

## FCC Information

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.
- 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.

## FCC Warning:

To assure continued FCC compliance, the user must use the provided grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to this TFT LCD would void the user's authority to operate this device.

### Department of Industry Canada (IC) compliance Notice

The digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

## SAFETY PRECAUTIONS

**Caution:** Use a power cable that is properly grounded. Always use the AC cords listed below for each area:

USA .....	UL
Canada .....	CSA
Germany .....	VDE
Switzerland .....	SEV
Britain .....	BASEC/BS
Japan .....	Electric Appliance Control Act

Use an AC cord in other areas that meets local safety standards.

## Important Safety Instructions

1. Read the Safety Instructions carefully and keep it for later use.
2. Beware of all warning and instruction signs marked on the products.
3. When cleaning, cut off the electrical supply at all times. Never use liquid or aerosol detergent, use a damp rag instead.
4. Always keep the product away from heavy moisture.
5. Keep this product stable at any time. Otherwise the product may fall, hazarding the safety and causing serious damage.
6. Do not clog apertures on the product's coating, required for ventilation purpose. Do not install this product in built-in installation without proper ventilation system. Always keep this product away from all kinds of heat sources.
7. The power source used for this product must match one marked on the product's label. Please consult your dealer or local utility if you have any doubt.
8. In order to avoid the electric shock hazard in use, a 3-wire type plug with a grounding pin is provided. Do not use any kind of plug without grounding.
9. Do not lay the power cord on the pathway or rest anything heavy on it.
10. Check the current flow tolerance of an extension cord before use, make sure that the total amount of the product's current flow does not exceed the limit. A current flow of a wall outlet can never exceed up to 15 amperes.
11. Do not insert objects or pour liquid into this product through it's casting apertures. It may touch a high voltage area causing an electric shock or short the circuit.
12. Do not attempt to repair the product your self or remove the casting. It may expose you to electric shock hazard. Contact a dealer near you for the service.
13. Do not unplug the power cord under the following circumstances. A qualified field service electrician is needed.
  - a) When the power cord is damaged or frayed.
  - b) If liquid has been poured into the product.
  - c) If the product has been exposed to rain or heavy moisture.
  - d) If the product can't be adjusted and operate properly by following the operating instructions. Intent to do the more advanced adjustments yourself may cause extensive work for field service electrician.
  - e) If the product has been dropped or the casting is broken.
  - f) If there is a dramatic change of the performance.
14. A proper type of power cords has been selected according to the country of destination and must be used to prevent electric shock.

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## Getting Started

Congratulations on your purchase of a TFT LCD Color Monitor. This section lists package contents, features, precautions, as well as cleaning and installation instructions.

**Important! Please keep the original box and all packing material for future shipping needs.**

## Package Contents

Your TFT LCD Color Monitor package includes the following:

TFT LCD Color Monitor  
Video cable with 15-pin D-Sub connector and DVI-I Cable  
Audio cable (option)  
Adaptor  
Power Cord  
User Guide

## Unique Features

- High resolution, high contrast color TFT LCD providing sharp, flicker-free images.
- Power management circuit conforming to VESA® DPMS™ standard that reduces the energy consumption when the LCD monitor is not in use.
- Equipped with DDC2B™ for Plug & Play compatibility.
- Supports a true XGA resolution of 1024 x 768.
- Saves more than 2/3 of space (foot print) & energy (power).
- All plastic parts are recyclable. All materials are strictly selected to ensure ease of maintenance, inspection, and disposal.
- Approved for TCO'99.
- DC power "in" jack.
- Free run features. It will search the right frequency without interface.
- Composite sync and sync on green compatibility.
- Five languages in OSD (On Screen Display).
- Out of sync and no signal indication.
- Supports true colors.
- Image smoothing.
- Energy Saving Features.
- Both Analog Video and Digital Video capabilities.
- Supports 16 sets of factory preset modes and 16 sets of user's automatically saved modes.
- Dual Inputs.

## **Precautions**

Sit at least 18"(45 cm) away from the TFT LCD Color Monitor.

Do not press on the LCD panel as it is very fragile.

Do not touch the LCD panel with your bare hands, as the grease from your skin is difficult to remove and may damage the screen.

Do not expose the LCD monitor directly under sunlight or other heat sources. When in use, the LCD screen should be facing away from light sources to reduce glare.

Choose a well-ventilated area to place your LCD monitor to take adequate exhaustion of heat is important. Do not place anything on top of the LCD monitor.

Ensure the area around the LCD monitor clean and moisture-free.

Do not place heavy objects on the power cord, adapter, video or audio cables.

If smoke, abnormal noise, or strange odor occurs, immediately turn the LCD monitor off and call your dealer. It is dangerous to continue using the LCD monitor.

Do not remove the rear cover by yourself, the display unit contains high-voltage parts, it may expose you to the electric shock hazard. Contact your local dealer for the service if it is needed.

Always handle your LCD monitor with care when moving it.

## **Cleaning the TFT LCD Color Monitor**

To clean the LCD panel:

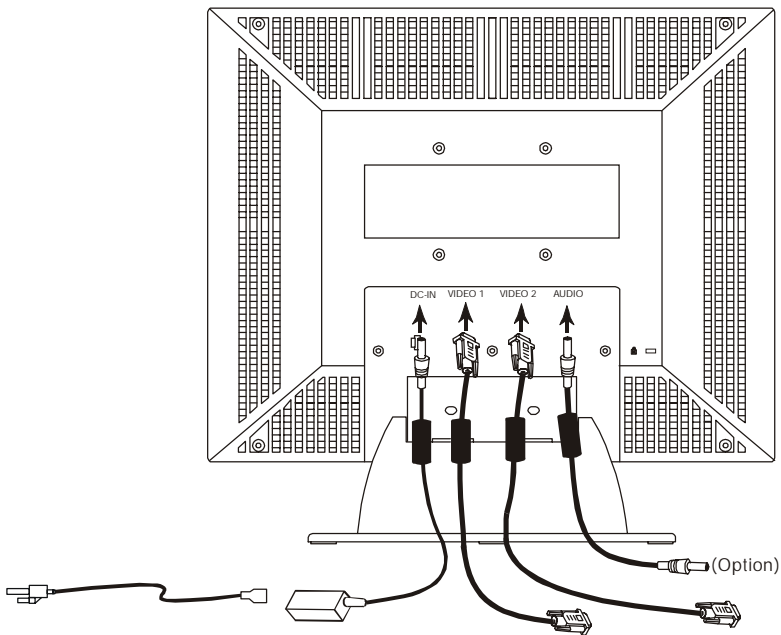
1. Wipe the screen gently with a clean lens brush of camel hair, or a soft, clean, lint-free cloth. It can remove dust and other particles that may not scratch the LCD panel.
2. If it is still not clean, blow and wipe gently with a soft, clean, lint-free cloth on the LCD panel.

**Never pour or spray any liquid onto the LCD monitor.**

**DO NOT APPLY PRESSURE TO THE LCD PANEL.**

## Quick Installation

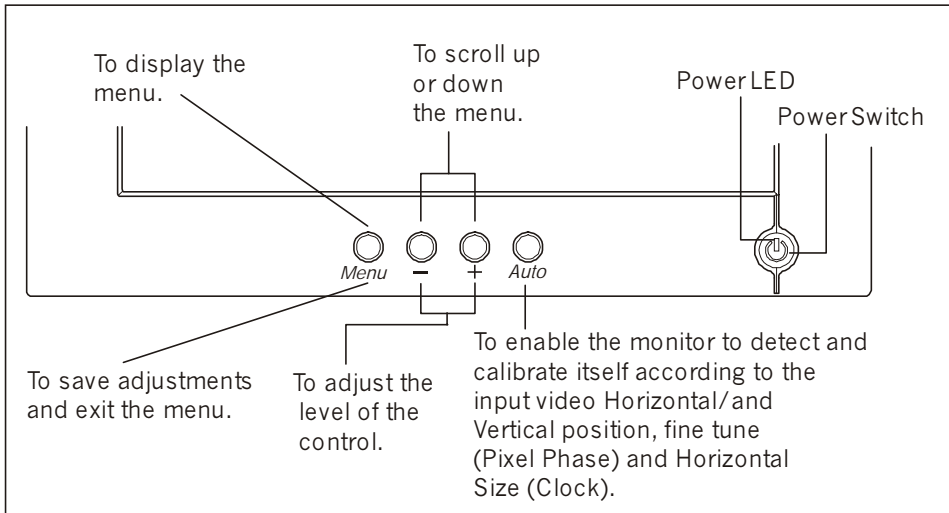
1. Make sure the computer and the LCD monitor are both turned off.
2. Attach the female end of the power cord to the adapter, then plug the adapter connector to the power "in" Jack of the LCD monitor.
3. When using a power cord, plug the male end in a wall socket.
4. If using a PC power cord, plug the male end in the socket of the computer power supply (if equipped).
5. Plug one end of the video cable in the Analog or Digital video signal connector or LCD monitor and the other end in video signal connector of the computer.
6. Turn on the computer.
7. Turn on the LCD monitor.
8. Adjust the user controls to optimize your personal preference (see Operation section, call your local dealer if you have any problems).



## OPERATIONS

To turn the **TFT LCD Color Monitor On**, push the power button at the front of the LCD monitor to active. When the power light turns green, the LCD is ready to use. To turn the LCD off, push the power switch button to de-activate the monitor.

### Front Control Panel

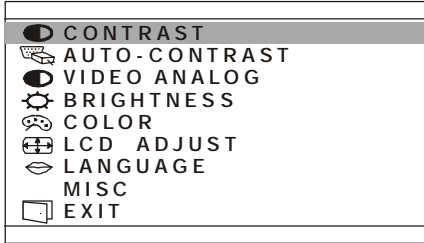


### Hot Keys

- **Smoothing** Press the **[-]** button to increase or decrease smoothing.
- **Auto-Contrast** Press the **[+]** button to activate Auto-Contrast.
- **Auto-Sync** Press the **[Auto]** button to activate Auto-Sync.

## OSD Main Menu

For screen adjustments, press the **Menu** button to access the OSD (On-Screen Display) Main Menu. Press the **[+]** or **[-]** buttons to scroll the Main Menu to your required adjustments. Please note that the OSD will automatically turn off in 30 seconds without any manipulation or by simply pressing the **Menu** button for 2 seconds.



**CONTRAST** adjusts the foreground white level of the screen image. Under Main Menu, select CONTRAST using the **[+]** or **[-]** button, then press **Menu** button to activate the function. Press the **[+]** button to increase contrast, **[-]** button to decrease contrast. Press **Menu** to return to Main Menu.



**AUTO CONTRAST** automatically adjusts foreground white level of screen image. Press **[+]** or **[-]** button selecting auto contrast, then press **Menu** button to initiate Contrast.

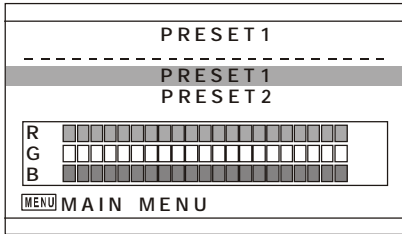
**VIDEO ANALOG** Select VIDEO ANALOG using **[+]** or **[-]** button, then press Menu button to initiate the switch between Analog Video and Digital Video.

**BRIGHTNESS** adjusts the background black level of screen image. Under the Main Menu, select BRIGHTNESS using **[+]** or **[-]** buttons, then press **Menu** button to activate the function. Press the **[+]** button to increase the brightness, **[-]** button to decrease the brightness.



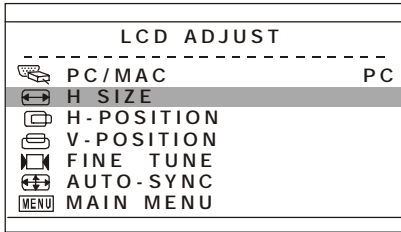


## COLOR Sub-Menu



- Under the Main Menu, select COLOR using the **[+]** or **[-]** button, then press **Menu** button to activate the COLOR sub-menu.
- Under the COLOR sub-menu, press **[+]** or **[-]** button to scroll sub-menu.
- Press the **Menu** button to choose which mode you want.
- Press the **[+]** or **[-]** button to activate the preset color mode (preset 1, preset 2 or user model R, G, B scroll bars).
- When R, G, B scroll bar is activated, press **[+]** or **[-]** button to adjust the values.
- To save and exit the selection, press the **Menu** button to return to the Main Menu.

## ☐ LCD ADJUST Sub-Menu



**PC/MAC** select PC/MAC using **[+]** or **[-]** button, then press **Menu** to initiate the switch between PC and MAC.

**H - SIZE** (Horizontal Position) moves the horizontal size (width) of the screen image. Select H SIZE using **[+]** or **[-]** button, then press **Menu** button to activate the function. Press **[+]** button to increase the width of the screen image, press **[-]** button to decrease the width of the screen image.

**H - POSITION** (Horizontal Position) moves the horizontal position of the screen image right or left. Select H-POSITION using the **[+]** or **[-]** button, then press the **Menu** button to activate the function. Press **[+]** button to move the horizontal position of the screen to the right, **[-]** button to move left.

**V - POSITION** (Vertical Position) moves the vertical position of the screen image up or down. Select V-POSITION using the **[+]** or **[-]** button, then press **Menu** to activate the function. Press **[+]** button to move the vertical position of the screen image up, **[-]** button to move down.

**FINE TUNE** sharpens the focus by aligning the illuminated pixels. Select FINE TUNE using the **[+]** or **[-]** button, then press **Menu** button to activate the function. Press **[+]** or **[-]** button until the screen image looks crisp, sharp and focused.

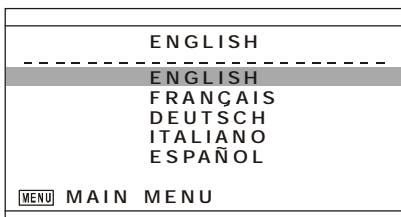
☐ **AUTO-SYNC** automatically centers and sizes the screen image. Select AUTO-SYNC using the **[+]** or **[-]** button, then press **Menu** button to initiate Auto-Sync process.

**Shortcut Auto-Sync:** Press the **Auto** button on the front panel to initiate Auto-Sync process.

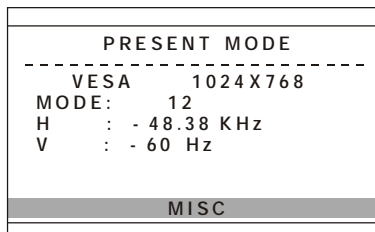
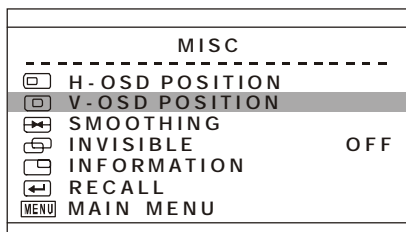
**MAIN MENU** select MAIN MENU using **[+]** or **[-]** button, then press **Menu** button to return to Main Menu.

**LANGUAGE** allows the user(s) to choose the preferred language used in the OSD menu. Under Main Menu, scroll to Language using **[+]** or **[-]** button, then press **Menu** button to activate the function. Press **[+]** or **[-]** button to choose preferred Language, then press **Menu** button to save selection and exit.

## Language Sub-Menu



## MISC (Miscellaneous) Sub-menu



INFORMATION Menu

- Under the Main Menu, select MISC using the **[+]** or **[-]** button, then press **Menu** button to activate the function.
- Under the MISC sub-menu, press **[+]** or **[-]** button to scroll sub-menu.

**H-OSD POSITION** (Horizontal OSD Position) moves the OSD position on the screen right or left. Select H-OSD Position using **[+]** or **[-]** button, then press **Menu** button to activate the function. Press the **[+]** button to move the OSD position to the right, **[-]** button to move left.

**V-OSD POSITION** (Vertical On-Screen Display Position) moves the OSD position on the screen up or down. Select V-OSD Position using **[+]** or **[-]** button, then press **Menu** button to activate the function. Press the **[+]** button to move the OSD position up, **[-]** button to move down.

**SMOOTHING** enhances the displayed text(s) making it easier to read. Select SMOOTHING using **[+]** or **[-]** button, then press **Menu** button to activate the function. Press **[+]** or **[-]** button and adjust to your liking. Press **Menu** button to return to MISC sub-menu.



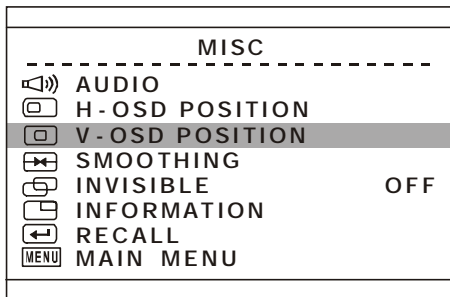
**INVISIBLE** activates the OSD background to be invisible. Select INVISIBLE using the **[+]** or **[-]** button, then press **Menu** button to select either On or Off feature. Press the **[+]** or **[-]** button to return to the MISC sub-menu.

**INFORMATION** displays the timing mode (video signal input) coming from the graphics card in the computer. See your graphics card user guide for instructions on changing both the resolution and refresh rate (vertical frequency). Select Information using the **[+]** or **[-]** button, then press the **[+]**, **[-]** or **Menu** button to view settings.

**RECALL** returns the adjustments back to factory settings if the monitor is not operating at its original factory settings. Select RECALL using the **[+]** or **[-]** button, then press **Menu** button to reset the settings.

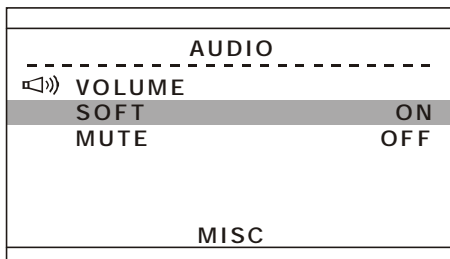
**MAIN MENU** select MAIN MENU using **[+]** or **[-]** button, then press **Menu** button to return to Main Menu.

## MISC MENU (With Audio Option)



(OPTION FOR AUDIO)

## AUDIO MENU (With Audio Option)



(OPTION FOR AUDIO)

**VOLUME** adjusts the volume of the audio output.

Press [-] button to decrease the volume, [+] button to increase the volume.

**SOFT ON/OFF** enhances the sound performance.

Press [-] or [+] button to turn **Off** or **On**.

**MUTE** turns Off the volume output.

Press [-] or [+] button to select **Off** or **On**.

## Hot Keys (With Audio Option)

[-] button: decrease volume.

[+] button: increase volume.

[Auto] button: activates Auto-Sync.

## Specifications

<b>LCD</b>	Type	15.1" (full 15.1" viewable diagonal area) TFT (Thin Film Transistor), Active Matrix Panel
	Pixel Pitch	0.300mm pixel pitch
	Color Filter	Pixel RGB vertical stripe
	Color	16.7M
	Glass surface	Anti-Glare
<b>Maximum Viewing Angles</b>	Left	75°
	Right	75°
	Up	55°
	Down	60°
<b>Input Signal</b>	Video Sync	RGB Analog, H.V. Separate Sync, H.V. Composite Sync (TTL Compatible), Sync on Green, fh: 30-62kHz, fh: 50-75Hz TMDS Digital (100 ohms)
<b>Compatibility</b>	PC	Up to 1024 x 768
	Macintosh®	Power Macintosh® up to 1024 x 768
<b>Resolution</b>		Vesa 1024 x 768 @ 60Hz
<b>Power</b>	Voltage	AC100-240 Vac, 60-50Hz
<b>Connectors</b>	Input Signal	15 pin D-sub & 24 pin DVI-V
<b>Display Area</b>	Full screen	307.2mm (H) x 230.4mm (V) 12.0" (H) x 9.0" (V)
<b>Operating Conditions</b>	Temperature	32 F to 104 F (0 °C to 40 °C)
	Humidity	10% to 90% (non-condensing)
	Altitude	to 10,000 feet
<b>Storage Conditions</b>	Temperature	-4 F to +140 F (-20 °C to +60 °C)
	Humidity	10% to 90% (non-condensing)
	Altitude	to 40,000 feet
<b>Dimensions</b>	Physical	377.5mm(H) x 400.0mm(W) x 158.0mm(D) 14.86" (H) x 15.75"(W) x 6.22"(D)
	Package	480.0mm(H) x 475.0mm(W) x 210.0mm(D) 18.90" (H) x 18.70"(W) x 8.27" (D)
<b>Weight</b>	Net	4.20 kg (9.24 lbs)
	Gross	7.20 kg (15.84 lbs)
<b>Regulations</b>	Safety	UL, cUL, CSA, NRTL, TUV/GS, SEMKO, NEMKO, DEMKO, FIMKO, CB Report
	EMI	FCC DoC, VCCI B, CISPR 22 B
	Low Radiation	MPR 1990:10, TCO'99, PR EN50279
	EMC	CE, TUV/EMC
	Energy Star V.2®	EPA, NUTEK SEMKO Power Down, Energy 2000
	Quality	SEMKO, Ergonomics, ISO 13406-2
<b>Power saving Modes</b>	Environment	TCO'99
	On	36W (green LED) (MAXIMUM)
	Stand By	3W (orange LED)
	Suspend	3W (orange LED)
	Off	3W (orange LED)

- All products and trademarks are brand names of their respective companies.
- Specifications are subject to change without prior notice.

## Factory Preset Timings

Timing	Hor. Freq. (KHZ)	Ver. Freq. (HZ)	Polarity (H/V)
VGA 640 X 350	31.47	70.08	+ / -
VGA 720 X 400	31.47	70.08	- / +
VGA 640 X 400	31.47	70.09	- / +
VESA 640 X 480	31.47	59.94	- / -
VESA 640 X 480	37.86	72.81	- / -
VESA 640 X 480	37.50	75.00	- / -
VESA 640 X 480	35.00	66.67	Composite
VESA 800 X 600	35.16	56.25	+ / +
VESA 800 X 600	37.88	60.32	+ / +
VESA 800 X 600	48.08	72.19	+ / +
VESA 800 X 600	46.86	75.00	+ / +
VESA 832 X 624	49.72	74.54	
VESA 1024 X 768	48.36	60.00	- / -
VESA 1024 X 768	56.48	70.07	- / -
VESA 1024 X 768	58.04	71.92	- / -
VESA 1024 X 768	60.02	75.03	+ / +
VESA 1024 X 768	60.24	74.93	Composite

## Power Management System

This monitor matches VESA® DPMS™ (Display Power Management Standard) Standards. For the monitor's power saving features to work, the video board or computer must also match VESA DPMS standards. The Off state means the monitor is in the lowest DPMS state with the highest power savings.