

Precautions

- Read all of these instructions and save them for later use.
- Follow all warnings and instructions on the product.
- Product
 - Do not cover or block the vent holes in the case.
 - Do not insert sharp objects or spill liquid into the LCD monitor through cabinet slots. They may cause accident fire, electric shock or failure.
 - Disconnect the power plug from the AC outlet if you will not use it for an indefinite period of time.
 - Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks.
 - Do not touch the screen directly with your fingers. You may damage the screen, and oil from your skin is difficult to move.
 - Do not apply pressure to the screen. The LCD is very delicate.
- Power
 - Use the type of power indicated on the marking label.
- Plugs
 - Do not remove any of the prongs of the monitor's three-pronged power plug.
 - Disconnect the power plug from the AC outlet under following conditions:
 - ◆ If you will not use it for an indefinite period time.
 - ◆ When the power cord or plug is damaged or frayed.
 - ◆ If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions. Improper adjustment of

other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

- ◆ If the product has been dropped or the cabinet has been damaged.
 - ◆ If the product exhibits a distinct change in performance, indicating a need for service.
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- Power and extension cords
 - Do not allow anything to rest on the power cord.
 - Do not locate this product where persons will walk on the cord.
 - Use the proper power cord with correct attachment plug type. If the power source is 120V AC, use a power cord that has UL and C-UL approvals. If the power source is a 240V AC supply, use the tandem (T blade) type attachment plug with ground conductor power cord that meets the respective European country's safety regulations, such as VDE for Germany.
 - Do not overload wall outlets or power cords. Ensure that the total of all units plugged into the wall outlet does not exceed 10 amperes.
 - Ensure that the total ampere ratings on all units plugged into the extension cord is not above the cord's rating.
 - If the power supply cord, which came with your monitor, is to be connected to the PC instead of the wall outlet, this equipment is to be used with UL/TÜV approved computers with receptacle rated 240V AC, 2.0A (minimum).
 - Environment
 - Place the monitor on a flat and leveled surface.
 - Place the monitor in a well-ventilated place.
 - Keep the monitor away from:
overly hot, cold or humid places, places directly under sunlight, dusty surroundings, equipment that generate strong magnetic fields.

**Federal Communication Commission
Radio Frequency
International 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 the following measures:

- Reorient / 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice:

The use of non-shielded interface with this equipment is prohibited.

If necessary, the user should consult the dealer or an experienced radio / television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission

helpful. This booklet is available from the U.S. Government Printing Office Washington DC, 20402, Stock No. 004-000-00345-4.

The manufacture is not responsible for any radio or TV interference caused by unauthorized modification of this equipment. It is the responsibility of the user to correct such interference.

Caution: To meet FCC limits for a Class B computing device, a shielded signal cable should be used.

- 1. If you find some parts of the monitor display discolored due to magnetic fields generated by electrical facilities or appliances, turn off the monitor for at least 15 minutes. The degaussing circuit of the monitor will eliminate the discoloration.*
- 2. Do not remove the monitor on its swivel base while the power is on, or it may cause discoloration. If discoloration occurs, follow the above mentioned procedure for adjustment.*

Canadian Department Of Communications Compliance Statement

This equipment does not exceed Class B limits per radio noise emissions for a digital apparatus, set out in the Radio Interference Regulation of the Canadian Department of Communications. Operation in a residential area may cause unacceptable interference to radio and TV reception requiring the owner or operator to take whatever steps necessary to correct the interference.

Product Description

Congratulations on your purchasing this new generation of monitor. Your LCD monitor incorporates high quality display into a small light weighted module. It has power-saving capabilities and emits no X-ray radiation. You will certainly benefit from this monitor in lots of ways; to name some of them, comfort, safety, health, and environmental protection.

This LCD monitor incorporates 15" color active matrix thin-film-transistor (TFT) liquid crystal display to provide superior display performance. A maximum resolution of XGA 1024x768 is ideal for displaying complex graphics and high definition images. Other outstanding designs that enhance this LCD monitor's performance are Plug & Play compatibility, audio system and OSD (On Screen Display) controls.

Package Contents

Included with your LCD monitor are following items:

- 15" TFT liquid crystal monitor
- D-sub 15 pin signal cable
- AC power cable
- User's manual
- Audio cable (optional)
- RS232 cable for touch screen function (optional)
- DFP signal cable for digital input (optional)
- RCA signal cable for video-in function (optional)

Product Features

- High contrast color TFT LCD display support resolution up to XGA 1024x768. Compatible with IBM VGA, VESA, and Macintosh standards.
- Power management system conforms to VESA DPMS standard.
- Embedded universal power system.
- Support DDC1/2B for Plug & Play compatibility.
- Advanced OSD control for picture quality adjustment.
- Detachable stand for wall-mounting application.
- Optional imbedded audio system provides sound performance.
- Optional digital input function
- Optional video-in function
- Optional touch screen function
- Equipped with TCO selection.

Cleaning

- Gently wipe the screen with a clean camel hair lens brush, or a soft, clean, lint-free cloth. This removes dust and other particles that can scratch the screen.
- Do not apply pressure to the screen surface when wiping it clean.
- Do not pour or spray any liquid directly onto the screen or case of the LCD monitor. Chemical cleaners have been reported to damage the screen or case of the LCD monitor.

Taking a Look

Front View

1. **Menu button** Pressing this button pops up and down the OSD menus on the screen.
2. **Sel. button** Pressing this button pops up the Sub-OSD menus on the screen,
3. **– button** This button is used to adjust the decreasing value of the selected OSD control option. Or move down the menu items
4. **+ button** This button is used to adjust the increasing value of the selected OSD control option. Or move up the menu item
5. **Power LED** This LED indicates different status when this unit operates in different modes.
6. **Power Switch** Pressing this button turns the display system power **on** or **off**

Rear View

1. **Power Connector** This is for connecting the power cable.
2. **Signal Connector** This can be connected with the D-sub 15 pin signal connector.
3. **Audio-in** This can be connected to the audio-out connector of the computer (optional)

OSD Control Options

- ***AUTO ADJUST***

Press **YES** or **NO** buttons to make LCD monitor adjust the related parameters automatically for optimal display status.

- ***CONTRAST***

Adjust the contrast using + or – buttons.

- ***BRIGHTNESS***

Adjust the brightness using + and – buttons.

- ***PIXEL CLOCK***

This item is used to decrease the vertical interference.

1. Select one display pattern from your computer.
2. Use + and – buttons on the LCD monitor to decrease the vertical interference to get the optimal display.

- ***PHASE***

This item is used to decrease the horizontal interference.

1. Select one display pattern from your computer.

2. Use + and – buttons on the LCD monitor to decrease the horizontal interference to get the optimal display.

- ***Color Temp***

Select Color temperature function

This monitor has 3 color temperature, User Temp1 (9300K), User Temp2 (6500K), and User Color. You can select desired color temperature to press select key, after that you can adjust value to pressing + or – button.

- ***H-POSITION (HORIZONTAL POSITION)***

Pressing + moves the display image to the right; pressing – moves the display image to the left.

- ***V-POSITION (VERTICAL POSITION)***

Pressing + moves the display image upward; pressing – moves the display image downward.

- ***RESET***

Press + or – buttons to recall previous preset values.

- ***OSD H-POS***

Adjust the OSD icon horizontal position using + and – buttons.

- ***OSD V-POS***

Adjust the OSD icon vertical position using + and – buttons.

- ***LANGUAGE***

This item is used to select OSD language. There are 5 languages for OSD control: English, French, German, Spanish, and Italian.

- **AUDIO**

This item controls audio volume (* This is optional function)

Power LED Display & Power Saving

General Power Saving Mode

This monitor is equipped with a function for saving of energy, which supports the VESA Display Power Management Signal (DPMS) standard. This means that the monitor must be connected to a computer, which supports VESA DPMS to fulfill the requirements in the NUTEK specification 80329994/96. Time settings are adjusted from the system unit by software. From indicated inactivity to Power Saving Position “Off” the total time must not be set to more than 70 minutes.

Mode	Power LED Color	Power Consumption
On	Green	27W max.
Off	Orange	<5W

Troubleshooting

The monitor does not respond after you turn on the system.

- Check if the **Power Switch** of monitor is turned **on**.
- Turn off the power and check the monitor’s power cord and signal cable for proper connection.

The characters on the screen are dim.

- Refer to the *Controls and Adjustments* section to adjust the brightness.

The screen is blank.

- During operation, the monitor screen may automatically turn off as a result of Power Saving feature. Press any key to see if the screen comes back.
- Refer to the *Controls and Adjustments* section to adjust the brightness.

The screen flashes when it’s initialized.

- Turn off the monitor and turn it on again.

Display Modes

Item	Resolution	Type	H. Scan (KHz)	V. Scan (Hz)	Pol.	Pixel (MHz)
1	640X350	VGA	31.469	70.087	+ / -	25.175
2	720X400	VGA	31.469	70.087	- / +	28.322
3	640X480	VGA	31.469	59.940	- / -	25.175
4	640X480	VESA72	37.861	72.809	- / -	31.500
5	640X480	VESA75	37.500	75.000	- / -	31.500
6	640x480	MAC	35.000	66.667	- / -	30.240
7	800X600	SVGA	35.156	56.250	+ / +	36.000
8	800X600	SVGA	37.879	60.317	+ / +	40.000
9	800X600	VESA72	48.077	72.188	+ / +	50.000
10	800X600	VESA75	46.875	75.000	+ / +	49.500
11	832X624	MAC	49.722	74.546	- / -	57.280
12	1024X768	VESA60	48.363	60.004	- / -	65.000
13	1024X768	VESA70	56.476	70.069	- / -	75.000
14	1024X768	VESA75	60.023	75.029	+ / +	78.750

Specifications

<i>Model</i>		VT-150X
<i>LCD Display</i>		15.0" TFT Active Matrix Panel
<i>Display Size</i>		304(H) x 228(V) mm
<i>Pixel Pitch</i>		0.297(H) x 0.297(V) mm
<i>Display Mode</i>		VGA 640 x 350 (70 Hz) VGA 720 x 400 (70 Hz) VGA 640 x 480 (60/72/75 Hz) SVGA 800 x 600 (56/60/72/75 Hz) XGA 1024 x 768 (60/70/75 Hz) Mac. 832 x 624 (75 Hz)
<i>Max. Resolution</i>		XGA 1024 x 768
<i>Contrast Ratio</i>		200 : 1 (min.)
<i>Brightness</i>		200 Cd/m ² (min.)
<i>Response Time</i>		30 ms (min.) / 80 ms (max.)
<i>Display Color</i>		16M
<i>Viewing Angle</i>	<i>L/R</i>	+50° ~ -50° (typical)
	<i>U/D</i>	+50° ~ -45° (typical)
<i>Input Signal</i>	<i>Video</i>	R.G.B. Analog 0.7V _{peak-peak}
	<i>Sync</i>	TTL Positive or Negative
<i>Signal Connector</i>		15 Pin Mini D-Sub
<i>Front Control</i>		Power Switch, Menu/Select , Adjust (+, -)
<i>OSD</i>		Contrast, Brightness, Pixel Clock, Phase, 720/640 select H-Position, V-Position, Reset, Auto Adjust, Volume control (option), OSD H-POS/V-POS, Language, Color Temperature
<i>Plug & Play</i>		DDC1 / 2B
<i>Audio System (optional)</i>		1W / Per Channel

<i>Touch Panel (optional)</i>		Resistive / Capacitive Type with RS232 connector
<i>Video-in (optional)</i>		RCA / S connectors
<i>Power</i>		DC12V, 3.3A, Universal 100 ~ 240 V
<i>Operating Conditions</i>	<i>Temperature</i>	5°C ~ 35°C (41°F ~ 95°F)
	<i>Humidity</i>	20% ~ 80% (No Condensation)
	<i>Altitude</i>	To 10,000 Feet
<i>Storage Conditions</i>	<i>Temperature</i>	-20°C ~ 60°C (-4°F ~ 140°F)
	<i>Humidity</i>	10% ~ 90% (No Condensation)
<i>Dimensions (HxWxD)</i>		383 x 363 x 165 mm
<i>Weight (Net)</i>		5.3 Kg
<i>Certifications</i>		C-UL, FCC-B, CE, ,
		TCO (Optional)

* This specifications are subject to change without notice

WARNING Do not disassemble the monitor. Contact your dealer if needed.