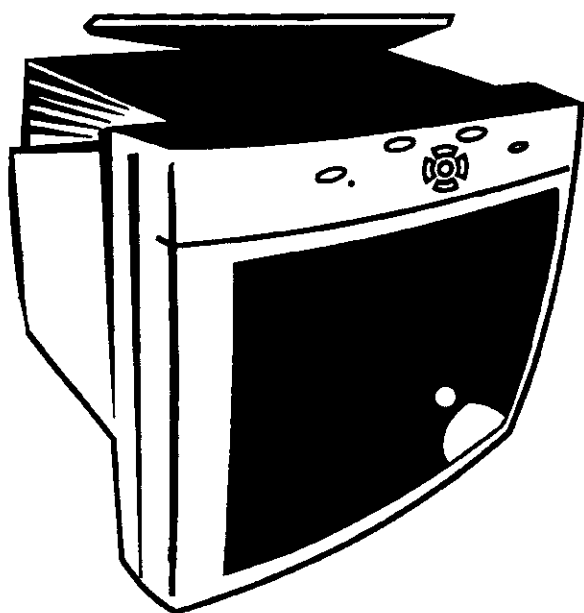


FCC ID: JVP9211C



Monitor



User's Manual
Manuel d'utilisation
Benutzerhandbuch
Manuale Utente
Manual de usuario

Vivid COLOR MONITOR

ACERVIEW



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.

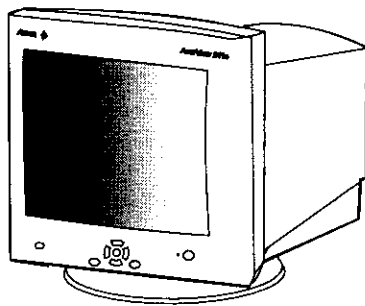
Warning:

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.

Chapter 1 Unpacking the Package

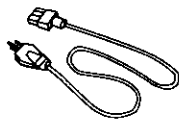
Check following items. If they are missing or damaged, consult your place of purchase immediately.



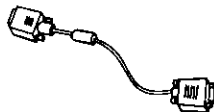
AcerView 211c color monitor



User's manual



Power cord



15-pin D-SUB
signal cable



Macintosh adapter



Locate the model name and the serial number labeled on the back of your monitor. Write down the related information of your monitor and dealer in the space on page iii for future reference.

Features

Super-fine Dot Pitch

With 0.26mm super-fine dot pitch and anti-static coating, AcerView 211 c color monitors offer strikingly sharp and high resolution image up to 1600 x 1200.

Wide Range AutoScan

Horizontal frequency ranges from 30KHz to 107KHz to support 1600 x 1600 @ 91Hz resolution. Flicker-Free design for vertical frequency of up to 160Hz.

**i Key
(Fuzzy Auto calibrating)**

Pressing the i key, the monitor will automatically adjust display's size and position to the optimum. No re-configuration or adjustment is needed when a user changes display mode.

Low radiation

AcerView 211 c is not only in compliance with MPRII, but also meets strictest low radiation regulations of "MPRII" and "TCO'95".

Users and Environment

AcerView 211 c is produced by the ISO 14001 certified manufacturer, and in compliance with the global environmental labelling scheme -TCO'95 which covers not only standards regarding emissions, energy efficiency, electrical and fire safety, but also ergonomic qualities, and ecological concerns.

Plug'n Play Compatibility

Supporting VESA DDC1™ and DDC2B™ standards, AcerView 211 c is compatible with Plug'n Play feature of Window 95®

Power Management

The Power management of this monitor complies with these VESA power saving modes:

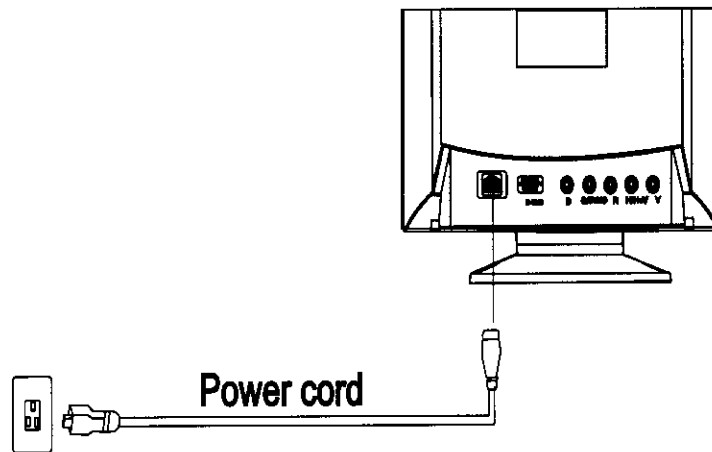
| Mode | Power Consumption | Horizontal Syne | Vertical Sync | LED |
|----------|-------------------|-----------------|---------------|----------------|
| On | Normal | On | On | Green |
| Stand-by | < 15 W | Off | On | Amber |
| Suspend | < 15 W | Off | Off | Amber |
| Off | < 5 W | Off | Off | Amber Blinking |
| Override | Normal | Off | Off | Green |

Factory Preset Timings

| Resolution | Vertical Frequency (Hz) | Horizontal Frequency (KHz) |
|-------------|----------------------------|-------------------------------|
| 640 x 400 | 70 | 31.47 |
| 640 x 480 | 60 | 31.47 |
| 640 x 480 | 75 | 37.50 |
| 800 x 600 | 75 | 46.88 |
| 1024 x 768 | 75 | 60.02 |
| 1024 x 768 | 85 | 68.68 |
| 1280 x 1024 | 75 | 79.98 |
| 1280 x 1024 | 85 | 91.15 |
| 1600 x 1200 | 75 | 93.75 |
| 1600 x 1200 | 85 | 106 |

Chapter 2 Installing the Monitor

This monitor is equipped with an autosensing universal compatible power supply for voltage ranges 100-120/200-240V AC, 50~60Hz.. Please confirm the line voltage designation at the rear panel of the monitor before connecting the machine.

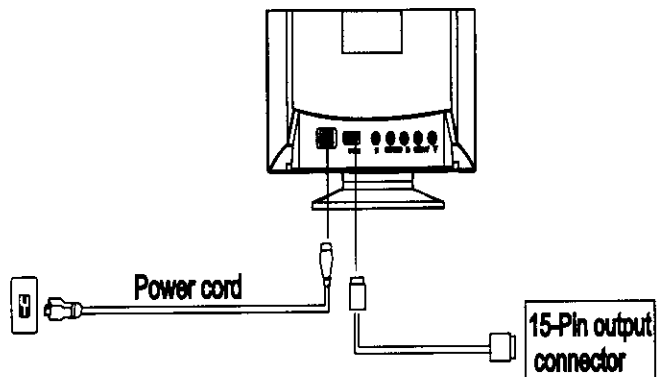


- 1) Make sure that the system power is turned off.
- 2) Please refer to the instructions below to connect the signal cable through D-SUB or BNC.
- 3) Connect the power cord to the monitor and attach it to power source.
- 4) Turn on the computer and the monitor.

Connecting the Signal Cable

Your AcerView 211c provides both D-SUB and BNC signal connectors. The D-SUB or BNC signals can automatically be detected by its microprocessor.

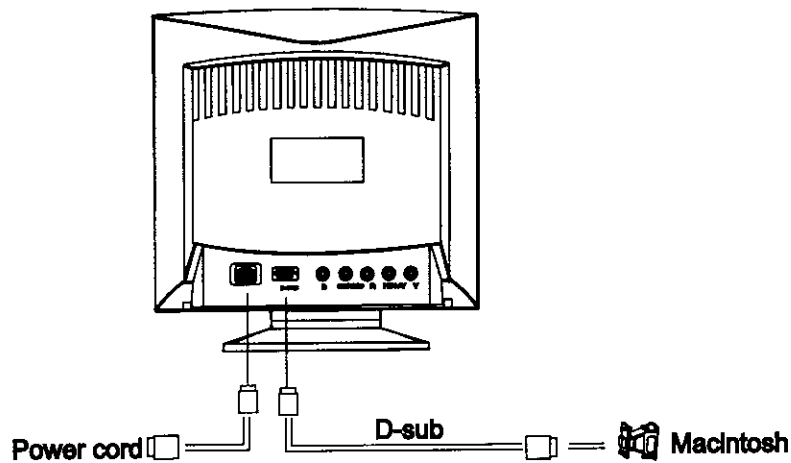
Connecting through D-SUB signal connector



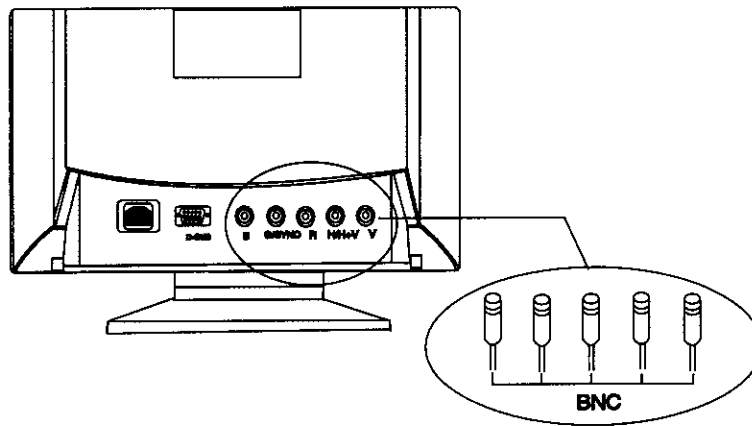
- 1) Make sure that the system power is turned off.
- 2) Connect the computer end of the D-SUB cable to the 15-pin output connector on the video board of your computer.
- 3) Connect the monitor end of the D-SUB cable to the D-SUB receptacle on the back of the monitor.

Connecting to An Apple

If you connect the monitor to an Apple Macintosh through a D-Sub cable, you need to add the Macintosh adapter to connect the video signal port of your computer and the monitor signal cable. Before connecting the adapter please refer to the user's guide of the adapter to set the switches of the adapter.



Connecting through BNC Signal Connector

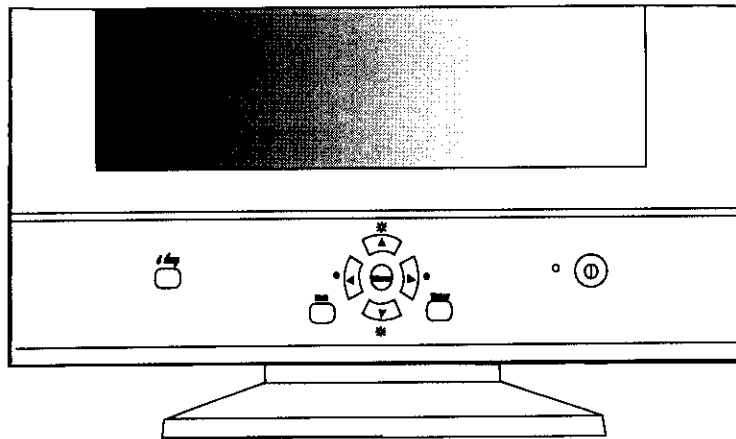


- 1) Make sure that the system power is turned off.
- 2) Connect the computer end of the BNC cable to the output connector on the video board of your computer.
- 3) Connect the monitor end of the BNC cable to the BNC receptacle on the back of the monitor.



Chapter 3

A Look at the Control Panel



- **Menu key** : enters or changes Main menus. There are three main menus.
- **Enter key** : enters sub-menus or selects items.
- **Exit key** : goes back to main menus (auto save), or leaves OSD.
- **▲ & ▼ key** : scrolls the light coloured bar up or down and represents
HOT KEY for brightness adjustment.
- **◀ & ▶ key** : scrolls the light coloured bar left or right and represents
HOT KEY for contrast adjustment.
- *i key* : is used for Fuzzy Automatic calibration adjustment.

Making Adjustments

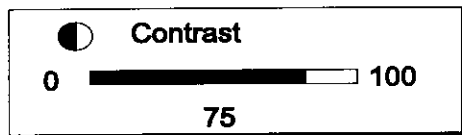
i key (Fuzzy Auto Calibration)

Just push the *i key*, then the monitor will automatically adjust display's size and position to the optimum. No re-configuration or adjustment is needed when a user changes display mode.

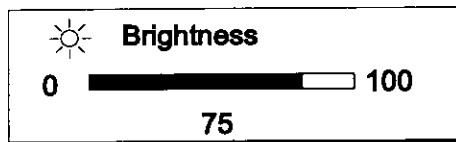
The *i key* function is different from "Reset" function. "Reset" function for display's geometry, size and position only works under the factory preset timings (please see page 3). The *i key* function will work under "ANY" display timings which AcerView 2II c can support.

Hot Keys

Press ◀ or ▶ key to adjust contrast directly.




Press ▲ or ▼ key to adjust brightness directly.



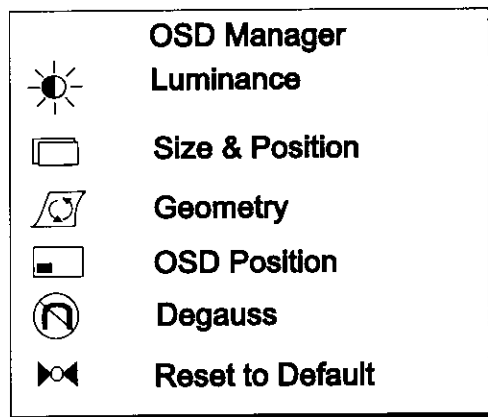
Chapter 3

OSD Operation

- 1) Press **Menu** key to enter (change) Main menus (there are three main menus)
- 2) Press **▲** or **▼** keys to scroll light coloured bar to desired items.
- 3) Press **Enter** key to enter sub-menus.
- 4) Press **◀**, **▶** (**▲**, **▼**) key to do the adjustments. If the sub-menu contains multiple items. Press **▲** or **▼** keys to scroll light coloured bar to desired items. Then press **◀** or **▶** key to adjust as required.
- 5) Press **Exit** key to save and return to main menus.
- 6) Press **Exit** key to save and leave OSD

 **Reset to the factory default settings, please see General Settings Reset and Color Temperature Reset.**

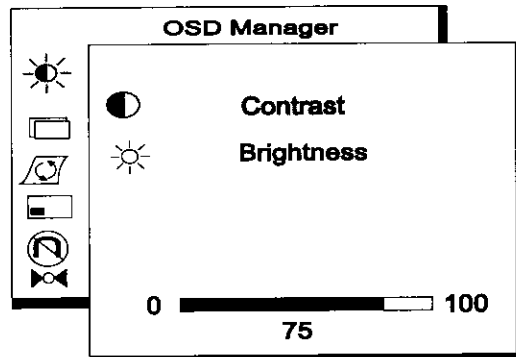
Main Menu 1 Display Control





This main menu includes six items. Scroll the light coloured bar to desired items and press **Enter** to sub-menus.

Luminance

Contrast and Brightness adjustments

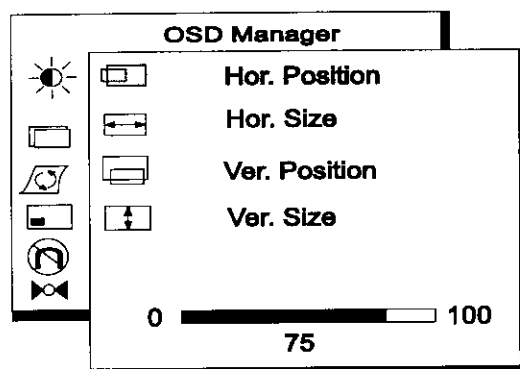


 **Contrast** adjusts the difference between the light and dark areas.


 **Brightness** adjusts the brightness of the display.


Size & Position


Display size and position adjustment




Chapter 3

 **Hor. Position** adjusts the horizontal position of the display.

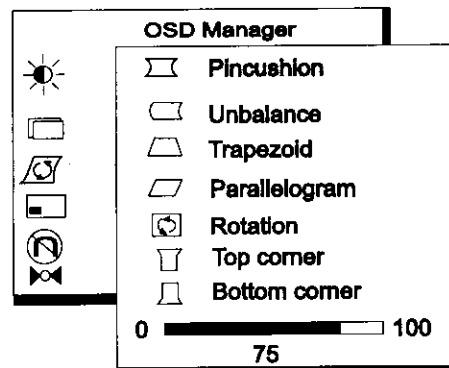
 **Hor. Size** adjusts the width of the display.


 **Ver. Position** adjusts the vertical position of the display.


 **Ver. Size** adjusts the vertical height of the display.

Geometry


Advanced geometry adjustments




 **Pincushion** controls the straightness of the vertical edges of the display.


 **Unbalance** adjusts balance when the sides of display are bowed towards left or right

 **Trapezoid** makes the vertical edges of the display parallel.

 **Parallelogram** corrects image leaning left or right.

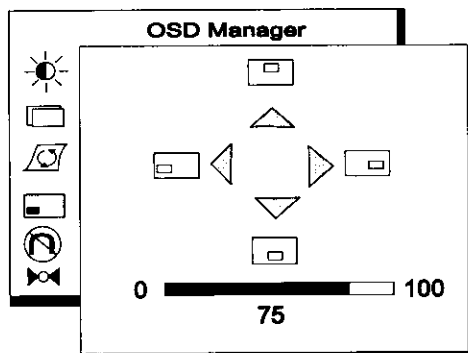
 **Rotation** corrects screen tilt.





 **Top Corner** adjusts the edges on the top corners of the screen image.

 **Bottom Corner** adjusts the edges on the bottom corners of the screen image.

OSD Position

OSD position adjustments



-  adjusts the OSD menu position up.
-  adjusts the OSD menu position down.
-  adjusts the OSD menu position left.
-  adjusts the OSD menu position right.

Degauss

Manual Degauss. To eliminate color shading or impurity induced by magnetism, press **Enter** to active Degauss function.

Reset to Default

Reset the monitor to the default factory settings including H/V position, H/V size, Pincushion, Unbalance, Trapezoid, Parallelogram, Rotation, Corner, H/V Convergence, H/V Moie and Moire. For preset timings, in order to reset to factory default values, press **Enter**. To reset color Temperature, please see page 15.

Main Menu 2 Color Control

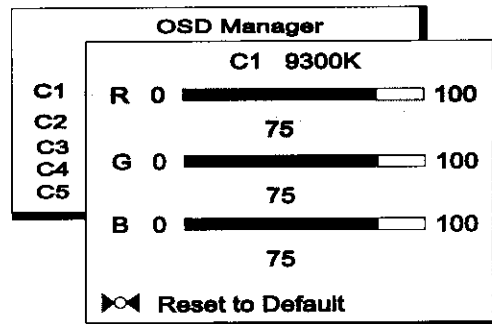
| OSD Manager Color Adjustment | |
|---------------------------------|--------|
| C1 | 9300K |
| C2 | 6500K |
| C3 | 5500K |
| C4 | 7100K |
| C5 | 11500K |

This main menu is defined as color weight adjustment. C1 ~ C5 are color storage areas, which are factory preset but can also be modified by user. The preset information as follows :

| Factory Default | Color Temperature |
|-----------------|-------------------|
| C1 | 9300K |
| C2 | 6500K |
| C3 | 5500K |
| C4 | 7100K |
| C5 | 11500K |

Scroll the light coloured bar to desired color temperature, then press **Exit** to save the setting and leave OSD. Press **Enter** key to sub-menus and adjust RGB color weight.

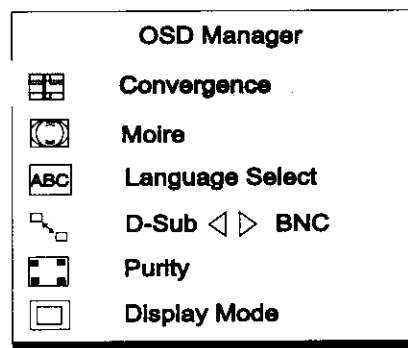
A Look at the Control Panel



This sub-menu adjusts RGB (Red, Green, Blue) color weight. Press ▲ or ▼ keys to scroll light coloured bar to desired items then press ◀ or ▶ key to do the adjustments.

To reset to factory default values, scroll light coloured bar to item "Reset to Default".

Main Menu 3 Advanced Display Control

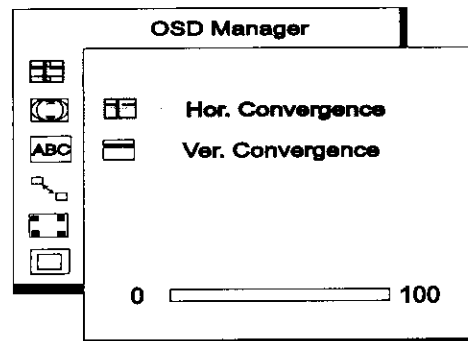


This main menu includes six items, scroll light coloured bar to desired items. Press **Enter** key to enter sub-menus.



Convergence

Horizontal & Vertical Convergence adjustment



Hor. Convergence: adjusts Horizontal Convergence



Ver. Convergence: adjusts Vertical Convergence

Convergence is the monitor's ability to precisely illuminate specific phosphors and line them up properly in order to produce pure color. Displayed characters and images may appear fuzzy or have tinges of red, green, or blue if the electron beams do not converge correctly.

AcerView 211c offers a convergence adjustment feature. To properly adjust convergence, it is best to have an image that makes it easy to see any convergence error. A black background with white letters or lines is recommended. When adjusting convergence, look at the adjustment across the whole screen. When adjusting horizontal convergence, look at the left and right edges of vertical lines or characters. When adjusting vertical convergence, look at the top and bottom edges of horizontal lines or characters. The monitor is properly adjusted when the effects of red and blue tinges are minimized.



The convergence adjustment adjusts the entire screen. It is not possible to limit adjustment to specific screen areas.

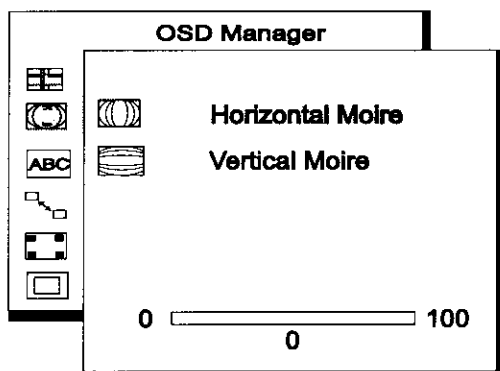


Factory default setting values : 0



Moire

Horizontal & Vertical Moire adjustment



Horizontal Moire: adjusts horizontal Moire



Vertical Moire: adjusts vertical Moire

Moire refers to an interference pattern of dark wavy lines on the screen. It is an interference phenomenon caused by the relationship between the phosphor layout and the imaging signal. In fact, it is often considered an indication of good focus level.

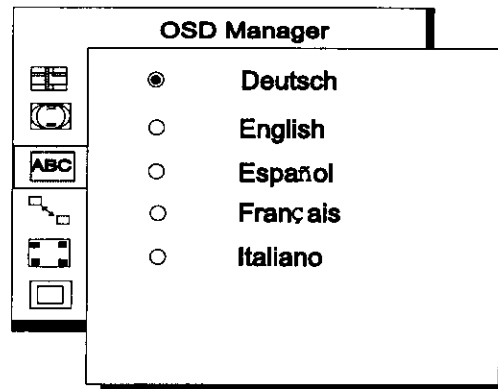
It is especially noticeable when using a light-gray or every-other-dot pattern. Moire cannot be eliminated. However, it can be reduced with the moire reduction feature.

Moire can be reduced by adjusting the iscreen moire reduction function. Prior to adjustment, set the screen to a full white pattern so that moire will be visible. After this adjustment, make changes to a different screen background in order to reduce moire even further.

If the picture is unstable when you adjust the moire reduction setting, over-adjustment has occurred. Please lower the moire reduction setting level. (Factory default setting value : 0).

Chapter 3

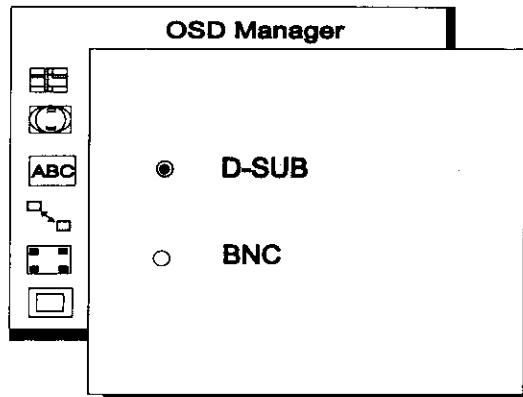
Language Select



The sub-menu is defined as language selection and there are five languages to choose from.

D-Sub ◀▶ BNC

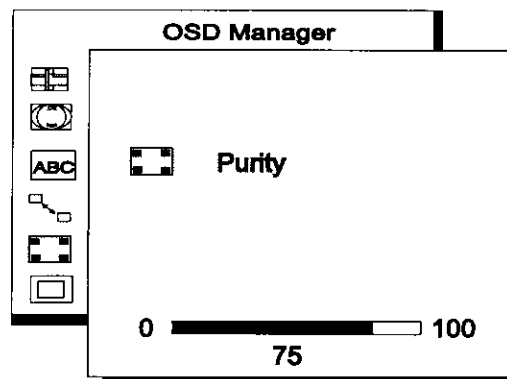
Input connector select.



There are two kinds of input connectors for AcerView 211 c. One is a BNC connector, the other is a DB-15. The 211 c is capable of automatically detecting the type of connector used (either BNC or DB-15). If the two connectors are connected simultaneously, the user can select the desired connector.

Purity

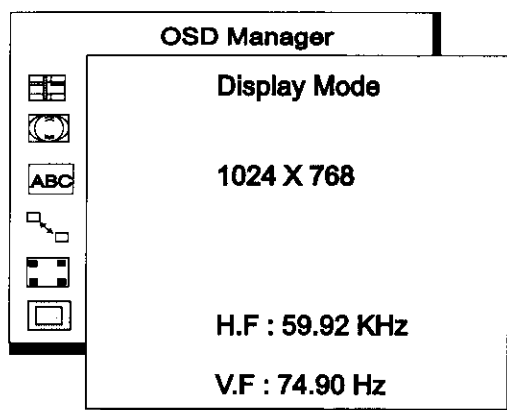
Colour purity adjustment



To adjust Purity, choose a full white picture and adjust to get a pure white picture at the corner of the screen image.

Display Mode

Current resolution, horizontal and vertical frequency status presentation.



Timing Setting

By making adjustments to your video card settings, you can set the timing and the refresh rate according to your preferences. The monitor will automatically save the settings. Your monitor can accept a vertical frequency ranging from 50 Hz to 160 Hz and an horizontal frequency from 30 KHz to 107 KHz. However, due to different video card and resolution settings, we recommend that you do not exceed the maximum refresh rate, 160 Hz for vertical frequency and 107KHz for horizontal frequency to avoid possible damage to your monitor.

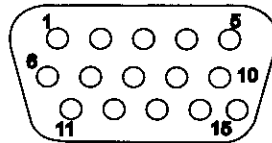
| Resolution | Recommended Maximum Vertical Refresh Rate(Hz) |
|------------|--|
|------------|--|

| | |
|-------------|-----|
| 640 × 480 | 160 |
| 800 × 600 | 145 |
| 1024 × 768 | 135 |
| 1280 × 1024 | 100 |
| 1600 × 1200 | 90 |

 *To set the timing and the refresh rate, please see the user's guide of your video card.*

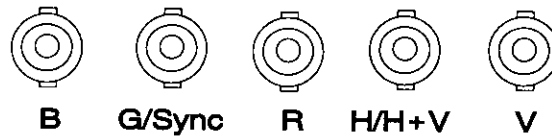
Pin Assignments

D-SUB Connectors



| Pin No | Signal | | |
|--------|---------------|---------------|---------------|
| | Separate | Composite | Sync-on-green |
| 1 | Red | Red | Red |
| 2 | Green | Green | Green + SYNC |
| 3 | Blue | Blue | Blue |
| 4 | NC | NC | NC |
| 5 | GND | GND | GND |
| 6 | R-GND | R-GND | R-GND |
| 7 | G-GND | G-GND | G-GND |
| 8 | B-GND | B-GND | B-GND |
| 9 | PC5V(For DDC) | PC5V(For DDC) | PC5V(For DDC) |
| 10 | GND-SYNC | GND-SYNC | GND-SYNC |
| 11 | GND | GND | GND |
| 12 | DDC Data | DDC Data | DDC Data |
| 13 | H-SYNC | H/V-SYNC | Not Used |
| 14 | V-SYNC | Not Used | Not Used |
| 15 | DDC Clock | DDC Clock | DDC Clock |

BNC Connectors



| Pin Assignment | Signal | | |
|-------------------|----------|-----------|---------------|
| | separate | composite | sync-on-green |
| B | Blue | Blue | Blue |
| G/SYNC | Green | Green | Green + SYNC |
| R | Red | Red | Red |
| H/H+V | H-SYNC | H/V-SYNC | NC |
| V | V-SYNC | NC | NC |

Chapter 4 Troubleshooting

Make sure that your monitor is properly installed. If you have encountered any trouble in using this product, for hardware installation problems, see **Chapter 2, Installing the Monitor**. If the problems persist, check this chapter for possible solutions. If you cannot find AcerView 2II c on the Windows 95 monitor list, you would have to update the Windows 95 setup information for AcerView 2II c. You can download the update file from the API web site (<http://www.api.com.tw>)

§ If there is no picture on the screen, check:

- Power outlet type.
- Video sync signal. The video sync signal must be specified for the monitor.
- Power saving mode. Press any key & use the mouse to deactivate the mode.
- Signal cable connector pins. If pins are bent or missing, consult your dealer.

§ If the picture is scrolling or unstable, check:

- Signal connector pin assignments. Replace with a functional one if inoperative.
- Signal cable connector pins. If pins are bent or missing, consult your dealer.
- Graphics card. See if the settings are made properly.
- Scanning frequency. Change the settings of your graphics card to acceptable options.
- Remove magnetic objects near the monitor.
- Over-adjusting moire reduction setting, please check the moire reduction setting level. See **Chapter 3, A Look at the Control Panel**.

Chapter 4

§ If the characters look dark, the picture is too small, too large or not centered etc.

- Adjust related settings. See **Chapter 3, A Look at the Control Panel**.

§ If colors are impure.

- Check signal cable connector pins. If pins are bent or missing, consult your dealer
- Adjust the Purity setting. See **Chapter 3, A Look at the Control Panel**.

Maintenance

- ✗ Do not expose the monitor to direct sunlight or heat.
- ✗ Do not spill liquid on the monitor.
- ✗ Do not attempt to open the monitor. You may be hurt by electric shock. For service, call your dealer.
- ✗ Do not use your monitor when magnets or electronic products are operating nearby.
- ✗ Do not use harsh chemicals or strong cleaning solvents to clean the monitor screen. Wipe it with mild solution applied on clean and soft cloth.
- ✗ Do not place anything on your monitor. Bad ventilation may elevate temperature within the monitor.



Need More Help?

If your problems remain after checking this manual, please contact your place of purchase or e-mail us at: stevenleung@api.com.tw

Chapter 5

Specifications

| | |
|--------------------------------|---|
| Picture | |
| Size | 21" (53.34cm) diagonal |
| AG Pitch | 0.26mm dot pitch |
| Surface Transmission | Non-glare/semi-tinted |
| Maximum Viewable Size | 20" (51cm) diagonal |
| Video Input | 15-pin, mini D-SUB Connector/BNC Connector |
| Bandwidth | 230MHz |
| Display Area | 380mm(H) × 285mm(V) (Preset) 408mm(H) × 306mm(V) (Full Scan) |
| Power Supply(Universal) | |
| Input voltage | 100~120/200~240 VAC, 50~60 Hz (Universal compatible) |
| Power consumption | 150 Watts max./165 Watts max.(With USB) |
| External Controls | Power switch, i key auto-calibration, Contrast, Brightness, Horizontal Position, Horizontal Size, Vertical Position, Vertical Size, Pincushion, Unbalance, Trapezoid, Parallelogram, Rotation, Top Corner, Bottom Corner, Color Weight, Degaussing, Horizontal Convergence, Vertical Convergence, Horizontal Moire, Vertical Moire, BNC and DB-15 Selection, Reset, Language Select, Purity |
| Max. Resolution | 1600 × 1200 |
| Horizontal Frequency | 30-107 KHz |
| Vertical Frequency | 50-160 Hz |

| | |
|--------------------------------|--|
| Dimensions (with stand) | 508mm(W) x 515mm(H) x 512mm(D) |
| Weight | 29.4Kg |
| Ambient Temperature | |
| Operating | +5C ~ +40C |
| Storage | 0C ~ +60C |
| Humidity | |
| Operating | 20% ~ 90% |
| Storage | 10% ~ 90% |
| X-Radiation | MPR-II, DHHS, PTB, D.N.S.F. |
| Regulatory Compliance | FCC-B, UL, FTZ-B, CSA, BZT-B, CE, TUV, VCCI, GS, ISO-9241-3, BCIQ, EMC, MPR-II, TCO95 |

ACERVIEW

Vivid **COLOR MONITOR**



M o n i t o r

PART NO.:49.745 01.001
DOC NO.:9805A-MN211CT0695