

## FCC Compliance 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 radio frequency interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception (this can be determined by turning this 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 this equipment and the receiver.
- Connect this equipment to an outlet on a circuit different from which the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

### Caution:

To comply with the limits for an FCC Class B computing device, always use the shielded signal cord and shielded power cord supplied with this unit.

### Caution to the user:

The Federal Communications Commission warns the user that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Notice of Compliance Canadian Interference-causing Equipment Regulations

### DOC Compliance Notice:

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

### DOC Avis de Conformation

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicable aux appareils numériques de la class B prescrites dan le Règlement sur le brouillage radioélectriques édicté par le ministère des Communications du Canada.

### Trademark

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## **Quick Setup (IBM/IBM Compatible under Windows 95/98)**

### **Please Read Carefully When Setting Up Your New Monitor**

AGM15TGS Monitor Screen Adjustment and Resolution Setting Procedure for IBM/IBM Compatible Computers with Windows based OS system.

Before adjusting the monitor, all the necessary drivers should be installed to your System and resolution has to be set to manufacturer's recommended preset of 800 x 600 @ 60Hz, 70Hz, 72Hz and 75 Hz.

#### **To change the resolution to its factory recommended preset.**

1. On a Windows 95 or 98, press right button on a Mouse to execute the Pop-up menu.
2. Press "**Properties**" to execute the "**Display Properties**"
3. Press "**Setting**" and change the resolution to 1024 x 768.
4. Press "**Apply** or **OK**" to select and press "**OK**" to keep the selected resolution.
5. Go back to "**Display Properties**" - "**Setting**" - "**Advanced properties**" - "**Adapter**"
6. On Adapter property, change the refresh rate to 60Hz, 70Hz, 72Hz or 75 Hz. If you don't have these options, choose "**Adapter Default**". (60Hz recommended)

#### **Screen Adjustment Procedure**

1. Execute Windows 95 or 98
2. Press "**Start**" and "**Shut Down**" – It will display moiré on screen,  
Or execute testptg.exe (TestPattern Generation Program) in the installation disk.
3. Push the OSD control "**UP or Down**" button.
4. Highlight "**Autotune**" in the OSD the push "+".
5. If even after Autotune the screen is not centered, in "**Geometry**" select "**H.position**", "**V.position**" for screen adjustment.
6. When horizontal display noise(Snow effect) occurs, press "**Up or Down**" button and select "**Geometry**" then push "+" then adjust "**Phase**" to reduce or get rid of the noise.
7. When vertical display noise (bar effect) occurs, press "**Up or Down**" button and select "**Geometry**" then push "+" then adjust "**Clock**" to reduce or get rid of the noise
8. Exit the OSD by going back to the main menu then select "**Exit**" then pressing "+" button.
9. On a Shut down menu, press "**No**" or "**Cancel**". If you execute testptg.exe, press any key on the keyboard.
10. Finally you have adjusted the monitor and at this point you should have a very sharp and clear display monitor. If the current display dose not satisfy you, go back to "**Screen Adjustment Procedure**" or Change the refresh rate other than your current selected refresh rate.

## Quick Setup (IBM/IBM Compatible under Windows NT 4.0)

### Please Read Carefully When Setting Up Your New Monitor

AGM12TG Monitor Screen Adjustment and Resolution Setting Procedure for IBM/IBM Compatible Computers with Windows based OS system.

Before adjusting the monitor, all the necessary drivers should be installed to your System and resolution has to be set to manufacture's recommended preset of 1024 x 768 @ 60Hz, 70Hz, 72Hz or 75Hz.

#### To change the resolution to its factory recommended preset.

1. On a Windows NT 4.0, press right button on a Mouse to execute the Pop-up menu.
2. Press "**Properties**" to execute the "**Display Properties**"
3. Press "**Setting**" and change the resolution to 1024 x 768.
4. Change "**Refresh Frequency**" to 60Hz, 70Hz, 72Hz or 75Hz. (60Hz recommended)

#### Screen Adjustment Procedure

1. Execute Windows 95 or 98
2. Press "**Start**" and "**Shut Down**" – It will display moiré on screen,  
Or execute testptg.exe (TestPattern Generation Program) in the installation disk.
3. Push the OSD control "**UP or Down**" button.
4. Highlight "**Autotune**" in the OSD the push "+".
5. If even after Autotune the screen is not centered, in "**Geometry**" select "**H.position**", "**V.position**" for screen adjustment.
6. When horizontal display noise(Snow effect) occurs, press "**Up or Down**" button and select "**Geometry**" then push "+" then adjust "**Phase**" to reduce or get rid of the noise.
7. When vertical display noise (bar effect) occurs, press "**Up or Down**" button and select "**Geometry**" then push "+" then adjust "**Clock**" to reduce or get rid of the noise
8. Exit the OSD by going back to the main menu then select "**Exit**" then pressing "+" button.
9. On a Shut down menu, press "**No**" or "**Cancel**". If you execute testptg.exe, press any key on the keyboard.
10. Finally you have adjusted the monitor and at this point you should have a very sharp and clear display monitor. If the current display dose not satisfy you, go back to "**Screen Adjustment Procedure**" or Change the refresh rate other than your current selected refresh rate.

## **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 adapter**
  - **Use the type of power adapter, which supplies from manufacturer for safety and electronic issue.**
- **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 120 V AC, use a power cord that has UL and C-UL approvals. If the power source is a 240 V 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, 4.0A (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.**

## **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 graphics and images. Other outstanding designs that enhance this LCD monitor's performance are Plug & Play compatibility, 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 cord**
- **Audio cable**
- **USB cable (optional)**
- **User's manual**

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## Product Features

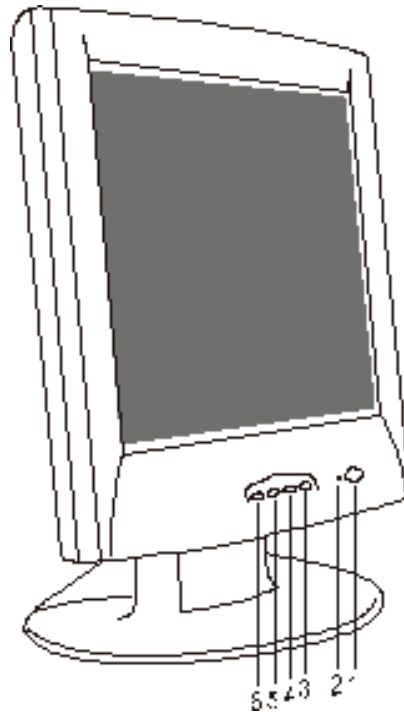
- **High contrast color TFT LCD display support resolution up to XGA 1024x768. Compatible with IBM VGA and VESA.**
- **Power management system conforms to VESA DPMS standard.**
- **Universal power adapter.**
- **Support DDC1/2B for Plug & Play compatibility.**
- **Advanced OSD control for picture quality adjustment.**
- **Detachable stand for wall-mounting application.**
- **Optional USB (Universal Serial Bus) supporting with 2 downstream ports**
- **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.**

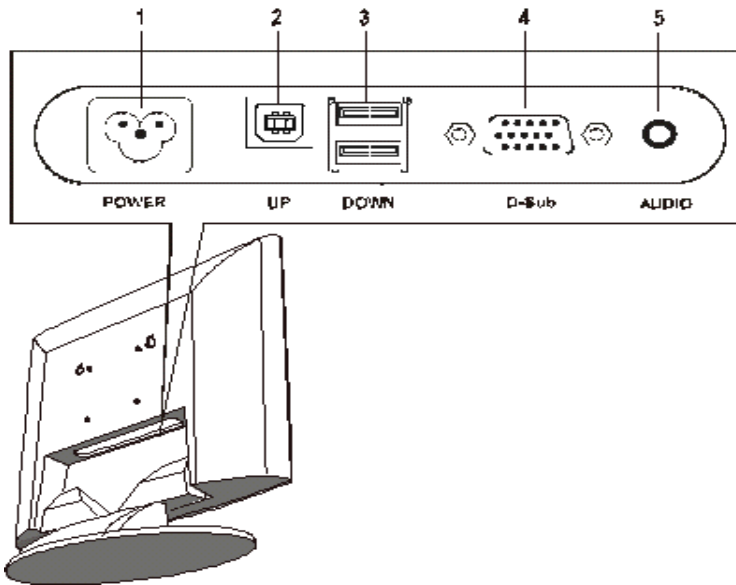
## Taking a Look

### *Front View*



1. Power Switch Pressing this button turns the display system power on or off.
2. Power LED This LED indicates different status when this unit operates in different modes.
3. Menu/Select Up Pressing this button pops up the OSD menus on the screen, and used to select (“Up” direction) the OSD control options on the screen.
4. Menu/Select Down Pressing this button pops up the OSD menus on the screen, and used to select (“Down” direction) the OSD control options on the screen.
5. + This button is used to adjust the increasing value of the selected OSD control option.  
- This button is used to adjust the decreasing value of the selected OSD control option.

## Rear View



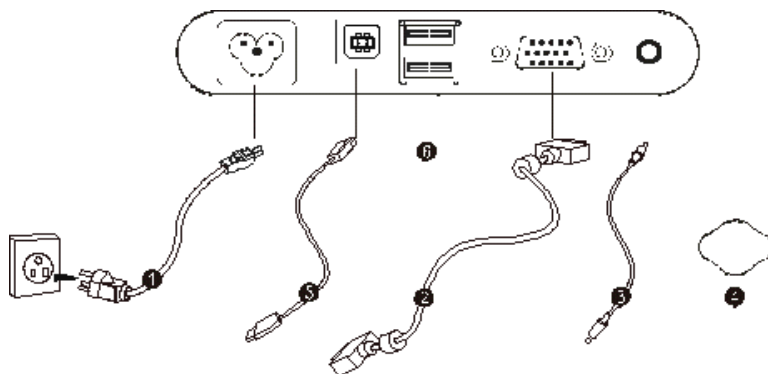
1. Power Connector **This is for connecting the power cable.**
2. USB Up **This upstream port is for connecting a USB hub. (optional)**
3. USB Down **Each of these two downstream ports are for connecting a USB device. (optional)**
4. Signal Connector **This can be connected with the D-sub 15 pin signal connector.**
5. Audio In **This can be connected to the audio-out connector of the computer.**

## Setting Up

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**WARNING** When you disconnect the cord/cables, be sure to hold the connector instead of the wire part.

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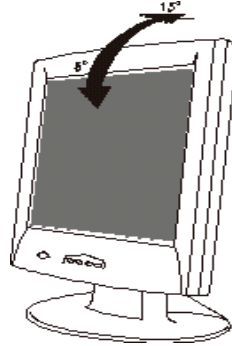
1. Connect one end of the power cord to the monitor and the other end to the AC outlet. (1)
2. Connect one end of the signal cable to the rear side of computer and the other to the LCD monitor. Tighten by turning clockwise the two thumb screws to ensure proper grounding. (2)
3. Connect either end of the audio cable to the Audio In connector on the monitor and the other end to the audio-out connector of your computer (3)
4. Pressing the power button on front panel turns the display system power on. (4)
5. If you have USB device need to work, you should connect one end of the USB cable to USB Up port on the monitor and the other end to the USB port of your computer first(5), then connect the USB device to one of the USB Down ports(6). (optional module)
6. USB Down (6) have 2 ports to support 2 USB devices. (optional module)

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## Display Angle

### *Tilting*

For viewing clarity, you can tilt the LCD forward (up to 5 degrees) or backward (up to 15 degrees.)



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**CAUTION** In order to protect the LCD, be sure to hold the base when you adjust the LCD, and, **do not** touch the screen.

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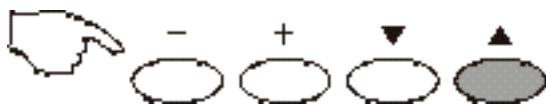
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## Controls and Adjustment

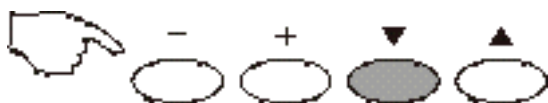
### Adjusting with the OSD Control

- *To Display and Select the OSD Functions:*

Pressing Up, Down, + or - once pops up the OSD function main menu.

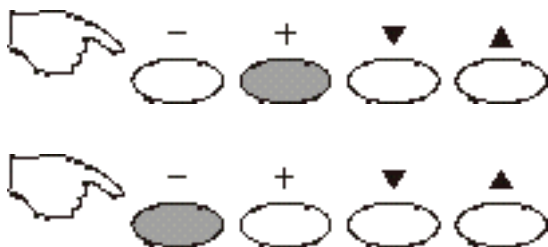


Pressing Up or Down a second time to select the different OSD control option.



- *To Adjust the Value of the Control Option:*

Pressing + / - button changes the value of the selected OSD control option.



After adjusting values, the monitor will automatically save the changes.

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**NOTE** The OSD screen will disappear if no input activities are detected for 10 seconds.

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# OSD Control Options



*OSD Main Menu*

- *BRIGHTNESS*

Adjust the brightness using + and - buttons.

- *AUDIO*

Adjust the speakers volume using + and - buttons.

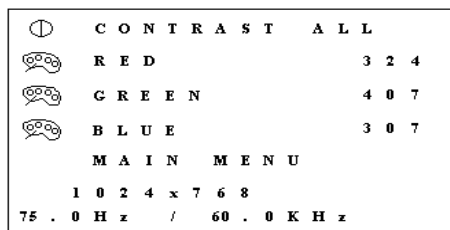
- *AUTOTUNE*

Press + or - buttons to make LCD monitor adjust the related parameters automatically for optimal display status.

- *CONTRAST*

Selecting the “CONTRAST” function, then pressing + or - buttons. OSD will enter the “Contrast Menu”.

Adjust the contrast using + and - buttons, or adjust the values of color gain (RED, GREEN or BLUE) using + and - buttons.







*OSD Contrast Menu*

- *GEOMETRY*

Selecting the “GEOMETRY” function, then pressing + or – buttons. OSD will enter the “Geometry Menu”.

Adjust the contrast using + and – buttons, or adjust the values of color gain (RED, GREEN or BLUE) using + and – buttons.

	C L O C K	1 3 1
	P H A S E	1 1
	H . P O S I T I O N	2 7 4
	V . P O S I T I O N	2 7
	M A I N M E N U	
	1 0 2 4 x 7 6 8	
	75 . 0 H z / 60 . 0 K H z	

*OSD Geometry Menu*

- *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.

- *HORIZONTAL POSITION*

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

- *VERTICAL POSITION*

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

- *RECALL*

Press + or – buttons to recall previous preset values.

- *DISPLAY MODE*

OSD will show the current display mode (resolution, vertical frequency and horizontal frequency) on the menu.

*Resolution*

<b>1 0 2 4 x 7 6 8</b>
<b>75 . 0 H z / 60 . 0 K H z</b>

*Vertical frequency*

*Horizontal frequency*

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## **Power LED Display & Power Saving**

General Power Saving Mode

**When the power switch are switch on, this LED lights in green.**

**The LED indicates the different power status with altered LED colors when monitor operates in different modes (see following table).**

Mode	Power LED Color	Power Consumption	H. / V. Sync.
On	Green	50W	On
Off	Orange	<8W	Off

**\* Above values will be satisfied for “disconnect USB device” condition.**

**The LED also indicates the Power Switch control status (see following table).**

Mode	Power LED Color	Audio Function	USB Function
<b>On</b>	<b>Green</b>	<b>Action</b>	<b>Action</b>
<b>Off</b>	<b>Orange</b>	<b>No Action</b>	<b>No Action</b>

## **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***

Mode	Resolution (H x V)	H. Freq. (KHz)	V. Freq. (Hz)	Pol.
1	640 x 350	31.5	70	+/-
2	720 x 400	31.5	70	-/+
3	640 x 480	31.5	60	-/-
4	640 x 480	37.9	72	-/-
5	640 x 480	37.5	75	-/-
6	640 x 480	35.0	66.67	-/-
7	800 x 600	37.9	60	+/+
8	800 x 600	48.1	72	+/+
9	800 x 600	46.9	75	+/+
10	800 x 600	35.2	56	+/+
11	832 x 624	49.7	75	-/-
12	1024 x 768	48.3	60	-/-
13	1024 x 768	56.5	70	-/-
14	1024 x 768	60	75	+/+

## AGM15TGS Specifications

AGM15TGS	
LCD Panel	38cm/15-inch Color TFT Panel
Type	Active Matrix
Resolution	1024 dots x 768 lines (Recommended)
Pixel Pitch	0.30mm
Display Color	16 million colors
Response Time	30ms
Color Tone	64 tone
Color Filter	RGB vertical stripe type
Face Finishing	Anti-Glare Hard Coated
Viewing Angle	140 H 140 V
Video	0.7Vp-p analog RGB
Input Signal	
Sync	2.5~5.0Vp-p separated sync
Input Impedance	Video - 75 Ohm Sync - 1k Ohm
Scanning Frequency	
Horizontal	24~40kHz
Vertical	43~85Hz
Display Size	
H x V	12" x 9" (304mm x 228mm)
Brightness, Contrast Ratio, Gray Scales	
Brightness	250 cd/m <sup>2</sup> (Max.) Touch Screen Option: Capacitive Type 225 cd/m <sup>2</sup> (Max.)
Contrast Ratio	300:1 Typ.
Gray Scales	256 steps
Signal Input Connector	
Video	DB9-15pin
Stereo Speaker	Speaker Jack (Optional)
Touchscreen	RS-232 DB-9 (Optional)
Temperature Environment	
Operating Temperature	41 ~ 95 F (5 ~ 35 C)
Storage Temperature	-4 ~ 140 F (-20 ~ 60 C)
Humidity	Operating: 20 ~ 80% RH (without condensation) Storage: 10 ~ 90% RH (without condensation)
Power Source	
Display Monitor	AC110~240V
AC-Adapter	Imbedded AC input power system (Build in AC-DC power supply). Universal 90~264 volts (Build-in)
Regulations	
Safety and EMC	UL/cUL, FCC, TUV/GS, CE, MPR II, EPA, NUTEK, TCO (Optional)
Cabinet	
Desktop Stand	16" (W) x 15.3" (H) x 7.7" (D) 408.5mm (W) x 390mm (H) x 195mm (D)
Free Mount	16" (W) x 12.5" (H) x 3.25" (D) 408.5mm (W) x 317.5mm (H) x 82.75mm (D)
Weight	
Desktop Stand	13.4 lb (6.0Kg) 16.4 lb (7.4Kg) with touch screen
Free Mount	11.4 lb (5.1Kg)
Tilt Base	
	5 Down 10 Up
Optional Module	
	Speaker, Amplified 1 Watt Per Channel with Build-In OSD Volume Control (AGM15TGS)
	Touchscreen with Speaker (AGM15TG-TM) MicroTouch Capacitive Type Touch Screen