1Vp-p w /Neg. SYNC. C: 0.285Vp-p
	Audio:	Right, Left, 50~100mVp-p
3D Comb Filter/ De-Interlace		YES
PIP & POP		Optional
Power Source		90~260VAC 60Hz/ 50Hz
Power Consumption		5A/ 105W

Environmental

Ambient Operating Temperature	-10° C ~ 60° C (14°F ~ 140°F)
Operating Humidity	20% - 80%

Mechanical

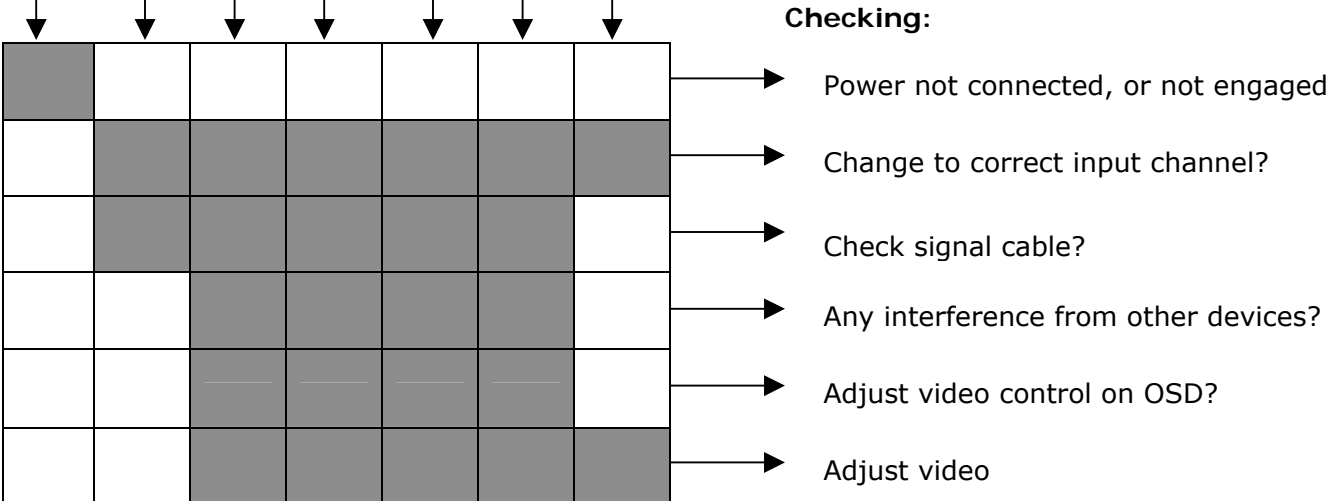
Dimensions WxHxD	668mm x 415mm x 85.5mm (26.29" x 16.33" x 3.36")
Weight	9.5 kg (20.94 lbs)
Accessories <i>included</i>	Power supply Power cord 15 pin D-sub Audio cable Bracket: VESA 100 standard
Connectors	Video: 4 - 2CH BNC input / output Audio: 8 - 2CH RCA R. L. input / output PC: 1 - 15-pin D-sub connector S-Video: 4 - 4-pin min-din

13. Appendixes

13.1. Troubleshooting

Problem:

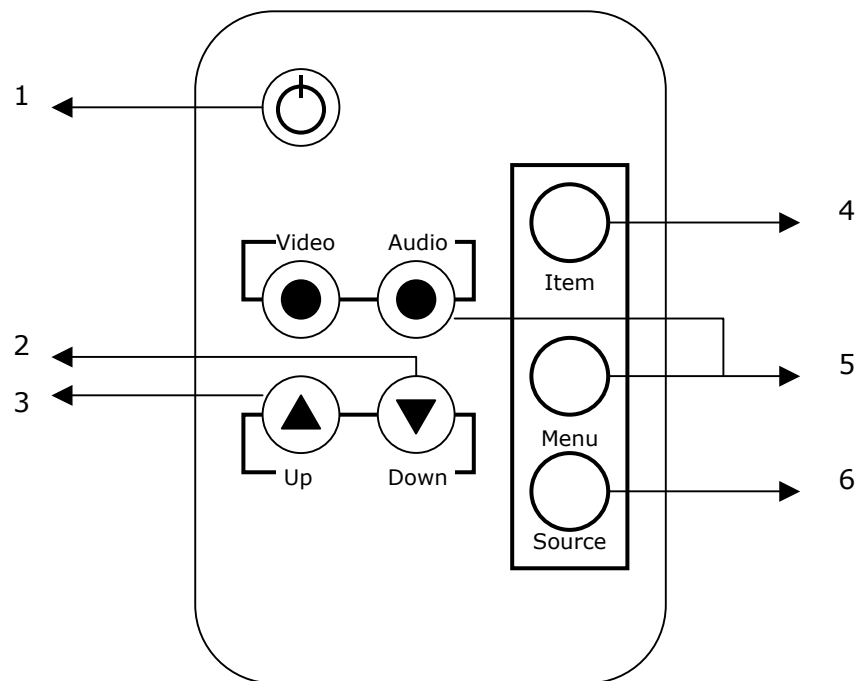
- 1. No power
- 2. No video or audio
- 3. Bad video or audio
- 4. Image not stable
- 5. Abnormal line
- 6. Ghost image
- 7. Desired video disappears



13.2. Package Contents

- A. LCD monitor
- B. Power cord
- C. Accessory kit
 - a. DB15 – DB15 VGA cable
 - b. 1/8" male to 1/8" male mini stereo plug cable
- D. User manual
- E. 12V Power Adapter
- F. Remote Control

14.Remote Control



- 1. Power**
Monitor power ON / OFF. At OFF mode, monitor will be on standby status
LED - Green Light -- Power On
Red Light -- Standby mode
- 2. Adjust ▼**
Decrease the value on the OSD menu or turn ON / OFF function
- 3. Adjust ▲**
Increase the value on the OSD menu or turn ON / OFF function
- 4. Item**
Chose sub menu from Audio / Video / Image
Press again to enter selected option
- 5. Menu**
OSD menu ON / OFF control
- 6. Source**
Select input signal from AV1, AV2, S-Video or PC

15. Contact

To contact Videology Imaging Solutions:

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Please also visit our WEB-site at:

<http://www.videologyinc.com/>

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Videology Imaging Solutions Inc. is an ISO 9001 registered video camera developer and manufacturer serving security, industrial and machine vision, biometric and specialty OEM markets. The main facility is based in Greenville, Rhode Island, USA and Videology Imaging Solutions BV is located in Uden The Netherlands. The company designs, develops, manufactures and distributes video, image acquisition and display products.

Doc # INS-45M26	Issue Date: 12/05/07
Revision:A	Page 16 of 16