FCC ID:NPU14CX

EUT:MONITOR

ARIESTEC INC.

USER'S MANUAL

# CONTENT

# 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 radiated 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 o 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 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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# Important Safety Instruction

Please read the following instructions carefully. This manual should be retained for future use.

1. Unplug the monitor from its power source before cleaning it. Do not spray liquid cleaners directly onto the unit. Stand away from the monitor and spray the cleaning solution onto a rag. Then clean the monitor with the slightly dampened rag.

2. Do not place your monitor near a window. Exposing the monitor to rain, water, moisture or sunlight can severely damage it.

3. The openings located on the monitor case are the needed ventilation slots. To protect the monitor from overheating, do not block these openings. For the same reason, this unit should not be placed near or over sources of heat. The unit should never be placed in a built-in installation unless adequate ventilation is provided.

4. This product is equipped with a three-prong grounding-style plug. It should only be inserted into a grounding-style power outlet. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug by bending the rounded grounding pin back and jamming it into a two-prong socket.

5. If you are using an extension cord with the monitor, make sure that the combined ampere ratings of all the products plugged into the extension cord do not exceed the extension cord maximum ampere rating. Also make sure that the total of all the products plugged into the wall outlet do not exceed 15 amperes.

6. Do not lay anything on top of the power cord. Furthermore, make sure the power cord is placed in an area where it will not be stepped on.

7. Do not push any object into the monitor's cabinet openings. They may come in contact with the monitor voltage points and short out parts which may cause a fire or give off electric shocks.

8. Do not remove the cover or attempt to service this unit by yourself. You may void your warranty. Servicing of any nature should be performed only by an authorized technician.

9. If any of the following occur, immediately unplug your monitor and call an authorized technician.

    - The power cord or plug is frayed or damaged.

    - Liquid has been spilled into the monitor, or it has been exposed to rain.

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- The monitor has been dropped or the case has been damaged.

10. Power source:

  - For 120V operation, use only a power cord which has a parallel blade grounding-type plug, rated 125V/6A min.

  - For 240V operation, use only a power cord which has a tandem blade grounding-type, rated 250V/6A min.

  - The unit uses a power cord with a female connector complying IEC320, rated 125V/6A min for North America, rated 250V/6A min. for the European area.

11. Power inlet is the main disconnected device.

## General Information

This monitor is a fully microprocessor controlled autoscan color display monitor. With its high resolution and multi frequency range, it can be driven by both standard graphic adapters and/or specially designed graphic cards.

In order to ensure proper usage, please thoroughly read the contents of this manual.

## Precautions

1. This monitor should only be employed in operation with the type of power source specified on the marking label.

2. Keep this monitor in a safe, well-ventilated area.

3. If any liquid or solid object accidentally falls into the cabinet, unplug the monitor and have it checked by qualified personnel before operating it further.

4. Do not under any circumstances open the cover. There are no user-serviceable parts contained inside.

## Installation

1. One video cable with 15-pin D-shell connectors, one power cord, and one user manual are all provided with this monitor.

2. Connect the 15-pin video signal cable to the appropriate sockets on the PC, and lock attached screws to ensure the proper connection between monitor and PC system.

3. Changing the Screen's Viewing Angle:

   The monitor can be rotated in order to change the screen     viewing angle and accommodate different seating position, eyesight ranges, etc.

4. When turning the unit on the power LED indicator illuminates, and the monitor simultaneously auto detects the frequency of the input video signal.

5. Power indicator is green for monitor is in normal operation mode, and is orange in powersaving mode.

6. Disconnecting the 15-pin video signal cable, and  turning the unit on, the monitor will be in self test mode, and display test screen.

# Theory Of Operation

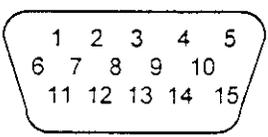User can adjust "SCREEN" performance as below:

Press Simultaneously:

$$(\triangle)+(\nabla) : \text{Recall Factory Setting}$$

# LED function and description

| LED Indicator | Display Feature | Descriptions | |
|---|---|---|---|
| ◖ | Contrast | ($\triangle$) Stronger | ($\nabla$) Weaker |
| ☼ | Brightness | ($\triangle$) Brighter | ($\nabla$) Darker |
| ⊡ | Vertical Size | ($\triangle$) Bigger | ($\nabla$) Smaller |
| ⊝ | Vertical Position | ($\triangle$) Move Up | ($\nabla$) Move Down |
| ⊜ | Horizontal Size | ($\triangle$) Wider | ($\nabla$) Narrower |
| ⊂⊃ | Horizontal Phase | ($\triangle$) Shift To Right | ($\nabla$) Shift To Left |
| ▢ | Pin Qushion | ($\triangle$) Outward | ($\nabla$) Inward |
| ▱ | Trapezoid | ($\triangle$) Top Adj. | ($\nabla$) Bottom Adj. |

# Operation Keys Functions and Descriptions

| Keystroke | Function | Descriptions |
|---|---|---|
| F | | 1. To select the display feature and adjust the feature which has selected. Indicated by a lit LED.<br>2. Continuing to press this key until the appropriate display feature has been selected and indicated by a lit LED. |
| △ | | 1. To adjust the display feature as specified in Section A.<br>2. Press and hold, and the function will be automatically repeated.<br>3. The LED will blink for the screen reach the maximum. |
| ▽ | | 1. To adjust the display feature as specified in Section A.<br>2. Press and hold, and then the function will be automatically repeated.<br>3. The LED will blink for the screen reach the minimum. |
| ✓ | Store Setting | 1. The unit will automatically store the screen parameter that you have adjusted.<br>2. Next time, when the unit power up with the frequency range adapter board hook-on, it will show the same characteristics as previously stored. |
| △<br><br>▽ | Recall Factory Setting | Pressing these two keys simultaneously will recall the factory preset screen parameter from the memory to the screen. |

# Specifications

| Feature | 14cx/cp/c | 15ca/c |
|---|---|---|
| | Descriptions | Descriptions |
| Size | 14" color screen | 15" color screen |
| Dot pitch | 0.28mm/0.39mm | 0.28mm |
| Deflection angle | 90 degrees | 90 degrees |
| Phosphor | P22 | P22 |
| Face treatment | Dark glass with Non-glare treatment | Dark glass |
| Deflection Characteristics<br>Horizontal frequency<br>Vertical frequency | 31.5 - 54KHz Continuous<br>60 - 85Hz Continuous | |
| Video Response<br>Bandwidth Resolution<br>Connectivity | 55MHz<br>640x350, 640x400, 640x480, 800x600, 1024x768<br>8514A, Super VGA & Various<br>Graphic Adapters with deflection characteristics specified above | |
| Power<br>Consumption<br>Supply<br>Power Management | 80W<br>100-250V AC 50/60Hz<br>Complies with EPA & VESADPMS | 85W<br>100-250V AC 50/60Hz<br>Complies with EPA & VESADPMS |
| Input Signal<br>Singal type<br>Video signal level<br>H-drive signal level<br>V-drive signal level | Analog<br>0.7 +/- 0.05 Vp-p<br>5 Vp-p TTL signal negative / positive<br>5 Vp-p TTL signal negative / positive | |
| Display format<br>Display area<br>Linearity<br>Geometry distortion | 255 x 190mm +/- 3mm<br>Less than 10%<br>Less than 2mm. | 260 x 195mm +/- 3mm<br>Less than 10%<br>Less than 2mm |
| External Controls<br>Control<br>Control Signal | Full micro-processor control<br>Contrast, Brightness, V-size, V-position<br>H-size, H-phase, and Pincushion, Trapezoid<br>Controls on the control panel | |
| Video cable | Cable with 15-pin D-shell connector | |
| Pin Assignment | 1 2 3 4 5<br>6 7 8 9 10<br>11 12 13 14 15 | Pin 1:R   Pin 8:Gnd<br>Pin 2:G   Pin 10:Gnd<br>Pin 3:B   Pin 11:Gnd<br>Pin 4:Gnd   Pin 12:SDA<br>Pin 6:Gnd   Pin 13:H-SYNC<br>Pin 7:Gnd   Pin 14:V-SYNC<br>Pin 15:SCL |
| Unit dimension | 375x366x390mm (HxWxD) | 392x370x375mm (HxWxD) |