FCC ID.: ARSCM9850

EXHIBIT 5

User's Manual

User's Manual



Spectrum Series

9VIr/9VIr+ 9VIrA/9IrA+

USER MANUAL

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Thank you very much for choosing the AOC Color Monitor.

We recommend that you take a few minutes to read carefully through this brief but comprehensive manual before I nstalling and switching on the monitor. Please keep this manual in a safe place for you future reference.

Plug & Play Drivers for the AOC Spectrum Series Monitors are available at: www.epius.com

Before operating the monitor please read this manual thoroughly. This manual should be retained for future reference.

FCC Class B Radio Frequency Interference Statement WARNING: (FOR FCC CERTIFIED MODELS)

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 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:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE

- The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- 2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
- The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

As an ENERGY STAR® Partner Envision Peripherals, INC. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

WARNING:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable cart, stand, or table. If the
 monitor falls, it can injure a person and cause serious damage to the
 appliance. Use only a cart or stand recommended by the manufacturer or
 sold with the monitor. If you mount the monitor on a wall or shelf, use a
 mounting kit approved by the manufacturer and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 2.5A.

BEFORE YOU OPERATE THE MONITOR

FEATURES

- 48cm(19") Color Monitor
- · Crisp, Clear Display for Windows
- Supports Resolutions up to 1600 × 1200
- Power Management
- Ergonomic Design (MPRII Approved)
- Space Saving, Compact Case Design

CHECKING THE CONTENTS OF THE MONITOR PACKAGE

The product package should include the following items:

- 1. Monitor
- 2. Owner's Manual
- Power Cord
- Swivel Base
- 5. Audio Cable/DC Power Cable (For 9VIrA/9VIrA+ only)

INSTALLATION INSTRUCTIONS

SWIVEL BASE

To attach the swivel base to the monitor, do the following:

- Carefully turn the monitor on its side or upside down. (see figure 1)
- Locate the cavities at the bottom front of the monitor.
- Insert the pegs on the swivel base into these cavities. Push the swivel base forward until the swivel base locks in place.
- To remove the swivel base, hold the bottom of the swivel base, then push
 it out.

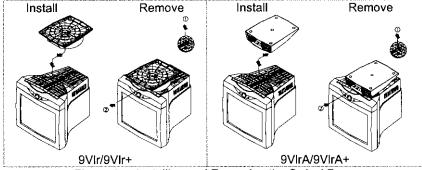


Figure 1 Installing and Removing the Swivel Base

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[Note]:

The Audio Port not available till now.

POWERCORD

Power Source:

- 1. Make sure the power cord is the correct type that required in your area.
- This monitor has a universal power supply that allows operation in either 100/120V AC or 220/240V AC voltage area (No user adjustment is required.)
- 3. Connect the power cord into your monitor's power input socket, and then plug the other end into a 3-pin AC power outlet. The power cord may be connected to either a wall power outlet or the power outlet socket on your PC, depending on the type of power cord supplied with your monitor.

CONTROLS AND CONNECTORS

VIDEO CABLE

Connecting the Video Cable: the monitor comes with a built-in video cable. Plug the signal cable's 15-pin connector into the computer's video port and tighten the two screws on the cable connector. (see figure 2)

Connecting the Power Cord: Plug the power cord into the monitor's AC power socket. Then plug the power cord into a grounded AC outlet or UL-approved power strip or the power output socket on your PC.

Caution: If the AC outlet is not grounded (with three holes), install the proper grounding adapter (not supplied).

Connecting the Audio Cable (9VIrA/9VIrA+ only): Plug audio cable between the computer multi-media (or sound) card's audio output and monitor's audio input.

Connecting the DC Power Cable (9VirA/9VirA+ only): Plug DC power cable between monitor to swivel base for audio power

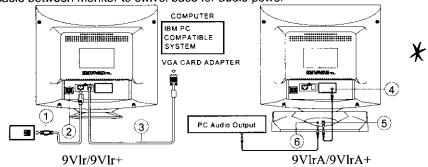


Figure 2 Connecting Cables

1.	Power Cord	4.	DC Intput
2.	Signal Cable	5.	Audio In
3.	DC Output		

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[Note]:

The Audio Port not available till now.

OPERATING INSTRUCTIONS

GENERAL INSTRUCTIONS

The power switch is located at rear side base of the monitor (See Figure 2). Press the power switch to turn the monitor on or off. The other control knobs are located at the base of the monitor (See Figure 3). By changing these settings, the picture can be adjusted to your personal preferences.

- · The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- To turn the monitor on, press the POWER switch to ON position. The power indicator will light up.
- Your monitor features a unique quick switch system which provides a
 picture within seconds after the monitor is switched on.

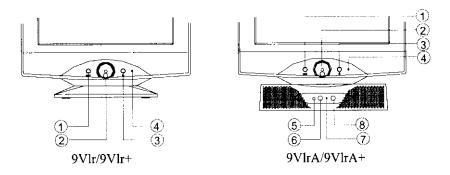


Figure 3 External Control Knob

EXTERNAL CONTROLS

	9V1r/9VIr+		9VirA/9VirA+		
1	OSD Exit	1.	OSD Exit	5.	Earphone Jack
2	Shuttle Knob	2.	Shuttle Knob	6.	Volume
3.	Standby Power	3.	Standby Power	7.	Audio Power Indicator
7595	ON/OFF Switch		ON/OFF Switch		
4.	Power Indicator	4.	Power Indicator	8.	Audio Power ON/OFF

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[Note]:

The Audio Port not available till now.

FRONT PANEL CONTROL

Standby power key :

When pressed, the monitor enters the off mode, and the LED turns orange. Press again and hold to restore normal status.

Shuttle Knob :

The Shuttle Knob is used to control the monitor functions. Rotate to switch functions or adjust settings. Press to select or execute a function.

OSD Key:

The OSD Key is used to activate the OSD window, or to exit the OSD window and save the settings.

· Power Indicator:

Green - Power On mode.

Orange — Stand-by mode, Suspend mode, or Off mode.

SWIVEL BASE CONTROL (9VIrA/9VIrA+ ONLY):

Audio Power

ON or OFF Audio Power

• Power Indicator

Green - Audio Power ON.

Volume

Adjustable Audio volume.

NOTES

- Do not install the monitor in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, or excessive dust or mechanical vibration or shock.
- Save the original shipping carton and packing materials, as they will come in handy if you ever have to ship your monitor.
- For maximum protection, repackage your monitor as it was originally packed at the factory.
- To keep the monitor looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner, benzene, or abrasive cleaners, since these will damage the cabinet. As a safety precaution, always unplug the monitor before cleaning it.

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[Note]:

The Audio Port not available till now.

HOW TO ADJUST A SETTING

- Press the Shuttle Knob or OSD Key to make the OSD window appear. See figure 4.
- 2. Rotate the Shuttle Knob to select the desired function. See figure 4.
- 3. Press the Shuttle Knob again to select the function that you want to adjust.
- 4. Rotate the Shuttle Knob to change the settings of the current function.
- 5. When the OSD window is active, it shows the input signal timing. The "H" stands for the horizontal frequency and "V" for the vertical frequency.
- 6. To exit and save, either press the OSD Key, select the exit function, or leave the monitor alone for 10 seconds. If you want to adjust any other function, repeat steps 2-4.

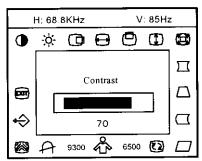


Figure 4 The OSD Message

ADJUSTING THE PICTURE

The description for function control LEDS

The descrip	The description for function contact 2220					
1.	CONTRAST	Adjust the picture contrast.				
2:Ó:-	BRIGHTNESS	Adjust the picture brightness.				
3.	H- CENTER	Adjust the horizontal position of the picture.				
4 🖯	H- SIZE	Adjust the picture's horizontal size.				
5 ①	V- CENTER	Adjust the vertical position of the picture.				

6.	0	V- SIZE	Adjust the picture's vertical size.
7.		ZOOM	Adjust the picture's horizontal and vertical size simultaneously.
8.	\prod	PINCUSHION	Adjust the pincushion and barrel
9.		TRAPEZOID	Adjust the picture's trapezoid distortion.
10.		PIN-BALANCE	Adjust to compensate the pincushion unbalance.
11		PARALLELOGRAM	Adjust the picture to be a rectangle.
12.		ROTATION	Adjust the picture tilt to horizontal position.
13.		6500°K/9300°K (COLOR TEMPERATURE)	The color temperature for 6500°K is x=0.313, y=0.329 and 9300°K is x=0.281, y=0.311. It presents two different color sets on the screen. You can select 9300°K or 6500°K by pressing the Shuttle Knob.
14.	% (*)	USER COLOR (Red / Blue)	If the 9300°K normal white or 6500°K warmer white do not satisfy your desire, properly adjust R . B GAIN controls to obtain your optimum whiteness level.
15.	4	DEGAUSS	If color impurity occurs when moving or swiveling the monitor, press the Shuttle Knob and degauss to fix the picture condition.
16,		MOIRE REDUCE	Moire is the result of interference between the phosphor layout and the video signal. In some cases, you may find the moire very noticeable. Press the Shuttle Knob to enter in the moire reduce setting. Please adjust the level to the optimum condition. Note: Too high of a setting will cause the picture to shake.
17.	♦	RECALL	Press RECALL to restore the monitor to factory settings.
18.	EXIT	EXIT	Close OSD window.

POWER MANAGEMENT FEATURE

The power management feature of this product complies with every power saving requirements of ENERGY STAR® and VESA DPMS when activated, it automatically reduces unnecessary power consumption of the monitor when your computer is not in use.

To use the feature, the monitor needs to be connected to a VESA DPMS computer. There are three power management modes available, these are described below. The required settings, including the timer setting, should be made by the computer.

Stand-by Mode

When the H-sync signal from the computer is off, the monitor enters into Stand-by Mode which reduces the power consumption to less than 15W. The screen becomes dark, and the power indicator turns to orange. From Stand-by Mode, the screen reappears instantaneously when the keyboard or the mouse is touched again.

Suspend Mode

When the V-sync signal from the computer is off, the monitor enters into Suspend Mode which reduces the power consumption to less than 15W. The screen becomes dark, and the power indicator turns to orange. From Suspend Mode, the screen reappears instantaneously when the keyboard or the mouse is touched again.

Active-off Mode

When both the H and V sync signals form the computer are off, the monitor enters into Active-off Mode which reduces the power consumption to less than 5W. The screen becomes dark, and the power indicator turns to orange. From Active-off Mode, the screen reappears instantaneously when the keyboard or the mouse is touched again.

 The power-saving mode can be indicated by the light-emitting diode (LED) on the front panel:

Mode		Signal			Power		
Midde	Cable	H-Sync	V-Sync	Video	Indicator	Consumption	
On*	Attached	Yes	Yes	Active	Green	≤ 130 W	
Stand-by	Attached	No	Yes	Blank	Orange	≤ 15 W	
Suspend	Attached	Yes	No	Blank	Orange	≤ 15 W	
Off	Attached	No	No	Blank	Orange	≤ 5W	

Note: The power consumption is calculated without audio power consumption at power saving status.

FEATURES

Green monitor

 The monitor has a power saving function that conforms to the VESA DPMS standard. This feature will only work if your PC is a green PC. This feature is similar to a screen saver, except that your monitor will turn it off instead of activating the screen saver.

To activate this feature in Windows® 98:

In Windows® 98, this feature can be activated and customized under the screen saver setting of the display properties.

- Right click on the desktop and choose Properties.
- Click on the tab that says Screen Saver. If your system supports Green PC, there will be a section entitled "Energy Saving Features of Monitor." If there isn't a section like that, then your PC does not support Green Monitor. The monitor will behave just like a normal monitor, so you will have to turn it off manually to save energy.
- In the "Energy Saving Features of Monitor" sections are two boxes, Standby and Shut off. To activate either one, click the box next to each one.
- 4. You can specify the amount of inactive time before your monitor enters standby mode or shuts off.

PLUG AND PLAY

Plug & Play DDC1/2B Feature

This monitor is equipped with VESA DDC1/2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities. The communication channel is defined in two levels, DDC1 and DDC2B.

The DDC1 is a unidirectional data channel from the display to the host that continuously transmits EDID information. The DDC2B is a bidirectional data channel based on the I²C protocol. The host can request EDID information over the DDC2B channel.

THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.

This monitor meets the Power Management standards as set by the Video Electronics Standards Association (VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video input signal present. When there is no video input signal this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

USING THE RIGHT POWER CORD:

The accessory power cord for the Northern American region is the wallet plug with NEMA 5-15 style and is UL listed and CSA labeled. The voltage rating for the power cord shall be 125 volts AC.

Supplied with units intended for connection to power outlet of personal computer: Please use a cord set consisting of a minimum No. 18 AWG, type SJT or SVT three conductors flexible cord. One end terminates with a grounding type attachment plug, rated 10A, 250V, CEE-22 male configuration. The other end terminates with a molded-on type connector body, rated 10A, 250V, having standard CEE-22 female configuration.

TECHNICAL SUPPORT (FAQ)

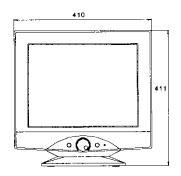
Problem & Question	Possible Solution
Power LED is not on	*Check if the Power Switch is in the ON
	position
	*Power Cord should be connected
No Plug & Play	*Check if the Video Card is Plug & Play
	compatible
	*Check if the Video Card is Plug & Play compatible
	*Check if the D-15 plug pin of Video Cable
	is bent
	*Make sure the AOC Monitor Drivers are
	installed
	(AOC Monitor Drivers are available at:
	www.epius.com)
No picture	*Computer Power Switch should be in the
	ON position
	*Computer Video Card should be snugly
	seated in its slot *The Signal Cable should be completely
	connected to the computer
	*Check the color of the Power LED
	indicator. If it is orange, then the monitor
	and the PC system are in power-saving
	mode. You need press your keyboard or
	move the mouse to reactivate the
	system.
Picture is fuzzy	*Adjust the Contrast and Brightness Controls.
Picture bounces or a wave	*Move electrical devices that may cause
pattern is present in the picture	electrical interference.
Monitor is stuck in "Power	*Make sure monitor's video cable is
Saving Mode"	properly connected to the computer.
	*Inspect monitor's video cable and make
ARTER CONTROL OF THE VICTOR OF	sure none of the pins are bent.
i in interior de la companya de la La companya de la co	*Make sure computer is operational by
	hitting the CAPS LOCK key on the
	keyboard while observing the CAPS
	LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK
	key.
Missing one of the primary	*Inspect the monitor's video cable and
colors (RED, GREEN, or	make sure that none of the pins are
BLUE)	bent.

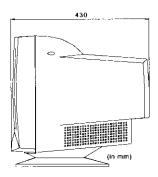
APPENDIX

SPECIFICATIONS

FCCID: AROCH 9850

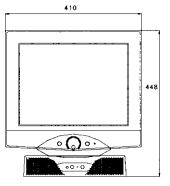
	CRT Size	48cm(19"), 90° deflection, 29mm neck,	
CRT	Viewable Image Size	4	
	Туре	0.27mm dot pitch.	
	Video	0.7Vpp, R,G,B Analog	
Input	Separate Sync.	TTL Level	
	H./V Sync.	Positive / Negative	
Scanning	H-Frequency	30kHz - 85kHz	
Frequency	V-Frequency	50-130Hz	
Max. Resolution		1600 x 1200	
Video Bandwidth		100MHz	
Factory Preset im User i Programm		10 9	
Power Source		Universal AC 100 - 240V, 50Hz / 60Hz	
Operating		0°C to 40°C ambient	
Humidity		10%to 85%relative, non-condensing	
Dimensions	Carton	574(W) × 537(H) × 594(D)mm	
9Vir/9Vir+:		460(W) × 466(H) × 470(D)mm	
9VIrA/9VIrA+: Monitor & Base			
Weight 9Vir/9Vir±: Unit (net)		20.0Kgs (Net)	
	Carton (gross)	23.8Kgs (Gross)	
9VirA/9VirA+: Unit (net) Carton (gross)		21.0Kgs (Net) 24.8Kgs (Gross)	
Signal Cable:	ACCONTRACTOR	Attached Mini D-sub 15 Male	

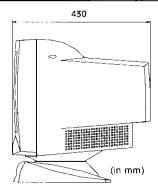




9Vir/9Vir+

	Switch	 Power On/Off switch Shuttle Knob Standby Power Switch OSD Key Volume(9VIrA/9VIrA+)
External Controls:	Functions	ContrastBrightnessH-CenterH-Size
		V-CenterV-SizeZOOMPincushion
		 Trapezoid Pin-Balance Parallelogram Rotation
		6500°K User Color 9300°K
		 Degauss Moire Reduce Recall Exit
Plug & Play		DDC1/2B
Power Management		EPA, VESA DPMS
Power Consumption	(Maximum)	130 Watts
Pre-set Display Area		346mm x 260mm
Audio Output (for 9VIrA/9VIrA+ only)		Rated Power 0.5W rms (Per channel)
Regulatory Compliance		UL, CSA, FDA, FCC, TÜV/GS, CE, MPR II TCO'95(for 9VIr+/9VIrA+ only)





9VIrA/9VIrA+

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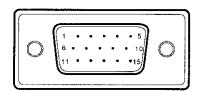
[Note]:

The Audio Port not available till now.

FACTORY PRESET TIMING TABLE

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY	VERTICAL FREQUENCY
IBM	720 × 400	31.47kHz	70Hz
VGA	640 × 480	31.47kHz	60Hz
VESA/75	640 × 480	37.5kHz	75Hz
VESA/85	640 × 480	43.3kHz	85Hz
VESA/75	800 × 600	46.875kHz	75Hz
VESA/85	800 × 600	53.67kHz	85Hz
VESA/75	1024 × 768	60.02kHz	75Hz
VESA/85	1024 × 768	68.6kHz	85Hz
VESA/60	1600 × 1200	75.0kHz	60Hz
VESA/75	1280 × 1024	80.0kHz	75Hz
VESA/75	1280 × 960	85.0kHz	85Hz

CONNECTOR PIN ASSIGNMENT



15 - Pin Color Display Signal Cable

PIN NO.	DESCRIPTION	PINNO.	DESCRIPTION
1.	Red	9.	NC
2.	Green	10.	Ground
3.	Blue	11.	Monitor Ground
4	Ground	12.	DDC-Serial Data
5.	Ground	13.	H-Sync
6.	R-Ground	14.	V-Sync / *V-Clk
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground	*	For DDC