

EUT:MONITOR

FCC ID:NPU17CX

ARIESTEC, INC.

USER'S MANUAL

FEDERAL COMMUNICATIONS COMMISSION

NOTE

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. 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.

Shielded interface (except power cord) cables must be used in order to comply with emission limits.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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1 INTRODUCTION

Congratulations on the purchase of your new 15"/17" ComfortView Monitor. Your new Monitor features the latest advances in personal computing technology. Its state of the art design combines ergonomics with high performance circuitry to provide a monitor with unequalled viewing quality and that is easy-to-use.

The ComfortView Monitor is Plug & Play compliant and when attached to a Plug and Play supported video adapter, the ComfortView monitor is automatically detected by your system. The monitor supports 7 primary and 5 secondary factory preset viewing modes and up to 16 user defined modes giving greater flexibility and control over viewing conditions. The unit also features OSD (On Screen Display) which allows you to adjust the screen parameters to your viewing comfort. Upon exiting the OSD, the display changes are automatically saved to memory. Other ergonomic features include a non- glare screen and tilt & swivel adjustment.

The ComfortView Monitor complies with NBPRII radiation emission, EPA power saving and VESA Display Power Management Signaling (DPMS) specifications. With the built-in power management features, the monitor can automatically reduce power consumption to less than 15 watts when the system is in the suspend mode. In the off mode, the monitor's power consumption drops to less than 5 watts.

Plug & Play

This monitor complies with the DDC1 and DDC2B (Display Data Channel) specifications. These standards, set by the VESA (Video Electronics Standards Association), specify how a monitor must communicate with the video adapter to transfer preset information such as resolutions and refresh rates. Once received, the information is then matched with the video adapter's supported resolutions and refreshes rates. This matching allows the monitor to run at the best refresh rate possible for the selected resolution.

As described above, both the monitor and video adapter must adhere to the DDC scheme for Plug & Play to be supported.

Unpacking

Please make sure the following items are in the shipping package and found in good condition:

- 15"/17" ComfortView Monitor
- Tilt and swivel stand
- Power cord
- Signal Cable(17" only)
- This manual

2 INSTALLATION

Connecting the Monitor and Stand

- Align the stand's four tabs with the slots on the bottom of the monitor.
- Insert the tabs into the slots.
- Slide the stand towards the front of the monitor and secure.

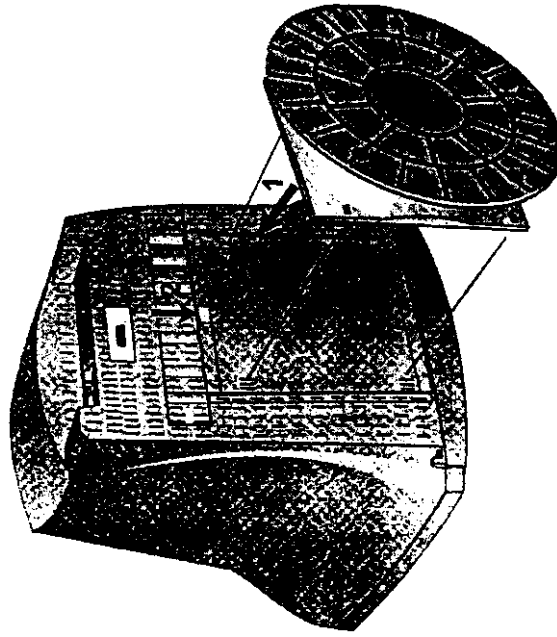


Figure 1: Monitor and Stand Connection

Choosing A Workstation

When choosing an appropriate workspace, keep these few things in mind :

- A sturdy, level surface.
- An electrical wall outlet and a telephone wall jack near the computer.
- At least 3-inch clearance at the back of the computer to allow for the required airflow.
- Do not place near a window. Exposing the Monitor to direct sunlight for extended periods may damage the unit.
- You may want to use a desk lamp to adjust the ambient lighting for your viewing comfort.
- A viewing filter is recommended to reduce eye stress and fatigue.

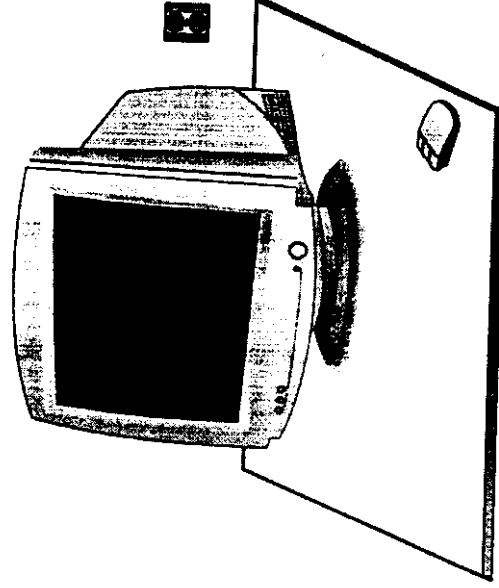


Figure 2: The Workstation

The Signal Cable Connection

- Locate the ON/OFF power switch. It is located on the right of the Monitor's front panel.
- Make sure that the Monitor's power switch is in the OFF position. When in the OFF position, the switch should be in its outer most position.
- Locate the VGA port on the rear of the PC. The signal cable has a standard 15-pin mini D-sub (VGA) connector. If you are having trouble locating the VGA port, please refer to the documentation, which came with your PC.
- Connect the Signal cable to the PC's VGA port.

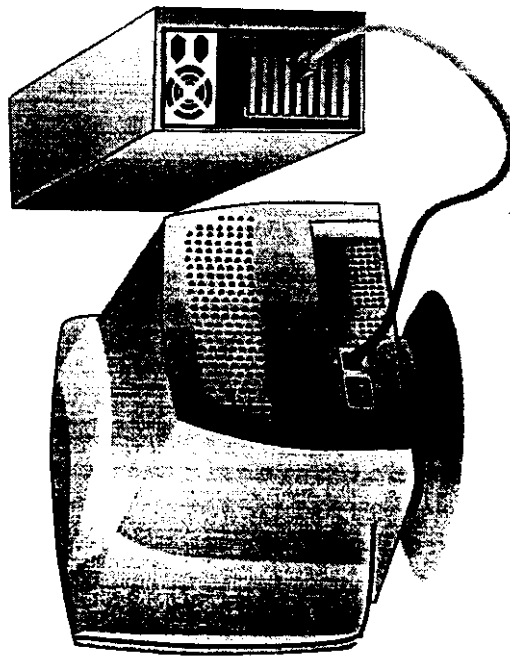


Figure 3 : Connecting the Signal Cable

The AC Connection

- Ensure that both the PC and Monitor are powered OFF. When in the OFF position, the Monitor power switch will be in its outer most position.
- Locate the AC port on the rear of the monitor.
- Plug the female end of the AC cord into the AC port.
- Plug the male end into the PC power supply.

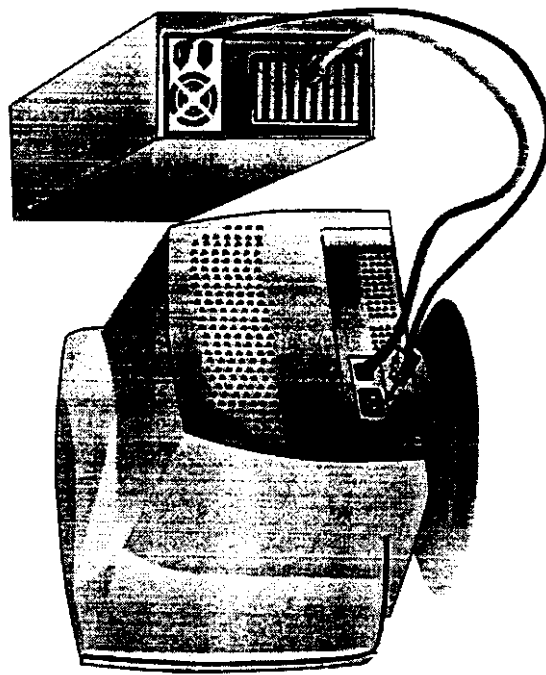


Figure 4 : Connecting the Power Cord

3 OPERATION

Tilt & Swivel Adjustments

The monitor is capable of both tilt and swivel adjustments.

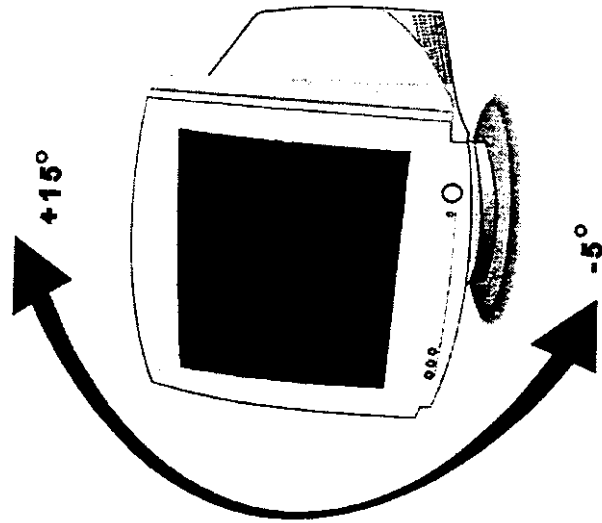


Figure 5 : Tilt Adjustment

- With the tilt feature, the monitor is capable of vertical adjustments of +15° to -5°.
- The swivel feature allows for horizontal monitor adjustments of +60° to -60°.

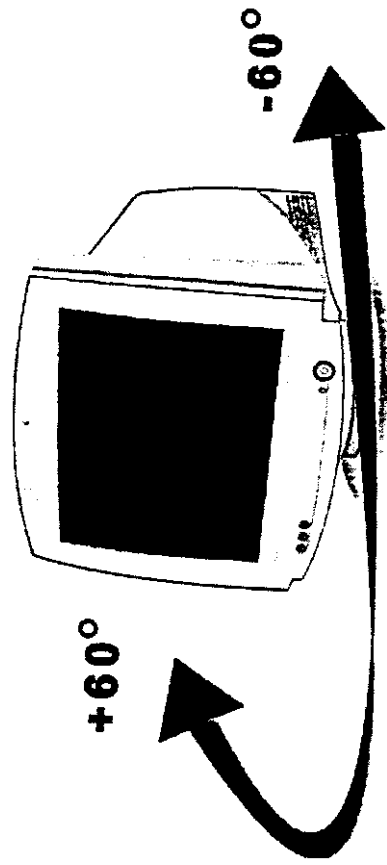


Figure 6 : Swivel Adjustment

Power Controls

The power controls are located on the right side of the monitor's front panel.

Power Switch ①

When the power switch is in its outer most position, it is in the OFF position. Likewise, when the power switch is in its inner most position it is in the ON position.

Power LED ②

The power LED is located just to the left of the power switch. Three different colors are used to indicate the monitor's power saving status.

- Yellow indicates the Monitor is in the ON mode.
- Amber indicates the Monitor is in the Suspend mode.
- Dark indicates the Monitor is in the OFF mode.

On-Screen Display Controls

The monitor features an intuitive, on-screen display, making adjustments to display settings simple. Using three OSD (on-screen display) control buttons the user can activate OSD, select display fields, adjust the value of the selected display field controls follows. *Figure 7* depicts the three function controls as shown on the front panel of the monitor.



Figure 7 : OSD Control

function



You may display the OSD menu by using the function keys. You may adjust specific items after selecting them.

Click one of the three OSD control buttons to activate OSD.

After OSD is activated, click the function key, the settings at the bottom of the screen will turn from white to red. Click again will make it back to white.

For more information about display screen settings, please see the icons descriptions in Chapter 4.

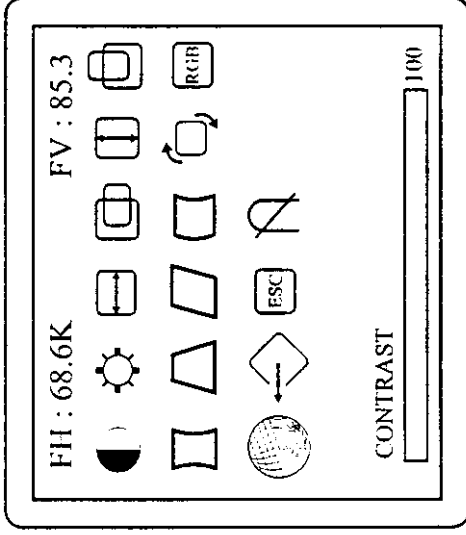


Figure 8 : On-Screen-Display

You can use   key to move the highlighted icon. After you have moved the highlighted icon to the position.

Note! A scale appears below of the on-screen-display. This scale allows you to see where, within the display range, the display fields are set.

Turning off OSD

Once all your settings have been made, the OSD will automatically turn off after 10 seconds of inactivity. To manually turn off the OSD, simply select the OSD exit option and press  button.

Manually Degaussing the Monitor (17")

The Monitor supports a manual degaussing option. The option is provided to correct display abnormalities, such as screen discoloration, caused by electromagnetic interference from electrical facilities and appliances. To manually degauss the screen, do the following:

- Select the OSD degauss option.
- Press  button.

4 ICON DESCRIPTIONS

Controls	Icon	Function
Contrast		This field allows you to adjust the display contrast level to accommodate the ambient lighting conditions of your working environment.
Brightness		This field allows you to fine-tune the display brightness level.
4-Size		This field allows you to stretch or squeeze the display area horizontally.
4-Position		This field allows you to adjust the display to the right or to the left.
4-Size		This field allows you to stretch or squeeze the display area vertically.
4-Position		This field allows you to adjust the display up or down on the screen.
Incursion		This field allows you to alter the image geometry of the display area to prevent the image from curving either inwardly or outwardly.
Trapezoid		This field allows you to stretch or squeeze the top or bottom of the display.
Parallelogram		This control adjusts for a skewing of the screen image.
In Balance		This control adjusts for unevenness between the Right and Left of the screen image.

Rotation		This control adjusts the tilt of the screen image relative to a horizontal line.
Color		This control selects the different color temperature (user, 6500° K, 9300° K) of the screen image.
Language (English · Deutsch · Français · Italiano · Español)		This control allows the user to choose the language in which the control names are displayed.
Recall		This control recalls certain factory settings such as size, position, geometry and color. If the monitor is operation in a user mode, this control has no effect.
Esc		This control turns off the OSD menu. If does not use the OSD, it will be disappeared automatically in 10 seconds.
Manual Degaussing		This option allows you to manually degauss the display. Refer to manually degaussing the monitor in chapter 3 for more information.

TECHNICAL SPECIFICATIONS

Specifications

Model	Pack
Screen	17" CRT
Dot Pitch (mm)	0.27 or 0.28
Surface	Non-glare
Display Size	15.9"
Scanning Frequency	
Horizontal (KHz)	31.5-69
Vertical (Hz)	60-85
Max. Resolution	1024X768
Band Width	110MHz
Compatibility	IBM, VGA, SVGA, 8514A, and VESA
Plug & Play	DDC1 & DDC2B
Display Colors	Unlimited
Signal Cable	Captive 15 pin, mini D-sub
Power	
Consumption	90W
Supply	100-250V AC 50/60Hz
Power Management	Complies with EPA & VESA DPMS

Model	Pack
On Screen Display	yes
Digital Controls	
Brightness	yes
Contrast	yes
H/V Size	yes
H/V Center	yes
Pincushion	yes
Fill	yes
Trapezoid	yes
Degaussing	yes
R/G Gain	yes
Display Mode	
Preset	7
User	16
Low Radiation	NPR II
TCO95	Option
Operating Management	
Temperature	5-45° C
Relative Humidity	10-90% non-condensing
Dimension	390(L) x 370(W) x 473mm(H) 15.67(L) x 14.87(W) x 14.9(H)
Weight	12.5Kg (27.5lbs) 18Kg (39.6lbs)

Mode	F. Horizontal	F. Vertical
IBM VGA 640x 400	31.5KHz	70.1Hz
VESA 640x 480	31.5KHz	59.9Hz
VESA 800x 600	48.0KHz	76.2Hz
VESA 800x 600	53.5KHz	85.0Hz
VESA 1024x 768	56.5KHz	70.1Hz
VESA 1024x 768	68.7KHz	85.0Hz

6 TROUBLE SHOOTING

This section will try to anticipate potential problems that you may encounter in the day-to-day use of your monitor. Included in this section is information, which should help solve these problems for you. If after trying the suggested solutions, your monitor still does not function properly, please contact your authorized service center.

Power

- Symptom:** The monitor is switched on, but the power LED is not lit.
- Solution:** Switch the monitor off. Then check to make sure that the power cord are properly connected. If the monitor is plugged into a powered extension cord or a surge protector, make sure that extension cord or the surge protector is turned on.

Display

- Symptom:** The display image is either not centered, too small, or too large.
- Solution:** Adjust the size and position controls.
- Symptom:** The display image is either dangling or unstable.
- Solution:** Make sure that the signal cable's D-shaped connector is properly connected to the video adapter port on the back of the PC.
- Symptom:** The picture is bouncing or a wave pattern is present in the display.
- Solution:** Move any electrical devices away from the monitor, which may cause display interference. Please refer to the FCC statement at the beginning of the manual for more details on display interference.
- Symptom:** Some sections of the display are discolored.
- Solution:** This may be due to electro-magnetic interference. Try to manually degauss the monitor. If this does not work, turn Off the monitor for 15 minutes. If the problem persists, call your authorized service center.

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FCC ID:NPU17CX

Re: About the modification of MONITOR

Gentlemen:

I, hereby, declare that all modification on the E.U.T.,
FCC ID: NPU17CX, will be added or layout on the mass production
products. Modifications are shown as below:

1. A ferrite core is added on the R.G.B. data cable.
(As the photo No.10)
2. A ferrite core is added on the DC/AC grounding cable.
(As the photo No.8)
3. A ferrite core is added on the CN600 cable.
(As the photo No.8)
4. A ferrite core is added on the grounding cable of CRT.
(As the photo No.8)
5. A ferrite core is added on the CN603 cable.
(As the photo No.9)
6. A ferrite core is added on the FBT cable of G2 and Focus.
(As the photo No.8)
7. A grounding cable is added on the iron case of CRT board.
(As the photo No.6)
8. Two grounding cable are added on the iron case of CRT board.
(As the photo No.6)
9. A capacitor is added on the pin of D521.
(As the photo No.15)
10. A capacitor is added on the pin of IC100.
(As the photo No.15)
11. Two ferrite cores are added on the VGA data cable.
(As the photo No.2)

Sincerely yours



Frank Lin
Superrisor

