# INTRODUCTION

Congratulation on your purchase of ProVista E55 (VD-697E)/ MicroScan P50 (VD-697) color monitor! This monitor incorporates DDC (Display Data Channel) technology to be Plug and Play compliant. ProVista E55/MicroScan P40 offers a maximum resolution of 1280 x 1024 at 60Hz and is a high-contrast color monitor that addresses and satisfies the needs of business, desktop publishing and CAD/CAM users. The DDC is a standard set by VESA™ (Video Electronics Standards Association) which allows the monitor to automatically adjust to its optimum performance when information stored in the monitor is sent to the graphics controller.

## Features

- 17- inch (16-inch viewable image) microprocessor- based display.
- Plug and Play functionality automatically adjusts the monitor to its optimum performance.
- The VESA DPMS-compliant power-saving feature automatically powers down the monitor after a user-defined period of inactivity.
- All parameters in each of the display modes reside in the microprocessor-based control system. Settings are built in for existing VGA standards, 800 x 600, 1024 x 768, and 1280 x 1024 modes.
- EasyScreen™ allows on-screen easy adjustment of Horizontal Size/Position, Vertical Size/Position, Pincushion, Trapezoid, Tilt, Color Adjustment, Language, Power Saver, Display Mode, and Factory Reset.

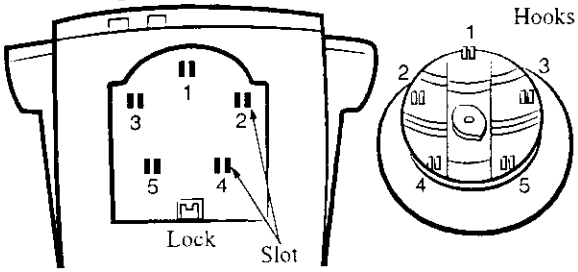
## Unpacking

Check that four items are present and in good condition:

1. ProVista E55/MicroScan P40 Color Monitor (with Video Signal Cable)
2. Assembly Base (Only available in MicroScan P40; In ProVista E55, the base is installed already.)
3. Power Cord
4. Audio Cable (Stereo type)
5. This User Manual

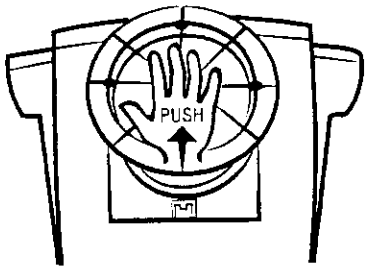
# GETTING STARTED

## Installing and Removing the Assembly Base



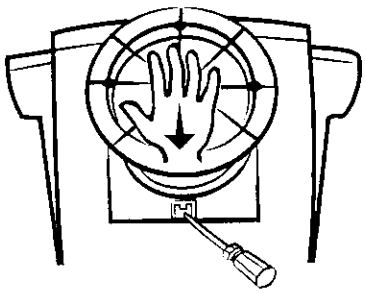

Put the labeled hooks onto the corresponding slots on the bottom of the monitor.

### Installation




Push down and forward the base in the direction of the arrow.

### Removing



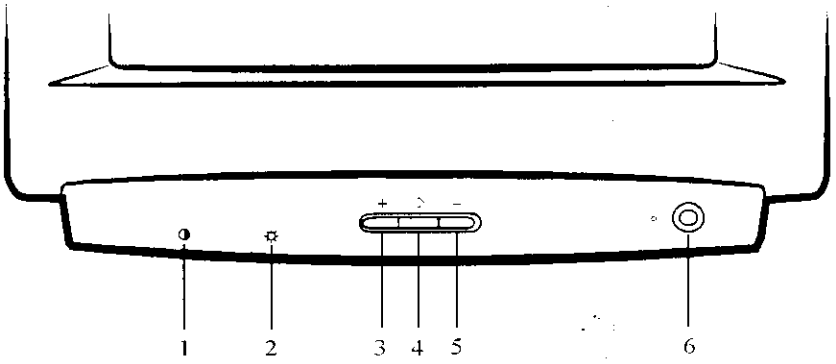
Press down the lock with a screwdriver and remove the base in the direction of the arrow.

## Connecting your monitor

1. Turn off the power of your computer and other devices.
2. Connect the video signal cable of the monitor to the 15-pin connector of the video port in your computer.
3. With the monitor switched off, attach the power cord to the monitor and then to a grounded power outlet.
4. Connect the audio cable one end to the rear of your monitor and the other end to the back of your computer.
5. Turn on the monitor and computer.
6. If necessary, adjust the front panel controls accordingly to your personal preference.

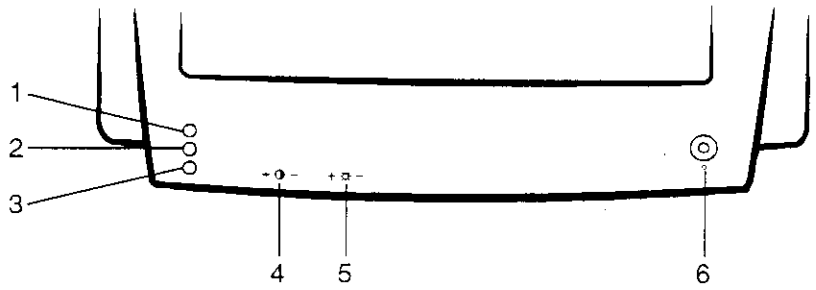
# LOCATION OF CONTROLS

## ProVista E55 (VD-697E)




| | | | |
|---|---|---|---|
| 1 | **Contrast** | ◑ | Adjust the image brightness in relation to the background. |
| 2 | **Brightness** | ☼ | Adjust the overall image and background brightness level. |
| 3 | **Increase** | + | Scrolls up and increase the value of a parameter in EasyScreen™. |
| 4 | **Function** | ◇ | Displays EasyScreen™ on-screen display. |
| 5 | **Decrease** | - | Scrolls down and decrease the value of a parameter in EasyScreen™. |
| 6 | **Power** | ⏻ | Turns the monitor On/ OFF. The green light or no light signals ON or OFF respectively. |

## MicroScan P50 (VD-697)




| | | | |
|---|---|---|---|
| 1 | **Increase** | + | Scrolls up and increase the value of a parameter in EasyScreen™. |
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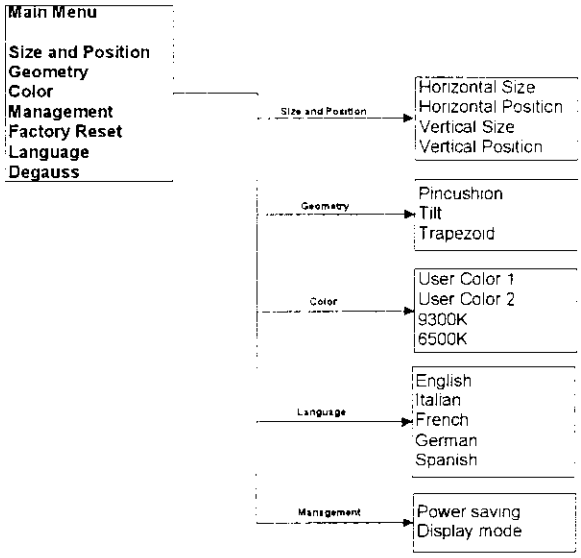
| 4 | **Contrast** | ◑ | Adjust the image brightness in relation to the background. |
| 5 | **Brightness** | ☼ | Adjust the overall image and background brightness level. |
| 6 | **Power** | ⏻ | Turns the monitor On/ OFF. The green light or no light signals ON or OFF respectively. |

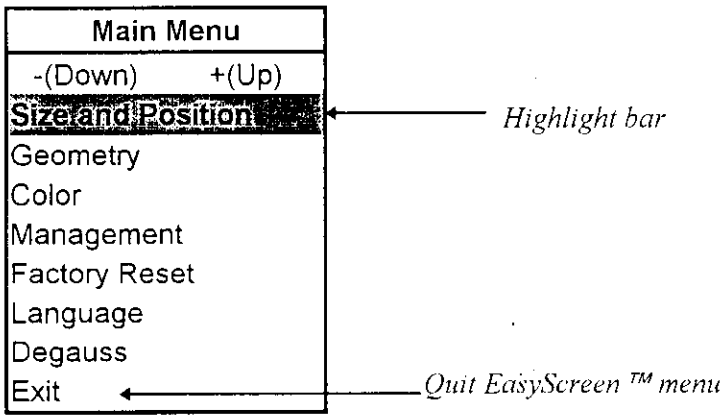
## Quick glance




# EASYSCREEN™ ADJUSTMENT CONTROLS

Step 1: Press <Function> key on the front panel to show the Main Menu.

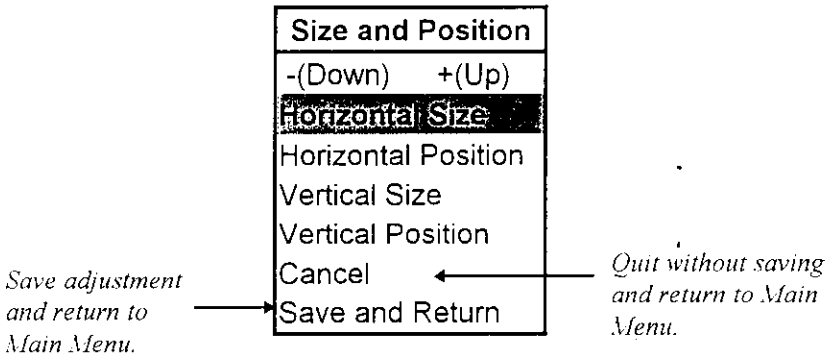
Step 2: Press <+> or <-> key to scroll up or down the Main Menu and then press <Function> key to enter into the secondary menu.



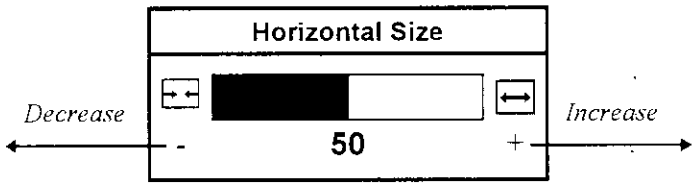
## Size and Position

Step 1: Use <+> or <-> key to scroll up or down.

Step 2: Press <Function> key to select a parameter in Size and Position menu.




**Second level menu:**

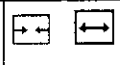
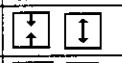



Step 1: Use <+> or <-> key to adjust parameter.

Step 2: Press <Function> key to save the adjustment and return to the Size and Position menu.

Step 3: If any adjustment of a parameter is made, the light bar will automatically pop on Save and Return once you get out of the second menu of Size and Position. Press <Function> key to confirm the changes.

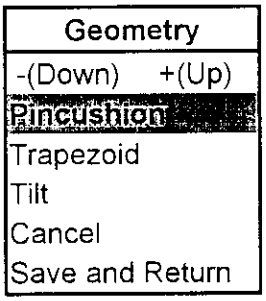
If no adjustment is made, the highlight bar will lay on Cancel.

| Functions | - | + | Description |
|---|---|---|---|
| **Horizontal Size:** |  | | Increases or decreases the screen size horizontally. |
| **Horizontal Position:** |  | | Moves the screen position left or right. |
| **Vertical Size:** |  | | Increases or decreases the screen size vertically. |
| **Vertical Position:** |  | | Moves the screen position up or down. |

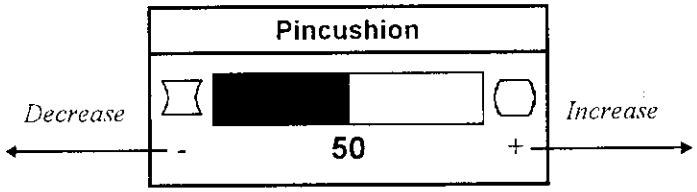
## Geometry

Step 1: Use <+> or <-> key to scroll up or down.

Step 2: Press <Function> key to select a parameter in Geometry menu.




**Second level menu:**

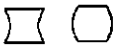
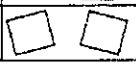



Step 1: Use <+> or <-> key to adjust parameter.

Step **2**: Press <Function> key to save the adjustment and return to the Geometry menu.

Step 3: If any adjustment of a parameter is made, the light bar will automatically show on Save and Return once you get out of second menu of Geometry menu. Press <Function> key to confirm the changes.

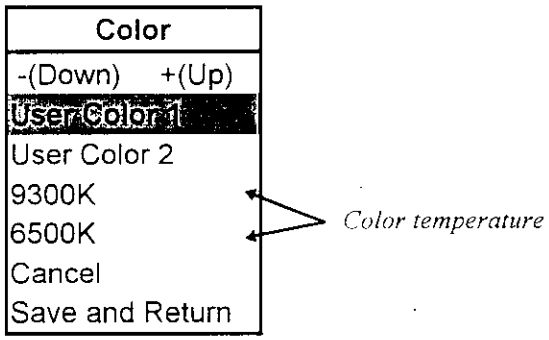
If no adjustment is made, the light bar will lay on Cancel.

| Functions | - | + | Description |
|---|---|---|---|
| **Pincushion:** |  | | Curves left and right sides of the screen inward or outward. |
| **Trapezoid:** |  | | Minimizes trapezoid distortion of the screen. |
| **Tilt:** |  | | Rotates image clockwise or counter clockwise. |

## Color

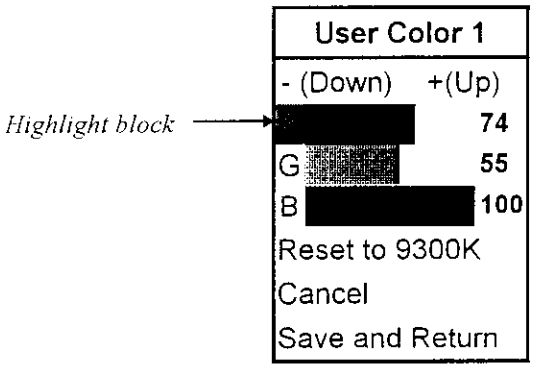
Step **1**: Use <+> or <-> key to scroll up or down.

Step **2**: Press <Function> key to select a parameter in Color menu.



| Functions | Description |
|---|---|
| User Color 1 | Adjusts parameters for the colors Red, Green and Blue |
| User Color 2 | Adjusts parameters for the colors Red, Green and Blue |
| 9300K | Preset color mode 1 |
| 6500K | Preset color mode 2 |

**Second level menu:**




The highlight block will lay on R once you get into User Color 1/2 menu.

Step 1: Use <+> or <-> key to scroll up and down the menu.

Step 2: Press <Function> key to select between R/G/B parameter.

You may select Reset to 9300K as well if you prefer preset color temperature.

Step 3: Once you see R/G/B block in blinking, use <+> or <-> key to adjust parameter.

Step 4: Press <Function> key to finish the parameter adjustment.

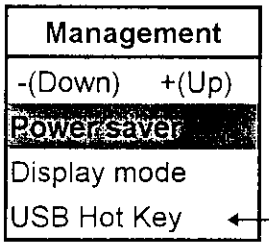
Step 5: Once you finish adjustments, scroll the highlight bar to Save and Return to save and return to Color menu.

Select Cancel will quit User Color 1/2 without saving adjustments.

## Management

Step 1: Use <+> or <-> key to scroll up or down.

Step 2: Press <Function> key to enter different functions as indicated below:




*USB OSD software is an optional accessory; only available in purchase of USB hub base.*

**Second level menu:**

**Power Saver:** Activates or deactivates Display Power Management System (DPMS).


Step 1: Use <+> or <-> key to select On/Off.

Step 2: Press <Function> key to return to the Management menu.

**Display Mode:** Activates or deactivates on-screen display of Preset Mode or User Mode by mode change.


Step 1: Use <+> or <-> key to select On/Off.

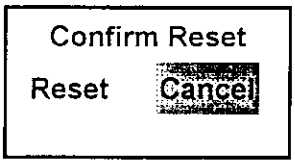
Step 2: Press <Function> key to return to the Management menu.

## Factory Reset

Factory Reset is to reset the on-screen parameters to its factory settings. The default is Cancel.

Step **1**: Use <+> or <-> key to select between Reset/Cancel.

Step **2**: Press <Function> key to reset/cancel and return to the main menu.

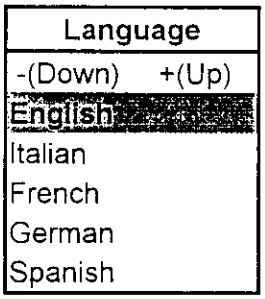



## Language

Press <Function> key to choose from the English, German, French, Spanish and Italian/Dutch to your EasyScreen™. Each language appears in its own native translation. Upon selecting a language, the following menus will be displayed in that language.

Step **1**: Use <+> or <-> key to scroll up or down.

Step **2**: Press <Function> key to select a parameter in Language menu.



### Degauss

Demanetizes the monitor and corrects color impurity caused by external magnetic field. Degaussing should not be used often, and should keep 10 minutes lapse time before doing the second time.

### Exit

Quit the EasyScreen™ on-screen display.

# TROUBLE SHOOTING

| Warning messages | Possible causes | What to do |
|---|---|---|
| Input signal out of range | Power LED is in flash amber. Input signal of H-sync or V-sync is larger or smaller than its normal mode | Monitor will be in protect mode. |
| Check video cable | VGA cable is not properly connected. | Check VGA cable. This OSD message will stay on screen until VGA cable is connected to monitor or Power switch is turned off. |

# POWER CONSUMPTION

| Mode | H-sync | V-sync | Power consumption |
|---|---|---|---|
| Normal | active | active | 110 watts (max.) |
| Standby/Suspend | active | inactive | 15 watts (max.) |
| | inactive | active | 15 watts (max.) |
| Off | inactive | inactive | 8 watts (max.) |

# PRESET MODES

There are 12 preset modes and 4 user modes. The following modes are preset as factory defaults:

| Preset mode | $F_H$ | $F_V$ | Standard |
|---|---|---|---|
| 640 x 480 | 31.5 kHz | 60 Hz | VESA |
| 720 x 400 | 31.5 kHz | 70 Hz | VGA |
| 640 x 480 | 37.5 kHz | 75 Hz | VESA |
| 800 x 600 | 37.8 kHz | 60 Hz | VESA |
| 640 x 480 | 43.3 kHz | 85 Hz | VESA |
| 800 x 600 | 46.8 kHz | 75 Hz | VESA |
| 1024 x 768 | 48.4 kHz | 60 Hz | VESA |
| 832 x 624 | 49.7 kHz | 75 Hz | MAC |
| 800 x 600 | 53.7 kHz | 85 Hz | VESA |
| 1024 x 768 | 60.0 kHz | 75 Hz | VESA |
| 1280 x 1024 | 63.9 kHz | 60 Hz | VESA |
| 1024 x 768 | 68.7 kHz | 85 Hz | VESA |

** Video cable adapter needed for Macintosh and Quadra resolutions.*

# SPECIFICATIONS

| | | |
|---|---|---|
| **Picture Tube** | 17" (16" diagonal viewable image) flat square tube (FST) with enhanced contrast, dark- tinted CRT, invar shadow mask, advanced anti-reflection, anti- glare, and anti- static coating with low electromagnetic field. | |
| **Dot Pitch** | ProVista E55- 0.28mm; MicroScan P50- 0.26mm | |
| **Rec. Resolution** | 1280 x 1024@ 60Hz, 1024 x 768@ 85Hz | |
| **Deflection Frequency** | Horizontal: | 30 to 69 KHz |
| | Vertical: | 50 to 160 Hz |
| **Max. Video Input Bandwidth** | 110 MHz | |
| **Display Area*** | Factory Setting: | approx. 300mm x 225 mm |
| | Active Area: | approx. 320mm x 240 mm |
| **Input Signals** | Video: | Analog. 0.7 Vp-p/ 75 Ohms Positive |
| | Sync: | Separate sync. TTL level, 3 Vp-p typical |
| **Input Connector** | 15-pin D-sub Type | |
| **Display Colors*** | Analog input; unlimited colors | |
| **Power Source** | 90 - 264 VAC (Universal) | |
| **Power Consumption** | 110 watts (max.) | |
| **Power Management** | EPA/ Energy Star | |
| | VESA DPMS signaling method | |

| | | |
|---|---|---|
| **PnP Compatibility** | VESA DDC 1 & 2B standards compliant | |
| **USB hub (Option)** | Locally powered hub with 4 downstream ports and 1 upstream port. | |
| | Monitor control class | |
| **Front Panel Controls** | -(Decrease), Function key, +(Increase), Contrast, Brightness, POWER | |
| **EasyScreen™** | H-Size, H-Position, V-Size, V-Position, Pincushion, Tilt, Trapezoid, Color Adjustment, Management (Power Saver, Display Mode), Language, Degauss and Factory Reset | |
| **Safety Regulations** | UL, CSA, TÜV, NORDIC (NEMKO, SEMKO, FIMKO, DEMKO) | |
| **EMI** | FCC Class B, CISPR 22, VCCI | |
| **EMC** | CE | |
| **Ergonomics** | DHHS, ZH 1/618, ISO 9241-3 | |
| **Monitor Dimension** | 415mm(W) x 415mm(H) x 452mm(D) | |
| **Net Weight** | 17.8 kg | |
| **Ambient Temperature** | Operating: | 0°C - 40°C |
| | Storage: | -20°C - 65°C |
| **Humidity** | Operating: | 20% - 95% |
| | Storage: | 10% - 95% |

** Dependent on video controller/ card used*

*NOTICE:*

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**Federal Communications Commission (FCC) 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 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.

Warning:

Use only shielded cables to connect I/O devices to this equipment.
You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.