



VTS MEDICAL SYSTEMS®

VividImage®

Medical Grade

Monochrome Monitor

OPERATION MANUAL

MON-VTS21MC-2MP

MON-VTS21MC-3MP

MON-VTS20MC-5MP



MON-VTS21MC-3MP



Notice for Users

IMPORTANT:

To aid in reporting in the case of loss or theft, or for service maintenance purposes, please record the monitor's model and serial numbers in the space provided. The numbers are located on the back of the monitor.

Model No:

Serial No:

FCC Statement

WARNING – FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Declaration of Conformity

**VividImage® Monochrome Monitor-
MON-VTS21MC-2MP / MON-VTS21MC-3MP / MON-VTS20MC-5MP:**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE:

EN 55022, EN61000-3-2, EN 61000-3-3, EN 55024, IEC 61000-4, EN 60950 (low voltage directive)

Function, Intended Application and Mode of Operation:

The VividImage® Series of monitors are intended to be used in the displaying and viewing of video and graphics for review and analysis by trained medical practitioners. The mode of operation for this device is continuous operation.

For a complete list of current certifications, please refer to the Specifications page of this manual.

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Tips and Safety Precautions

- Do not display a still image for ten (10) or more hours. An afterimage may remain.
- It may be difficult to see the image on the screen if the brightness is adjusted to the minimum setting.
- The quality of the video signal may influence the quality of the displayed image.
- Do not open the monitor.
- When unpacking, carrying or mounting the monitor, at least two people are needed. Make sure the monitor is in the upright position.

Monitor and Accessory Checklist

- Included in the carton are the following items:

- 1 VividImage® Monochrome Monitor
- 1 Power Cord
- 1 VGA Cable (2MP model only)
- 1 DVI-D cable
- 1 Quick Start Guide
- 1 Operation Manual (this document)

Notes:

- Retain the carton and packing material for storing or transporting the monitor.

Mounting

- Always follow mounting instructions to avoid physical injury and/or damage to the monitor.

Location

- Use the monitor in a suitable environment. See “Operating Temperature” and “Storage Temperature” on the Specifications page of this manual.
- Use caution around liquids as you would with any electrical appliance.
- Do not place the monitor on unstable surfaces.
- In all cases, refer to the specifications in this manual to ensure proper monitor performance. Use of the monitor outside of operating specifications will void the monitor warranty and may cause permanent damage to the monitor.

Power Cord

- Do not damage the power cord. Damage to the cord may result in fire or electric shock.
- Do not add extension cords.
- Use only the power cord included with the monitor.
- Insert the power plug directly into the AC outlet.
- Do not remove or insert the power plug with wet hands. Doing so could result in electric shock.

Manual Scope

- This manual is written for use with the 2MP, 3MP and 5MP VTS Medical Grade Monochrome monitors. When describing a different specification between the models, the model number is given. (When the model number is not given, the description is true for all models. For product appearance, illustrations of model MON-VTS21MC-3MP are used in this manual.)



Monitor Set-Up and Connections

Step 1: Unpacking the Carton

Included in the carton are the following items:

- 1 VividImage® Monitor
- 1 Power Cord
- 1 VGA Cable (2MP model only)
- 1 DVI-D Cable
- 1 Quick Start Guide
- 1 Operation Manual (this document)

If any one of these items is missing, please call VTS Customer Support at (877) VTS-1788.

Step 2: Mounting the Monitor

The monitor can be placed on the included stand or can be mounted to a VESA wall mount kit (not included.) The VESA hole pattern (100mm) is indicated with a white dot in Figure 1 below. The monitor also includes a 75mm VESA hole pattern.

Instructions on how to mount the monitor to a VESA mount will be included with the mounting kit.

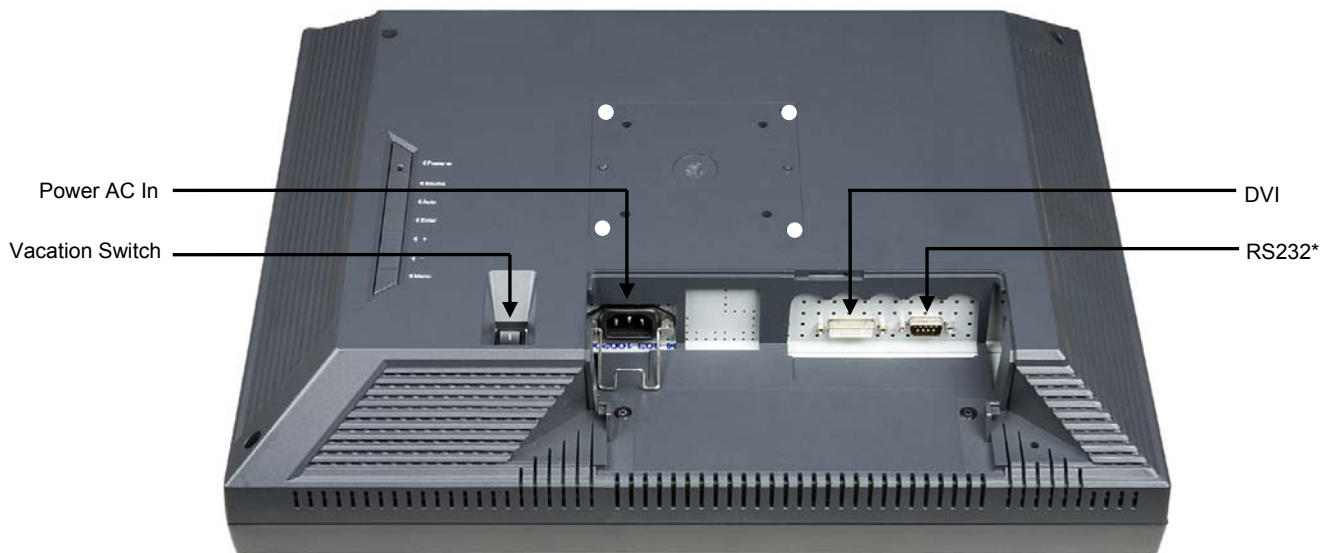


Figure 1: Rear View of MON-VTS21MC-3MP Monitor with Cable Cover Removed

*Port is for the manufacturer to load firmware. It is not for end-user utilization.

MON-VTS21MC-2MP includes a D-SUB / VGA port (not show)

Step 3: Connecting the Video Inputs

The video input cable(s) should be attached to the appropriately labeled ports on the back of the monitor as shown in Figure 1.

Step 4: Connecting the Power Cord

Plug the appropriate end of the power cord into the 3-pronged interface on the back of the monitor. Plug the opposite end of the cord into an outlet. The Vacation Switch on the back of the monitor must be turned on. The Vacation Switch is a true on/off switch. If this switch is in the "Off" position, the monitor cannot be turned on using the front button. Turn on the computer. Auto Adjust automatically adjusts the monitor to optimal settings upon initial setup. For further adjustments, refer to the OSD section of this Operation document.

Step 5: Raising and Lowering the Monitor

The monitor may be raised or lowered in either Portrait or Landscape mode. To raise or lower, place hands on each side of the monitor and lift or lower to the desired height.

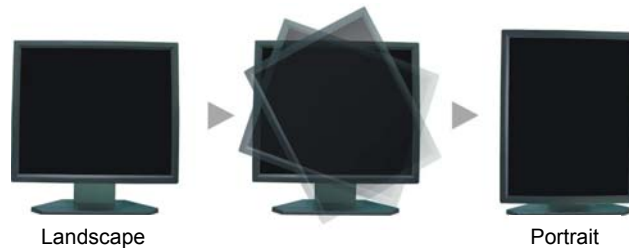


Figure 2: Screen Rotation

Before rotating, the monitor must be raised to the highest level. To raise the monitor, place hands on each side and lift up to the highest position, see Figure 2.

To rotate the monitor, place hands on each side and turn clockwise from Landscape to Portrait or counterclockwise from Portrait to Landscape.

To rotate the On Screen Display (OSD) menu between landscape and portrait, refer to the "OSD Controls" section of this document under "OSD Rotation."

Step 6: Tilting and Swiveling the Monitor

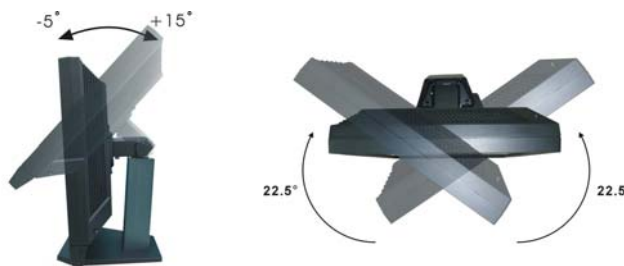


Figure 3: Tilt and Swivel

Tilt – Grasp top and bottom sides of the monitor and adjust the tilt as desired. (If the screen is rotated counterclockwise, the tilt function is not available.)

Swivel – Grasp right and left sides of the monitor and adjust the swivel as desired.



User Interface

The User Interface

The monitor allows you to easily adjust the characteristics of the image being displayed. All of these adjustments are made using the control buttons on the back of the monitor. An on screen display shows changes as control buttons are adjusted.

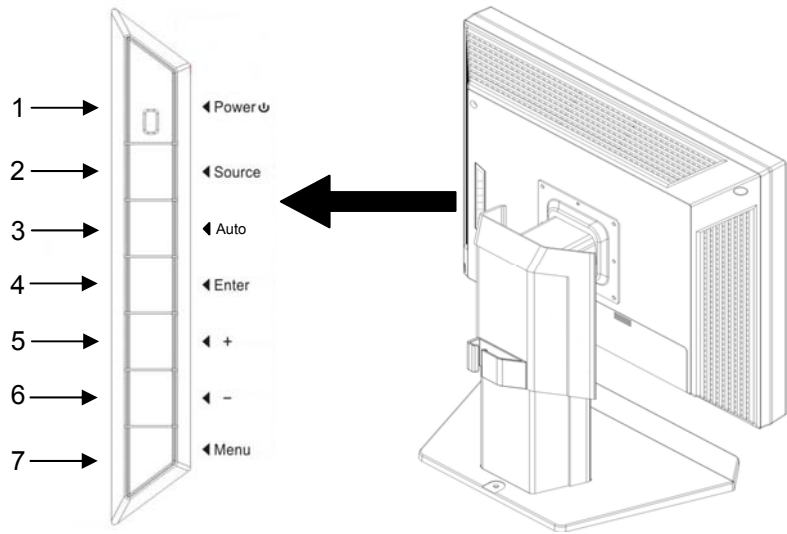


Figure 4: The Back Panel User Interface

No.	Button	Description
1	Power	Power Indicator- Green: Normal Orange: Power Saving, No Signal Off: Power Off
2	Source	“Input Source Selection” (MON-VTS19MC-2MP) “Gamma Items Selection” * (MON-VTS21MC-3MP and MON-VTS20MC-5MP)
3	Auto	“Mode Items Selection” (MON-VTS19MC-2MP) “Show Information” (MON-VTS21MC-3MP and MON-VTS20MC-5MP)
4	Enter	Access and control the function of sub-menu when OSD is shown.
5	+	Press the “+” to select sub-menu items and increase adjustment when OSD is shown.
6	-	Press the “-” to select sub-menu items and decrease adjustment when OSD is shown. (Also used to unlock OSD menu; see page 13, “How to Unlock”)
7	Menu	Start the OSD feature. Exits the OSD controls. Exits to the OSD main menu.

*Refer to the Quick Access Controls section on page 16.



On Screen Display – 2MP

The following On Screen Displays (OSD) are for the **MON-VTS19MC-2MP** monitor:
(OSD functions for the MON-VTS21MC-3MP and MON-VTS21MC-5MP can be found on page 15)

OSD Adjustments

1. Power on the Monitor.
2. Press "**Menu**" button to start the OSD menu.
3. Press "+" or "-" button to select the menu items.
4. Press "**Enter**" button to enter the menu item.
5. Press "+" or "-" button to select sub-menu items.
6. Press "**Enter**" button to enter the sub-menu item.
7. Press "+" or "-" button to change the current setting of the function.
8. Exit the OSD menu or go back to the previous action by clicking the "**Menu**" button. Changes will be saved automatically.

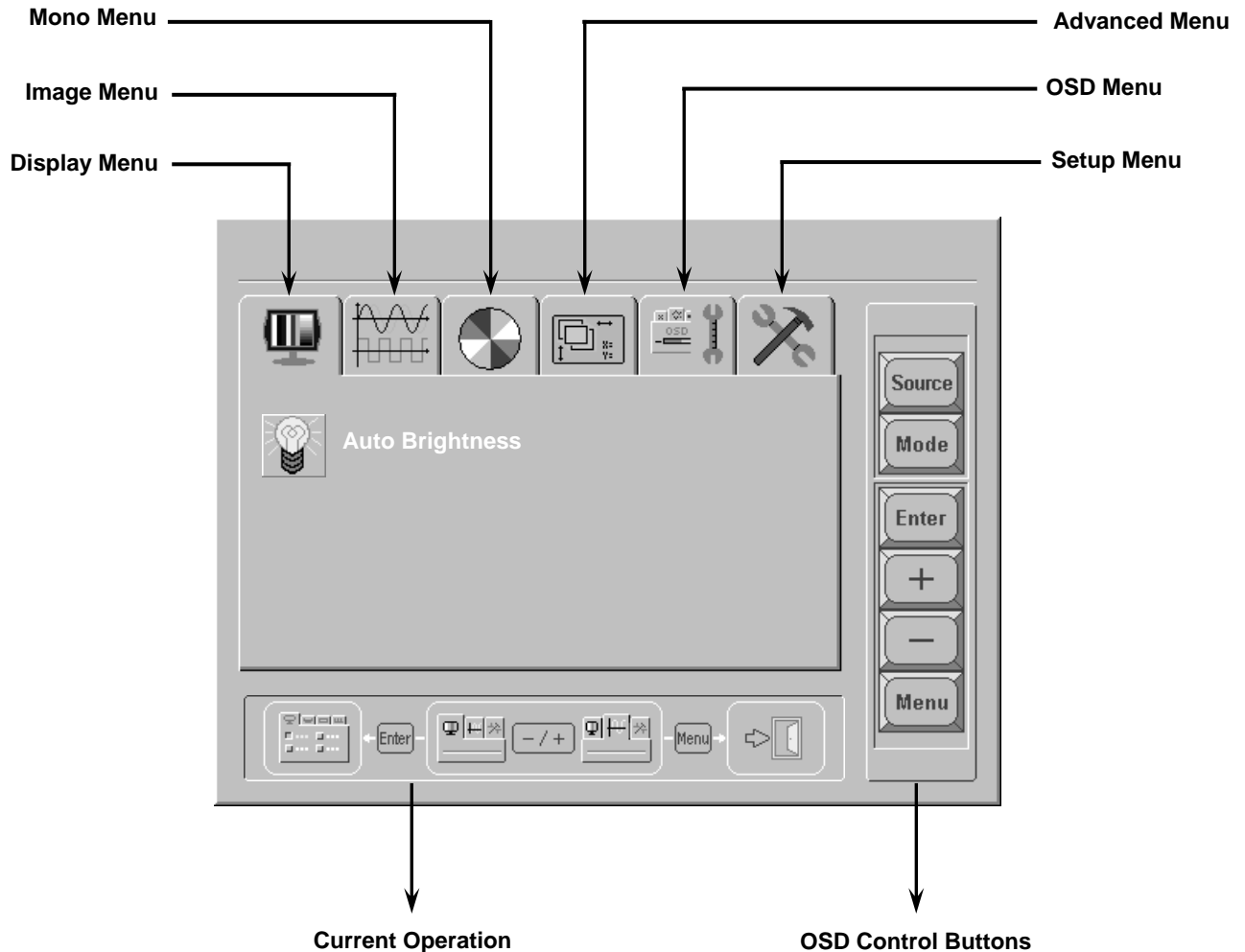


Figure 5: OSD Display Menu



On Screen Display Menu Function – 2MP

The following OSD Menu Functions are for the **MON-VTS19MC-2MP** monitor:
(OSD Menu functions for the MON-VTS21MC-3MP and MON-VTS21MC-5MP can be found on page 15)



Display Menu



Auto Brightness

Auto light sensor setting.



Brightness

Adjust the brightness of the screen.

This function can only be shown when Auto Brightness is "Off."



Contrast

Adjust the contrast of the image.

This function can only be shown when Auto Brightness is "Off."



Image Menu

This function can only be shown when Source is analog



AUTO

Auto Adjust

Automatically adjust image Clock, Phase, H-Position, V-Position settings



AUTO

Auto Balance

Automatically adjust color of the image.



Phase

Adjust the focus of the image.



Clock

Adjust the clock pulse of the image.



H-Position

Move the image left and right on the screen.



V-Position

Move the image up and down on the screen.



Mono Menu



Gamma

Adjust Gamma value.



Advanced Menu



Scaling

Adjust Image size.



Zoom Mode

Change the screen size according to the image aspect ratio.



Start Screen

On/Off start screen.



Auto Mode

On/Off Auto Adjust.



LED Mode

On/Off LED function.



OSD Menu



H-Position

Move the OSD left and right on the screen.



V-Position

Move the OSD up and down on the screen.



Rotation

Rotate the OSD.



Time Out

Adjust OSD display time setting.



Language

Choose language of the display on the screen.



Setup Menu



All Reset

Recall all factory default settings.



Lock Mode

Lock the OSD function.



Overlapped

Set values when images overlap.



DVI Select

Select DVI source.



Information

Show Firmware, Source and Resolution.

Table 1: OSD Menu Function

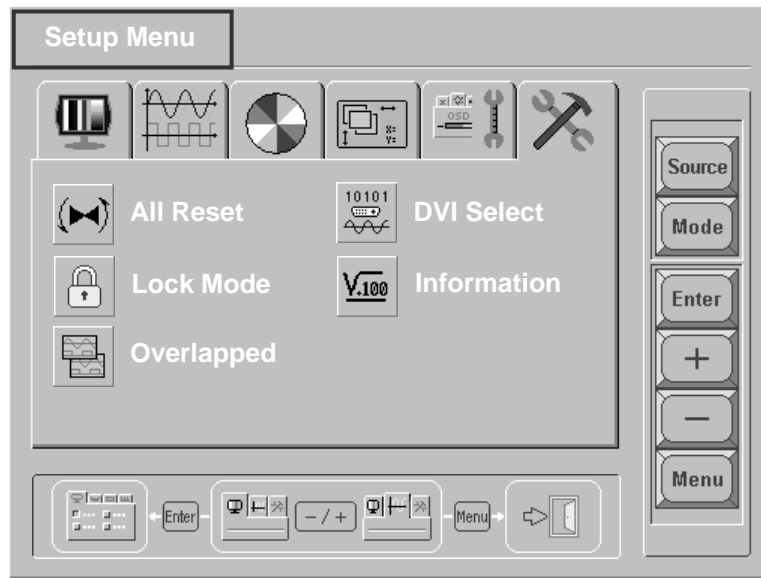


Structure of On Screen Display Menus – 2MP

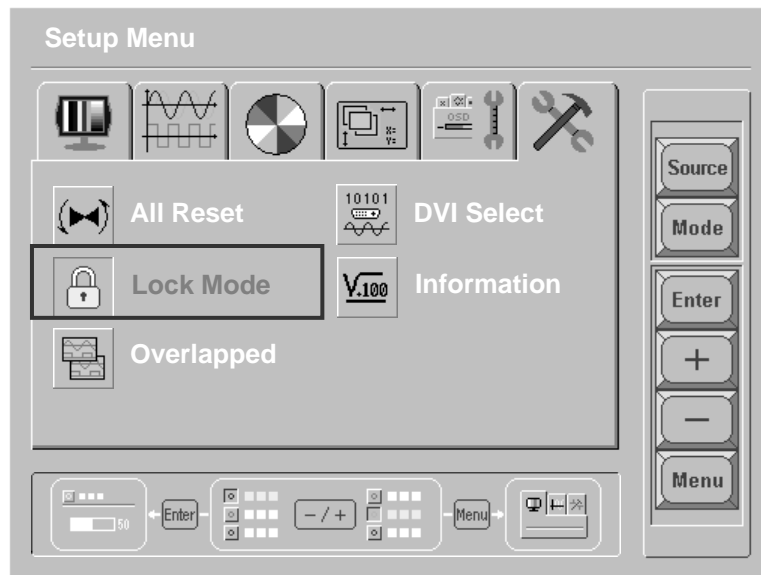
The following Structure of OSD Menus are for the **MON-VTS19MC-2MP** monitor:

How To Lock

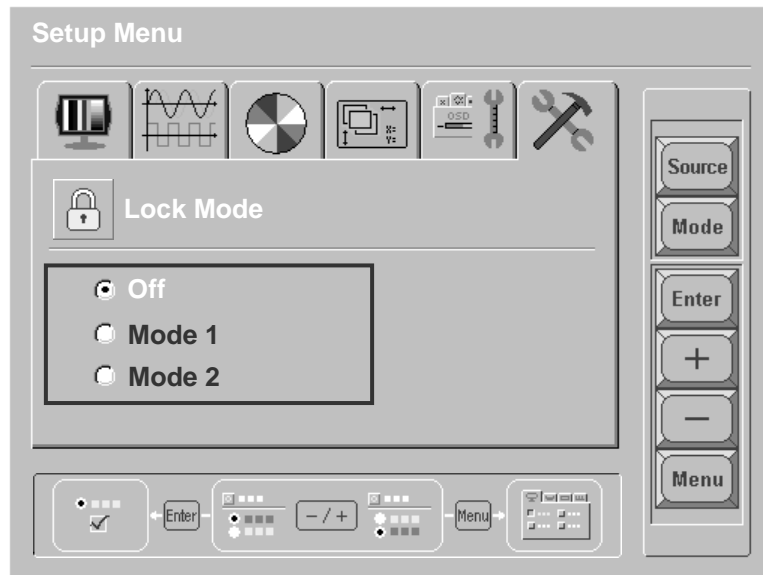
1. Press “**Menu**” key to start OSD menu.
2. Select “**Setup Menu**” and press “**Enter.**”



3. Select “**Lock Mode**” and press “**Enter.**”

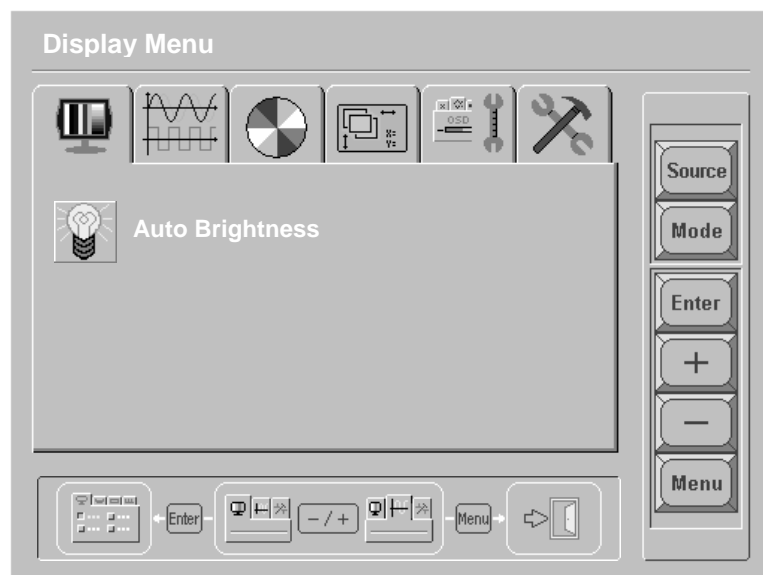


4. Selecting **“Lock Mode”** and pressing **“Enter”** will automatically save the settings.

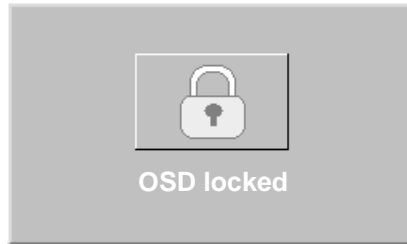


Lock Mode

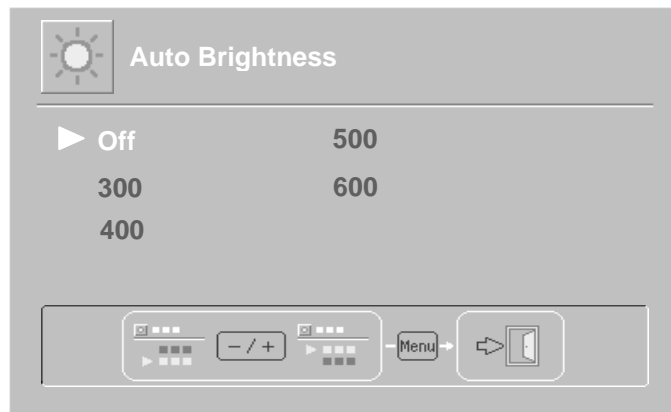
- **Off:** OSD Menu is not locked. Pressing “Menu” starts the OSD menu and all functions can be adjusted.
 - **Mode 1:** OSD Menu is locked and no functions can be adjusted.
 - **Mode 2:** OSD Menu is locked except “Brightness.” Pressing “Menu” displays the “Brightness” control menu.
 - **Default:** Default value is “Off.”
5. Press **“Menu”** button and exit OSD:
 - If setting is in **“Off”** mode, pressing **“Menu”** will show this image:



- If setting is in “**Mode 1**,” pressing “**Menu**” will show this image:

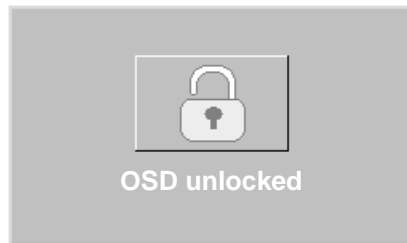


- If setting is in “**Mode 2**,” pressing “**Menu**” will show this image:



How To Unlock

If setting is in “**Mode 1**” or “**Mode 2**” and you want to unlock, hold the “-” key (the button on back of the monitor; see page 7, No. 6) until message on the screen displays “OSD unlocked.” Lock function is then removed.



Notes:

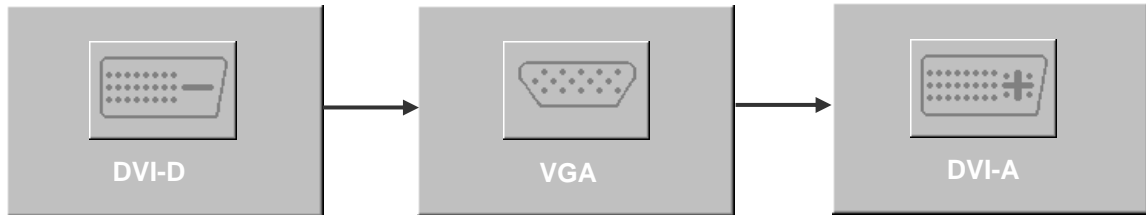
- If Lock function is removed (unlocked) using the above methods, it will be locked again when OSD function is not used for 15 minutes.
- Setting in “Off” mode removes lock function indefinitely and will not be locked automatically.

Quick Access Controls

The Quick Access Controls allow direct adjustment of settings by pressing either the “Source” or “Auto” buttons on the user interface. (These settings are not accessed through the “Menu” button.)

1. Input Source Selection

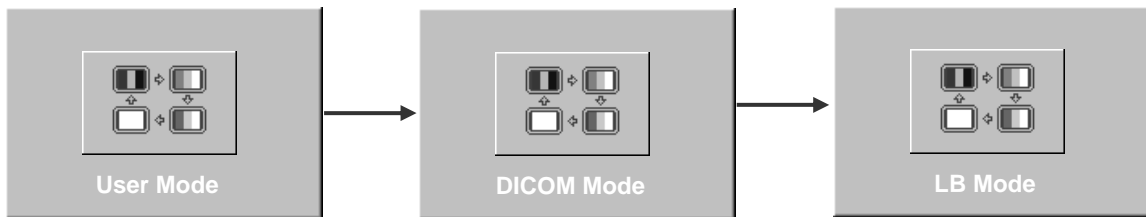
Press “**Source**” to select the input source.



- DVI-D: Acquire digital signal from the DVI-I connector.
- VGA: Acquire analog signal from the D-sub connector.
- DVI-A: Acquire analog signal from the DVI-I connector.

2. Mode item Selection

Press “**Auto**” to select the display mode.



- User Mode: User identifies the standard display operation.
- DICOM Mode: System sets the DICOM standard operation.
- LB Mode: To imitate the operation for white light lamp box.



On Screen Display & Menu Function – 3MP & 5MP

The following On Screen Display and Menu Functions are for the **MON-VTS21MC-3MP** and **MON-VTS20MC-5MP** monitors:

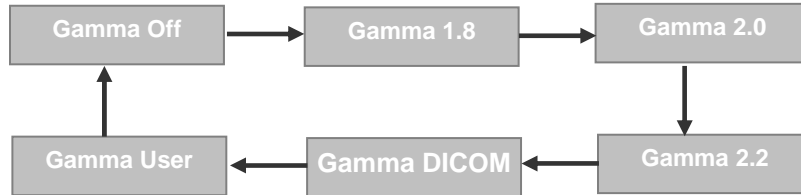


Main Menu	Sub Menu	Description
Brightness	Brightness	Adjust the brightness of the screen
Contrast	Contrast	Adjust the contrast of the image
Gamma	Gamma Off: Gamma 1.8: Gamma 2.0: Gamma 2.2: Gamma DICOM: Gamma User:	Gamma function OFF Set the Gamma value to 1.8 Set the Gamma value to 2.0 Set the Gamma value to 2.2 Set the Gamma to standard value Set the Gamma value for user
Light Sensor	Light OFF: Light 300: Light 400: Light 500: Light 600:	Light sensor OFF Set the light sensor to 300 Set the light sensor to 400 Set the light sensor to 500 Set the light sensor to 600
Sys Info	HF: VF: Res: Mdl: Mver: Fver: SN:	Horizontal Scanning Frequency Vertical Scanning Frequency Display Resolution The Model of MCU & FPGA MCU Version FPGA Version Serial Number
OSD Rotate	OSD Normal: OSD Rotate:	The OSD is landscape Rotate the OSD from landscape to portrait
MISC	Reset Start:	Restore to factory settings

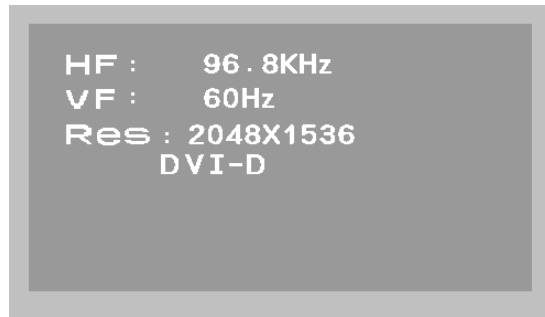
Table 2: OSD Menu Function

Quick Access Controls:

1. Source
Press "**Source**" to select the setting of Gamma.



2. Mode item Selection
Press "**Auto**" and the information will appear in the display.





Features

- **DVI**
The integrated interface ratified by the Digital Display Working Group (DDWG) that allows both digital and analog connectors off of one port. The “I” stands for integration for both digital and analog. The digital portion is DVI based.
- **DFP (Digital Flat Panel)**
An all-digital interface for flat panel monitors which is signal compatible with DVI. As a DVI-based digital only connection, only a simple adapter is necessary for compatibility between DFP and other DVI-based digital connectors such as DVI and P&D.
- **P&D (Plug and Display)**
The VESA standard for digital flat panel monitor interfaces. It is more robust than DFP since it allows for other options off of a signal connector (options like USB, analog video and IEEE-1394-995). The VESA committee has recognized that DFP is a subset of P&D. As a DVI-based connector (for the digital input pins), only a simple adapter is necessary for compatibility between P&D and other DVI-based digital connectors such as DVI and DFP.
- **Pivoting Stand**
Allows users to adjust the monitor to the orientation that best fits their application, either Landscape orientation for wide documents, or Portrait orientation for the ability to preview a full page on one screen at one time. The Portrait orientation also works well for full screen video conferencing.
- **OSD (On-Screen Display) Controls**
Allows you to quickly and easily adjust all elements of your screen image using simple OSD controls.
- **Ergo Design Features**
Enhances human ergonomics to improve the user’s work environment. Examples include OSD controls for quick and easy image adjustments and tilt/swivel base for preferred viewing angle.
- **Intelligent Power Management System**
Provides innovative power-saving methods that allow the monitor to shift to a lower power consumption level when on but not in use, saving electrical energy costs and reducing emissions.
- **Multiple Frequency Technology**
Automatically adjusts monitor to the display card’s scanning frequency; displaying the resolution required.
- **Full Screen Capability**
Allows you to use the entire screen area in most resolutions, significantly expanding image size.
- **Wide Viewing Angle Technology**
Allows the user to be able to see the monitor from any angle from any orientation — Portrait or Landscape. Provides the same viewing angles either up, down, left or right.
- **Gamma**
Internal circuitry automatically converts 8-bit data from the PC to 10-bit and back to 8-bit, producing a smooth image. Gamma can be set by using preset values or creating a custom setting.



Monitor Care / Troubleshooting

Monitor Care

Always remove the plug from the AC outlet when cleaning the monitor.

LCD Panel

Use a mild soap & water mixture with a soft cleaning cloth. Do not use ammonia based cleaning solutions. LCD cleaning wipes, available where electronics are sold, can also be used.

Cabinet

The monitor cabinet (all but the screen) can be cleaned with any alcohol based glass cleaner.

CAUTION!

Never use an organic solvent such as thinner, benzine, alcohol or glass cleaner on the screen.

Storage

If the monitor will not be used for a long period of time, be sure to remove the power plug from the AC outlet (if accessible). Store in its original carton if available. Store in a dry location in temperatures between -4 and 140 degrees Fahrenheit, as listed on the Specifications page of this manual.

Troubleshooting

Please follow these troubleshooting tips prior to contacting VTS Medical Systems for service or support.

The image is not displayed on the screen

- Is the power cord connected properly?
- Are the power cord and AC outlet functional?
- Are the computer and/or video source(s) connected to the monitor properly?
- Are the computer and/or video source(s) turned on?
- Is the Vacation switch on the back of the monitor turned on?
- Has an input (video) signal been selected that correlates to the video input(s) on the monitor?
- Is the monitor connected to a computer that is in power-saving mode (check computer manual for this feature)?
- Is the video cable functional?

OSD is not sized properly

- Use the OSD Image Adjust controls to increase or decrease the total size.

Not tilting / rotating

- Refer to "Monitor Set-up and Connections" section of this manual.

The image is glaring or dark

- Decrease/Increase the brightness of the monitor by using the "Brightness" submenu.
- Decrease/Increase the "Black Level" of the monitor by using the "Black Level" submenu.
- If using a camera as the video source, perform a "White Balance" and check the "Iris Control" on the camera (see camera's operating manual for instructions), if applicable.



Specifications

	21 Mono 2-MP	21 Mono 3-MP	20 Mono 5-MP
VividImage® Model #	MON-VTS21M-2MP	MON-VTS21M-3MP	MON-VTS20M-5MP
INPUTS:			
RGBHV (computer)	•	•	•
DVI	•	•	•
Resolution	1600 x 1200	2048 x 1536	2560 x 2048
Aspect Ratio	4:3	4:3	5:4
Brightness	1000 cd/m2	800 cd/m2	850 cd/m2
Contrast	700 to 1	700 to 1	600 to 1
Viewing Angle (horz & vert)	170	170	170
Stand	Tilt / Swivel	Tilt / Swivel	Tilt / Swivel
Landscape and Portrait Mode	•	•	•
Dimensions (in / mm)			
Width	18.89 / 480	18.89 / 480	18.66 / 474
Height	15.35 / 390	15.35 / 390	14.96 / 380
Depth	4.13 / 105	4.13 / 105	4.06 / 103
Weight (lb / kg)	15.4 / 7	15.4 / 7	16.3 / 7.4
Active Matrix LCD	•	•	•
Operating Temperature	32 to 104 Fahrenheit / 0 to 40 Celsius		
Storage Temperature	-4 to 140 Fahrenheit / -20 to 60 Celsius		
Voltage: Monitor Input	100-240V AC	100-240V AC	100-240V AC
Mounting Hole Pattern (VESA)	75 & 100mm	75 & 100mm	75 & 100mm
Power Requirements	75 Watts max	75 Watts max	100 Watts max
Certifications	CE Marking (EN 60601-1-2), China CCIB/CCEE Approval, CISPR Requirements, Eastern European Approvals (EN 600601-1-1), Energy Star Compliant, FCC Approval, ISO 13406-2 Compliant (Pixel Defect Guidelines), MPR-II Compliant, PC2001 Compliant, Taiwan BSMI Approval, UL Medical Standard Listed, UL 60601, VCCI Approvals		

Table 3: Specifications

Glossary

Black Level: This adjustment allows the display to be set to discriminate between small differences in dark or near black areas of the image. The adjustment should make a black area of the image (such as a deep shadow where all detail is lost in the image) appear black. The black level is decreased (less black) until a change toward light or grey is perceived in this area, then the adjustment should be increased slightly to restore the dark area to black. It is important to perform this adjustment on a truly black area in the image to avoid making dark areas appear lighter than they actually are.

Brightness: The intensity of light emitted from the LCD Display. This control is similar to the effect of changing the light behind a stained glass window. As the illumination is increased the overall light output of the image is increased. The proper adjustment takes into consideration the ambient light in the room. For a brightly lit room, the brightness of the display may be increased to improve the visibility of the image. In a dimly lit room, the brightness may be decreased to reduce the impact on the eye.

Clock: This adjustment is seldom necessary, but if there is a problem with the frequency of the monitor pixel clock that it cannot exactly match the clock signal from the camera, an adjustment may be required. The symptom of a clock adjustment problem is the appearance of vertical bands in the image. Adjustment of the clock will help eliminate these artifacts.

Contrast: Contrast is a function of differences in intensity between the darkest and the brightest areas of a picture. When contrast is high the picture contains sharp blacks and whites. When low, the picture shows only variations in gray tones.

Gamma: The way brightness is distributed across the intensity spectrum by a monitor, printer or scanner. Depending on the device, the gamma may have a significant effect on the way colors are perceived. Gamma is technically the relationship between the input voltage and resulting intensity of the output. A perfect linear device would have a gamma of 1.0 and be plotted on a graph called a "tone curve" as a straight line. Although a scanner is fairly linear, the tone curve of a monitor or printer is bent, yielding a gamma in the range of 1.8 to 2.6, which affects midrange tones.

Phase: This adjustment is seldom necessary, but if there is a problem with the monitor pixel clock phase or position in relation to the pixel clock generated by the camera, a phase adjustment may be required. The symptom of phase problems is the appearance of horizontal lines flickering through the image.

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