

## INTRODUCTION

Thank you for purchasing ADI's DUO monitor!

The user's manual provides information that are necessary for better understanding of installation and smooth operation.

### Features

- 17-inch (16-inch viewable image) microprocessor-based display provides autosizing and centering across all graphic modes and smooth transition during mode change.
- 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.
- User-friendly EasyScreen™ allows on-screen easy adjustment of Horizontal Size/Position, Vertical Size/Position, Pincushion, Trapezoid, Tilt, Color Adjustment, Language, Power Saver, Display Mode, Pin-balance, Parallelogram, V-Linearity, Corner and Factory Reset.
- The integrated stereo speaker system provides the ability to run voice and music-enabled applications with no additional cost for add-on audio equipment and without the need for complex external wiring.
- Built-in microphone picks up voice for teleconferencing and voice recognition applications.

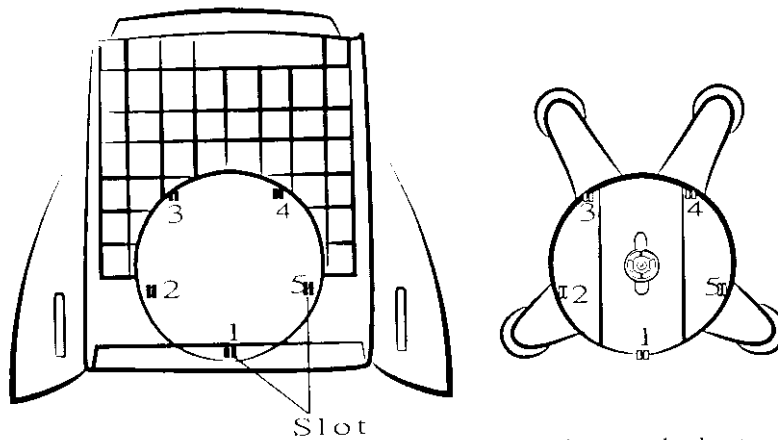
### Unpacking

Check that four items are present and in good condition:

1. DUO Monitor (with Video Signal Cable)
2. Swivel Base
3. Power Cord
4. User Manual

## GETTING STARTED

### Installing and Removing the Swivel Base

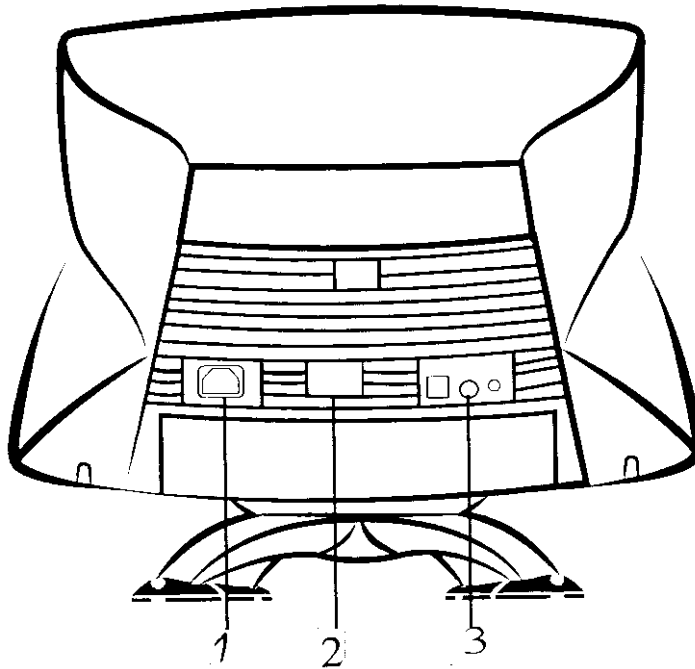


Put the labeled hooks onto the corresponding slots on the bottom of the monitor. Push down and forward the base.

### Removing

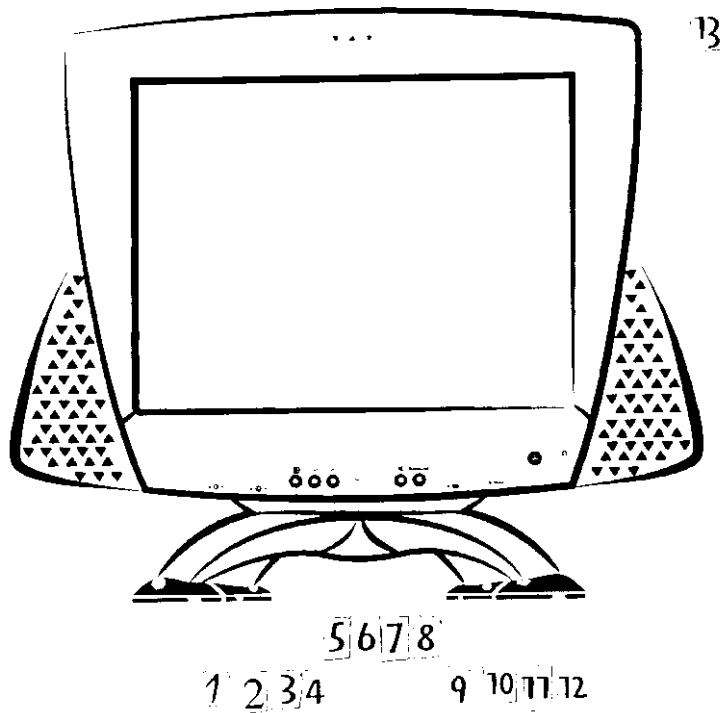
Press down the lock located between #3 and #4 slots and remove the base by pulling up the base.

## Connecting your monitor



1. Turn off the power of your computer and other devices.
2. Connect ② 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 ① the power cord to the monitor and then to a grounded power outlet.
4. ③ is the USB cable jack. USB hub is an optional accessory and is sold separately.
5. Turn on the monitor and computer.
6. If necessary, adjust the front panel controls accordingly to your personal preference.

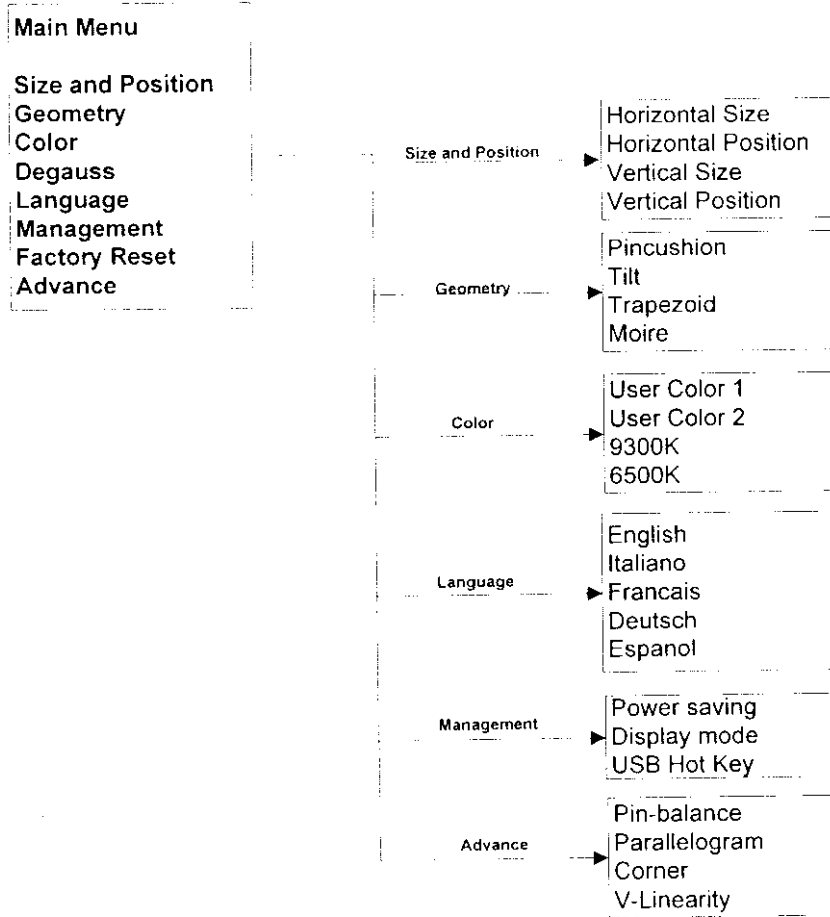
## LOCATION OF CONTROLS



- |                     |   |  |
|---------------------|---|--|
| 1 <b>Contrast</b>   | ● | Adjust the image brightness in relation to the background.         |
| 2 <b>Brightness</b> | ☀ | Adjust the overall image and background brightness level.          |
| 3 <b>Function</b>   | ☰ | Displays EasyScreen™ on-screen display.                            |
| 4 <b>Decrease</b>   | ∨ | Scrolls down and decrease the value of a parameter of EasyScreen™. |

- |    |                     |          |  |
|----|---------------------|----------|--|
| 5  | <b>Increase</b>     | ^        | Scrolls up and increase the value of a parameter of EasyScreen™.                       |
| 6  | <b>Power LED</b>    |          | The red light and no light signals ON or OFF respectively.                             |
| 7  | <b>Speaker Mute</b> | 🔇        | Turns off the speaker  |
| 8  | <b>SURROUND</b>     |          | Changes sound field.   |
| 9  | <b>Volume</b>       | + 🔊 -    | Controls volume to speaker and headphone.  |
| 10 | <b>Tone</b>         | + Tone - | Controls sound quality relative to its frequency with output.                          |
| 11 | <b>POWER</b>        | Ⓞ        | Turns the monitor On/ OFF. The green light or no light signals ON or OFF respectively. |
| 12 | <b>Headphone</b>    | 🎧        | Headphone jack is located at the bottom of the right speaker.                          |
| 13 | <b>Microphone</b>   |          | Built-in microphone is located at the top of the screen.                               |

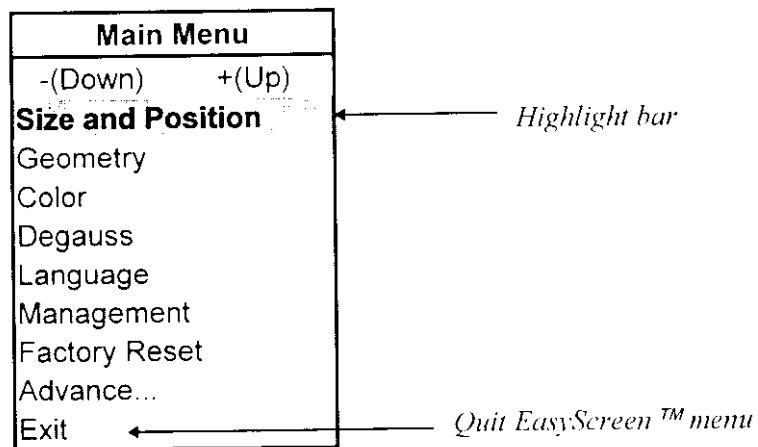
## Quick glance



## EASYSscreen™ ADJUSTMENT CONTROLS

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

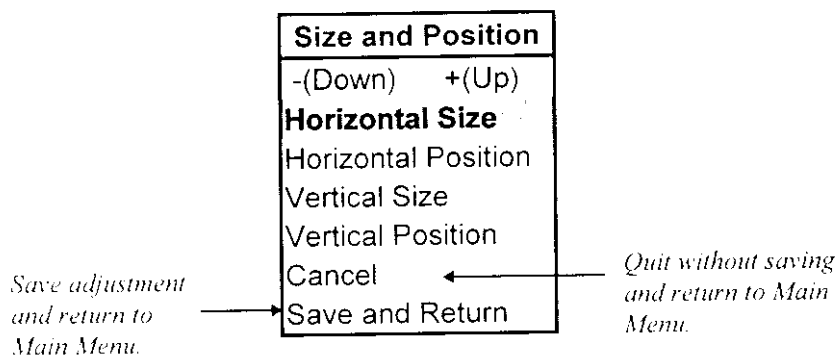
Step 2: Press <+> or <-> key to scroll up or down the Main Menu and then press <Function> key to enter into the secondary menu.



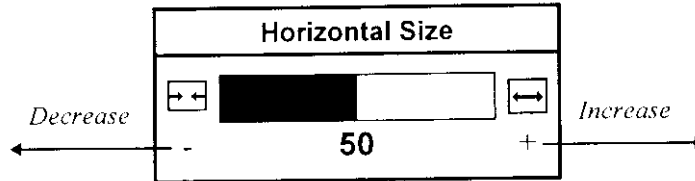
### Size and Position

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.

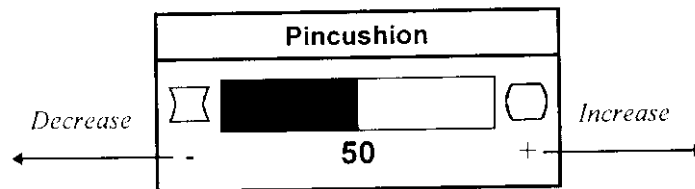
**Geometry**

- Step 1: Use <+> or <-> key to scroll up or down.
- Step 2: Press <Function> key to select a parameter in Geometry menu.









Geometry	
-(Down)	+(Up)
<b>Pincushion</b>	
Trapezoid	
Tilt	
Moire	
Cancel	
Save and Return	

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.

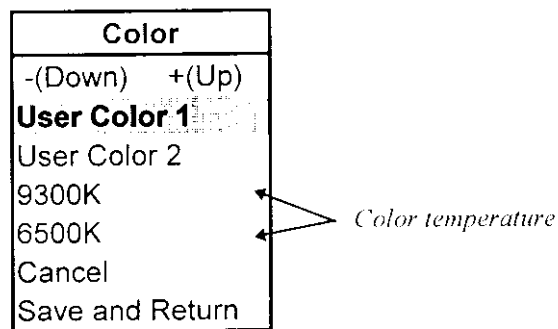
Functions	-	+	Description
<b>Pincushion:</b>			Curves left and right sides of the screen inward or outward.
<b>Trapezoid:</b>			Minimizes trapezoid distortion of the screen.

<b>Tilt:</b>		Rotates image clockwise or counter clockwise.
<b>Moire:</b>		Removes the moire patterns.

## Color

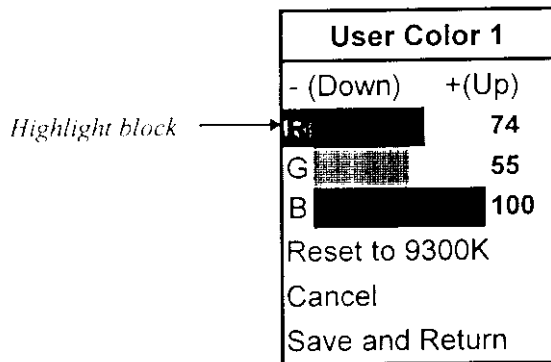
Step 1: Use <+> or <-> key to scroll up or down.

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.

### Degauss

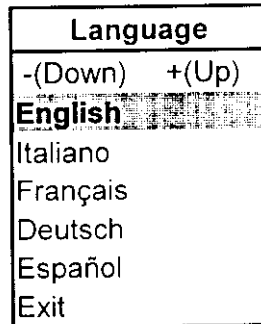
Demagnetizes the monitor and corrects color impurity caused by external magnetic field. Degaussing should not be used often, and should keep 10 minutes lapse time before doing the second time.

## 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 menu will be displayed in that language.

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

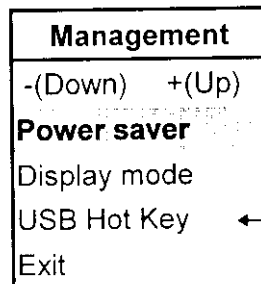
Step 2: Press <Function> key to select a parameter in Language menu.



## Management

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

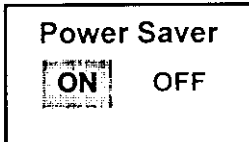
Step 2: Press <Function> key to enter different functions as indicated below:



*USB OSD software is only available in the presence of USB hub; ADI USB hub is an optional accessory and is sold separately.*

### 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.

**USB Hot Key:** Activates or deactivates USB monitor control.



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

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

*Notes: For USB hub installation or further details, please refer to USB hub user's manual.*

### 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.

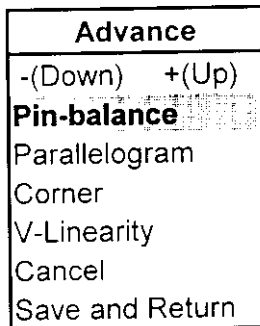
Step 2: Press <Function> key to reset/cancel and return to the main menu.

**Confirm Reset**

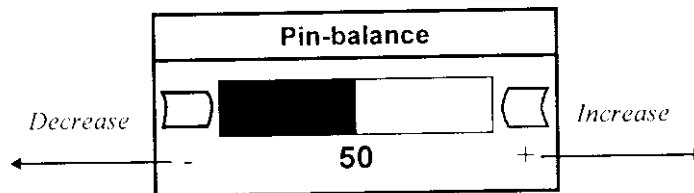


### Advance

- Step 1: Use <+> or <-> key to scroll up or down.
- Step 2: Press <Function> key to select a parameter in Advance 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 Advance 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
Pin-balance:			Adjusts concavity of the screen in one direction.
Parallelogram			Adjusts the parallelogram of the screen.
V-Linearity			Corrects the vertical linearity of upper half/lower half parts of the screen proportionally.
Corner			Curves the corners of the screen.

### 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

The monitor comes with a power saving feature that controls the power consumption of the monitor; therefore, you may put the monitor into a reduced power consumption state when it is not in use. This feature complies with both EPA's Energy Star requirements and European NUTEK/TCO's power management guidelines. It conforms with Video Electronics Standard Association (VESA) approved DPMS power-down signaling method.

Mode	H-sync	V-sync	Power consumption
Normal	active	active	125 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 <sub>H</sub>	F <sub>V</sub>	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

<b>Picture Tube</b>	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.	
<b>Dot Pitch</b>	<b>0.28mm</b>	
<b>Rec. Resolution</b>	1280 x 1024@ 60Hz, 1024 x 768@ 85Hz	
<b>Deflection Frequency</b>	Horizontal:	30 to 69 KHz
	Vertical:	50 to 160 Hz
<b>Max. Video Input Bandwidth</b>	108 MHz	
<b>Display Area*</b>	Factory Setting:	approx. 300mm x 225 mm
	Active Area:	approx. 320mm x 240 mm
<b>Input Signals</b>	Video:	Analog. 0.7 V
	Sync:	Digital 3.3 V
<b>Input Connector</b>	15-pin D-sub Type	
<b>Display Colors*</b>	Analog input; unlimited colors	
<b>Power Source</b>	90 - 264 VAC (Universal)	
<b>Power Consumption</b>	125 watts (max.)	
<b>Power Management</b>	EPA/ Energy Star VESA DPMS signaling method	
<b>PnP Compatibility</b>	VESA DDC 1 & 2B standards compliant	

<b>USB hub (option)</b>	Locally powered hub with 4 downstream ports and 1 upstream port. (+5V, 2Amps. max: 0.5Amps. each port) Monitor control class
<b>Multimedia</b>	Speakers 3W x 2; response: 70Hz - 20KHz Built-in microphone: response: 300Hz - 4KHz
<b>Front Panel Controls</b>	Contrast, Brightness, Function key, V (Decrease), ^ (Increase), Speaker Mute, Surround, Volume, Tone, POWER
<b>EasyScreen™</b>	H-Size, H-Position, V-Size, V-Position, Pincushion, Tilt, Trapezoid, Moire, Color Adjustment, Management (Power Saver, Display Mode), Language, Degauss and Factory Reset, Pin-balance, Parallelogram, Corner, V-Linearity
<b>Safety Regulations</b>	UL, CSA, TÜV, NORDIC (NEMKO, SEMKO, FIMKO, DEMKO)
<b>EMI</b>	FCC Class B, CISPR 22, VCCI CE, BCIQ
<b>Ergonomics</b>	DHHS, ZH 1/618, ISO 9241-3
<b>Monitor Dimension</b>	415mm (W) x 415mm (H) x 452mm (D)
<b>Net Weight</b>	16 kg
<b>Ambient Temperature</b>	Operating: 0°C - 40°C Storage: -20°C - 65°C
<b>Humidity</b>	Operating: 20% - 95% Storage: 10% - 95%

\* *Dependent on video controller card used*

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