ATTACHMENT E. USER' S MANUAL

USER'S GUIDE

MS-71FS

17 | Multi Scan Color Monitor

MODIS Co., Ltd.

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For Your Records

The serial number of this product is on the back of the monitor. You should note the serial number of this unit in the space provided and retain this booklet as a permanent record of your purchase to ald in identification in the event of theft or loss.

Name : Saview 71FS
Model Number : MS-71FS
Part Number : _____
Purchase Date : _____

Power Cord Safety Guidelines

Caution : Use a power cable that is properly grounded. Always use the AC cords listed below for each area :

USA .....UL
Canada.....CUL

In other areas, use AC cord which meets local safety standards.

Power Cord Safety Guidelines(continued)

AC PLUG CORD PRECAUTIONS FOR THE UNITED KINGDOM

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET THEN THE PLUG SHOULD BE CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO AN APPROPRIATE SOCKET.
If a new plug is to be fated, please observe the wiring code as shown below.
If in any doubt, please consult a qualified electrician.
WARNING: THIS APPLIANCE MUST BE EARTHED.
IMPORTANT: The wires in this mains lead are coloured in accordance: with the following code:

Green-and-Yellow:	**Earth**
Blue:	**Neutral**
Brown:	**Live**

If the coloured wires of the mains lead of this appliance do not corespond with the coloured markings identitying the terminals in your plug, proceed as follows:
The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.

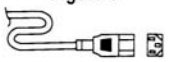
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord for this unit has been packed separately and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set.

The female receptacle of the cord set must meet CEE-22 requirements and will look like Figure 1 below:

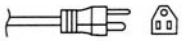
Figure 1



For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure 2) and is UL listed and CSA labelled. For units which are mounted on a desk or lable, type SVT or SJT cord sets may be used. For units which sit on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult Table A below for the selection criteria for power cords used in the United States and Canada.

Figure 2



For European Countries

In Europe you must use a cord set which is appropriate for the receptacles in your country.
The cord set is HAR-Certified, and a special mark that wilt appear on the outer sheath, or on the insulation of one of the inner conductors.

If you have any questions concerning which proper power cord to use, please consult with the dealer from whom you purchased your monitor.

Table A

Cord Type	Size of Conductors in Cord	Maximum Current Rating of Unit
SJT	18AWG	10Amps
	16AWG	12Amps
	14AWG	12Amps
SVT	18AWG	10Amps
	17AWG	12Amps

FCC Compliance Statement

FCC Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Information to the User

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of 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 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/television technician for help and for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful : "How to Identify and Resolve Radio-TV interference Problems. "This booklet is available from the U.S. Government printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

Safety Instructions

1. Read these instructions. Save these instructions for later use.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation;to ensure reliable operation of the product and to product it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface.

   This product should never be placed near or over a radiator or heat register, or in a built in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord does not exceed the extension cord ampere rating. Also make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to service personnel.
12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power cord or plug is damaged or frayed.
    b. If liquid has been spilled into the product.
    c. If the product has been exposed to rain or water.
    d. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since 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.
    e. If the product has been dropped or the cabinet has been damaged.
13. Use only the proper type of power supply cord set (provided in your manual accessories box) for this unit. It should be a detachable type:UL listed/CSA certified, type SVT/SJT, rated as 10A 125V minimum, VDE approved or its equivalent.
14. The Socket-Outlet is to be installed near the equipment and is easily accessible.

Getting Started

Congratulations on your purchase of a MODIS Saview71FS high performance color monitor.

■ Monitor Features

- 17″(16.1″/40.9cm viewable diagonal), Flat DIAMONDTRON CRT. with anti-reflection, anti-static, anti-glare coating.
- Aperture Grille 0.25mm
- Multi-scanning at horizontal frequencies of 30~95KHz, vertical frequencies of 50~160Hz.
- Windows®95 and 98 plug & play(VESA® DDC 1/2B) Compatibility.
- The monitor is compatible with Standard IBM VGA, extended VGA, Super VGA, IBM XGA, XGA/2, as well as VESA®, and high resolution video mode up to 1600(H) × 1200(V).
- Power management system Conforms to VESA®DPMS™ standard and controls energy consumption when the monitor is not in use.
- Microprocessor-based design with digital On Screen Display user controls.
- Compatible with Apple® Macintosh™.
- Universal power supply.
- All plastic parts are recyclable. All materials are strictly selected to ensure ease of maintenance, inspection, and disposal.

Getting Started

■ Precautions

- For best viewing conditions sit at least 16.1 ' from the monitor.
- AVOID TOUCHING THE SCREEN WITH YOUR FINGERS. Oils from the skin are difficult to remove.
- NEVER REMOVE THE REAR COVER. The monitor contains high voltage parts. You may suffer serious injury if you touch these parts.
- Avoid exposing the monitor to direct sunlight or another heat source. The monitor should be facing away from direct sunlight to reduce glare.
- Choose a well ventilated area to position your monitor. Do not place anything on the monitor that prevents adequate dissipation of heat.
- Ensure the area around the monitor is clean and free of moisture.
- Keep the monitor away from magnets, motors transformers, speakers, and televisions.
- Do not place heavy objects on the monitor video cable, or power cord.
- If smoke, abnormal noise, or strange odor is present immediately switch the monitor off and call your dealer or MODIS. It is dangerous to continue using the monitor.
- Always handle your monitor with care when moving it.

■ Cleaning the Monitor

- MAKE SURE THE MONITOR IS TURNED OFF
- To clean the screen:
  1. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
  2. If still not clean, apply a small amount of non-ammonia, non-alchohol based glass cleaner onto a clean, soft, lint-free cloth and wipe the screen.
- Never spray or pour any liquid directly onto the screen or case.
- To clean the case, use the same procedure as cleaning the screen.
- Avoid spilling liquids of any kind on the monitor.

DISCLAIMER

MODIS does not recommend the use of any ammonia or alchohol-based cleaners on the monitor screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the monitor. MODIS will not be liable for damage resulting from the use of any ammonia or alchohol-based cleaners.

Getting Started

■ Quick Installation

Before Installation

- Package Contents check list

  Before operating this monitor, please make sure that all the items listed below are present in your **package :**

Saview71FS Color monitor

AC Power Cord

User's manual

Software diskette which includes -modis saview® monitor installation file (Modis.inf) windows® 95/98 (required for plug & play)

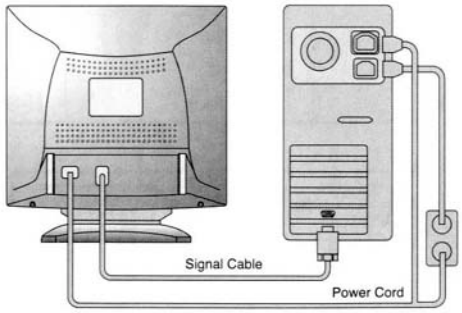
Installation

1. Power OFF

Switch OFF the power on the Saview71FS and your computer.
The push-button power switch is located on the lower right corner of the Saview71FS. Push the button a few times, the position which offers more resistance will be the OFF position.

2. Connect Power Cord

Connect the female end of the power cord to the power input receptacle on the back panel of the Saview71FS. Then, plug the male end of the power cord into an AC outlet.



Getting Started

3. Connect Signal Cable

Attach the loose end of the signal cable to the graphics card adapter. Be cautious in inserting the cable properly into the graphics card adapter. If the cable does not seem to fit it may be facing the wrong direction. Turn the cable over and try to match the shape of the connector with that of the graphics adapter.

4. Signal Cable Connection.

D-SUB Signal Input

Pin-No	Description		
	Figure 1		Figure 2
	Separate	Composite	Apple Macintosh
1	Red	Red	Gnd-R
2	Green	Green	Red
3	Blue	Blue	H/V Sync
4	GND	GND	Sense 0
5	DDC Return	DDC Return	Green
6	GND-R	GND-R	GND-G
7	GND-G	GND-G	Sense 1
8	GND-B	GND-B	Not Used
9	No Connection	No Connection	Blue
10	Sync-GND	Sync-GND	Sense 2
11	GND	GND	GND
12	DDC Data	DDC Data	V-Sync
13	H-Sync	H/V-Sync	GND-B
14	V-Sync	Not Used	GND
15	DDC Clock	DDC Clock	H-Sync

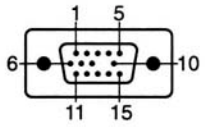


Figure 1

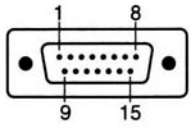


Figure 2

Getting Started

5. Power On

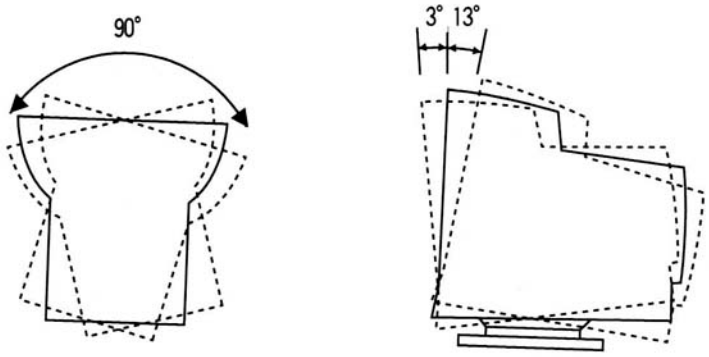
Switch ON the power to both the Saview71FS and your computer. There will be a short delay before the display appears.

6. Adjust the Picture

Adjust the controls, if necessary, to obtain the best display. A description of the controls and functions may be found in the next chapter.

7. Adjust the Tilt & Swivel Base

Adjust the tilt and swivel base for your maximum viewing comfort.

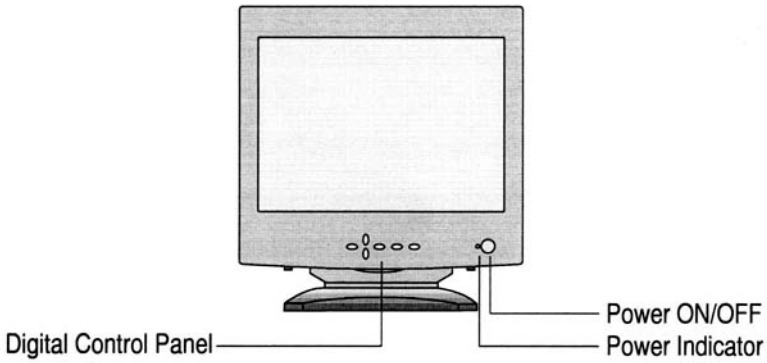


NOTE : To minimize eye fatigue, we suggest you allow a minimum viewing distance of 16 inches.

Operation

To adjust the monitor, follow the numbered steps in sequence as shown below.

■ Front Control Panel



1. Power ON/OFF Switch

Press this button to turn the power ON or OFF. There will be a short delay bofore the display appears.

2. Power Indicator

This LED indicator illuminates when the power is switched ON and the power cord is properly attached. In suspend mode the indicator will flash in one second intervals. In the off mode, the indicator will flash in two second intervals.

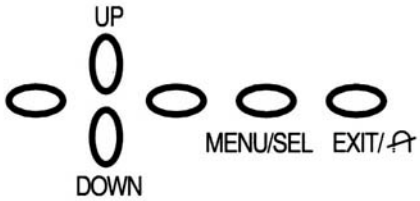
MODE	ON	STAND BY	SUSPEND	OFF
Power Indicator	Green	Amber	Green/Amber Blink 0.5sec	Green/Amber Blink 1.0sec

Operation

■ Digital Control Panel

The digital control panel is located at the bottom of your color monitor. If you are not satisfied with the factory size position settings, use these controls to program those you prefer in each resolution.

Then, these adjusted settings are kept in memory even if you change resolution or turn off the monitor.



Digital Control Panel

1. Key Function

① MENU / SEL

This button will enable the On Screen Display(OSD-instructions for using the OSD are described in the following section).

This button is also used to select the function in the Main Menu or to save the setting in the Sub Menu.

② Exit / (Degauss)

This button manually degausses the CRT. It may be used if the display becomes discolored or washed out in appearance. This button can also be used to exit from the OSD.

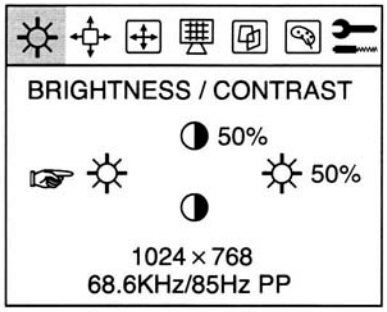
③ Up / Down

Use this button to move Up or Down the OSD selection menu and adjust the attribute of the monitor while in OSD mode. Pressing this button out of the OSD menu allows you to increase the level of contrast of the display screen.

④ + / -

Use this button to move right or left the OSD selection menu and adjust the attribute of the monitor while in OSD mode. Pressing this button out of the OSD menu allows you to decrease the level of contrast of the display screen.

Operation



▲▼buttons(Adjust the Contrast)
+/-buttons(Adjust the Brightness) ⇨EXIT/

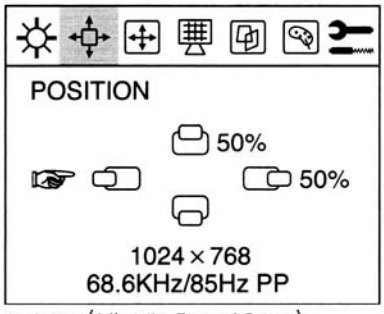
1. BRIGHTNESS / CONTRAST

BRIGHTNESS

Adjusts the luminosity level of the display.

CONTRAST

Adjusts the black level of the display.



▲▼buttons(Adjust the Top and Bottom)
+/-buttons(Adjust the Right and Left) ⇨EXIT/

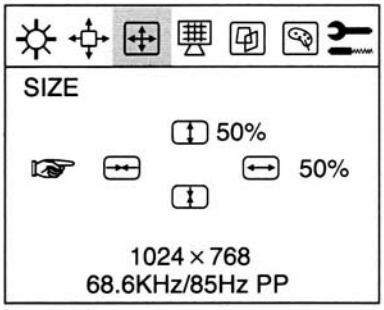
2. POSITION

H-POSITION(VERTICAL POSITION)

Select this icon and then use the + ( ) and -( ) buttons to center the image horizontally on the screen.

V-POSITION(VERTICAL POSITION)

Select this icon and then use the ▲ ( ) and ▼( ) buttons to center the image vertically on the screen.



▲▼buttons(Adjust the V-SIZE)
+/-buttons(Adjust the H-SIZE) ⇨EXIT/

3. SIZE

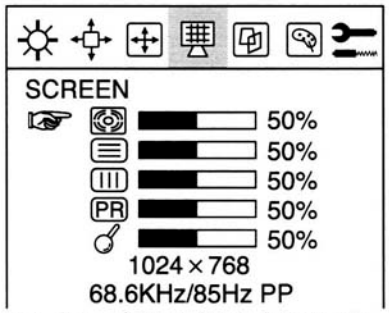
H-SIZE(HORIZONTAL SIZE)

Select this icon and then use the +( ) and -( ) buttons to expand or decrease the image width to fill the screen horizontally.

V-SIZE(VERTICAL SIZE)

Select this icon and then use the ▲( ) and ▼( ) buttons to adjuast the image height to vertically fill the screen .

Operation



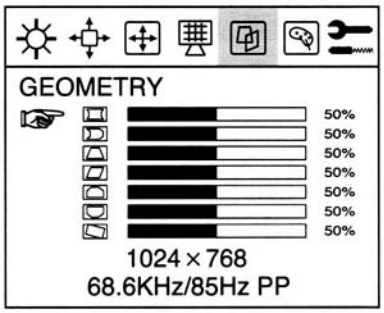
4. SCREEN

MOIRE
Select this icon, then press the +and- buttons to be disappeared the moire.

CONVERGENCE
Select this icon, then use the ▲and▼ buttons to scroll to the desired convergence use the MENU/SEL button to select either the horizontal vertical, Dy mamic convergence.

PURITY
Select this icon, then press the +and- buttons to be disapeared the purity.

ZOOM
Select this icon then press the +and- buttons to make the image zoomed in -and- out.



5. GEOMETRY

SIDE-PIN(PINCUSHION) : Select this icon, then use the +and- buttons to straighten the sides of the image by Pulling them in opposing directions.

PIN BALANCE : Select this icon, then use the +and- buttons to straighten the sides of the image by pulling them in the corresponding direction.

TRAPEZOID : Select this icon, then use the +and- buttons to even the widths of the top and bottom of the display (pulling the sides in opposite directions).

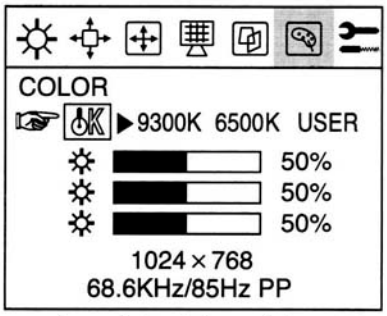
PARALLELOGRAM : Select this icon, then use the +and- buttons to center the top and bottom of the display (pulling the sides in the corresponding direction).

TOP CORNER PIN : Select this icon, then use the +and- buttons to straighten the top corner of the image by pulling them in opposing directions.

BOTTOM CORNER PIN : Select this icon, then use the +and- buttons to straighten the Bottom corner of the image by pulling them in opposing directions.

ROTATION : Use the +and- buttons to rotate the image until the sides of the image are parallel to the edge of the bezel.

Operation



6. COLOR

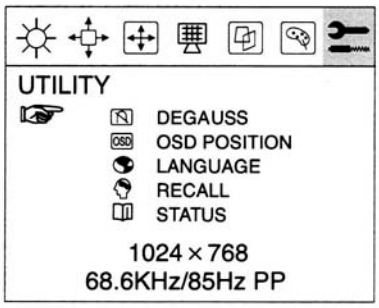
COLOR TEMP (TEMPERATURE) & COLOR TUNING

Select this icon, then use the +and- buttons to scroll to the desired color temperature. Use the MENU/SEL button to select either the 9300K, 6500K or USER, for a custom setting.

RED-Select "color 4:USER," then use the ▲ and ▼ button to scroll up and down the RGB menu to R(Red). Use the + and - buttons to adjust the red level of the display.

GREEN-Select "color 4:USER," then use the ▲ and ▼ button to scroll up and down the RGB menu to G(Green). Use the + and - buttons to adjust the green level of the display.

BULE-Select "color 4:USER," then use the ▲ and ▼ button to scroll up and down the RGB menu to B(Blue). Use the + and - buttons to adjust the blue level of the display.



7. UTILITY

DEGAUSS-Demagnetizes the CRT when the display becomes discolored or washed out in appearance. The monitor will auto matically degauss on startup if the monitor has been off for at least 20 minutes.

OSD POSITION - Select this control, then use the MENU/SEL button to select in which direction to move the OSD menu. Use the +/- and ▲ ▼ buttons to move the OSD menu.

LANGUAGE - Select this control, then use the +/- and ▲▼ buttons to choose from:English, German(Deutsch), Spanish(Español), Italian (Italiano), or French(Français)

RECALL - Resets the display settings to the original factory preset values. Press and hold down the MENU/SEL button until the progress bar disappears.

STATUS-Select this icon to display the monitor offers 13 pre-programmed settings chart.

Technical Data

■ Specifications

CRT	Type	17″(16.1″, 40.9 Cm viewable diagonal).
		Aperture Grille 0.25mm
	Phosphor	RGB, medium-short persistence
	Glass surlace	DARK tint
		Standard tight transmission rate = 46.0%
Input Signal	Video	RGB analog(0.7 Vp-p. 75ohms)
	Sync	H/V separate(TTL), Composite(TTL)
		Sync-on-Green(0.3Vp-p)
		f_h : 30-95KHz, f_v : 50-160Hz
Compatibility	PC	IBM® XT, AT, 386, 486, Pentium® or PS/2 and compatibles (from VGA up to 1600 × 1200 non-interlaced)
	Machintosh®	Macintosh Ⅱ family, LC, LC Ⅱ, Quadra and Power Machintosh
Connectors	Video-Cable	15-pin high density(H.D.I mini D-Sub, BNC × 5
	Power	3-pin plug(CEE22)
Maximum Refresh RATES		640 × 480 / 85Hz NI
		800 × 600 / 85Hz NI
		1024 × 768 / 85Hz NI
		1280 × 1024 / 75Hz NI
		1600 × 1200 / 75Hz NI
Power	Voltage	AC 100 to 240V
	Consumption	AC 140 watts(typical)
Video in	Bandwidth	205MHz(max)

Technical Data

■ Specifications

Display Area	Factory setting	315mm(H) × 236mm(V)typical
Operating Conditions	Temperature	41° F to 95° F(5℃ to 35℃)
	Humidity	5% to 90% (no condensation)
	Altitude	To 10,000 feet
Dimensions	Physical	410mm(W) × 426mm(H) × 430mm(D) 16.1″(W) × 16.8″(H) × 18.1″(D)
	Packing	482mm(W) × 498mm(H) × 545mm(D) 18.9″(W) × 19.6″(H) × 21.4″(D)
Swivel Angles	Rotation left	45°
	Rotation right	45°
	Tilt up	13°
	Tilt down	3°
Weight	Net	18kg(38.5lbs)
	Gross	20.4kg(44.97lbs)
Regulations		UL, CUL, DHHS, FCC B, CE, MPR Ⅱ (option)
Power savings LED modies	On	green 100W typical
	Stand By	amber < 8W
	Suspend	green/amber < 8W
	Off	green/amber < 5W
Other Features		Compatible with the display data channel standards DDC™1 and DDC™2B. Plug &Play+

Technical Data

■ Timing Guide

The 17″ color monitor is a multi-frequency monitor. It operates at horizontal frequencies between 30KHz and 95 KHz, vertical frequencies between 50Hz and 160Hz. Because of its microprocessor-based design, it offers auto-synchronization and auto-sizing capabilities.
This monitor offers 13 pre-programmed settings as listed in the table below.

TABLE

Preset		Resolution		Frequency		Polarity	
		Horizontal	Vertical	Horizontal	Vertical	H	V
VGA	M1	720	400	31.5KHz	70Hz	-	+
VGA	M2	640	480	31.5KHz	60Hz	-	-
VESA	M3	640	480	37.5KHz	75Hz	-	-
	M4	640	480	43.3KHz	85Hz	-	-
	M5	800	600	46.9KHz	75Hz	+	+
MAC	M6	832	624	49.7KHz	75Hz	-	-
VESA	M7	800	600	53.7KHz	85Hz	+	+
	M8	1024	768	60.2KHz	75Hz	+	+
	M9	1152	864	67.5KHz	75Hz	+	+
	M10	1024	768	68.6KHz	85Hz	+	+
	M11	1280	1024	79.9KHz	75Hz	+	+
	M12	1280	1024	91.1KHz	85Hz	+	+
	M13	1600	1200	93.7KHz	75Hz	+	+

* In addition to 13 factory modes, there are 20 additional user modes.
  If more than 20 modes are inputted, it will be overrided in accordance with saving order of additional modes.

* In case of using Macintosh, you must need Mac adapter.

Trouble Shooting

SYMPTOM	SOULUTION
The monitor is switched on, but the power LED Indicator is not lit and there is no display on the screen.	Check all the power connections and make sure they are secure. If the monitor is plugged into a surge protector, make sure that the surge protector is switched on.
Power LED indicator is green and lit, but there is no display on the screen.	Check all the signal cable connections and make sure that they are secure. Turn the contrast and brightness controls full clockwise. If you see a faint gray color appearing on the screen, the monitor is functioning properly but not receiving any signal from the video card.
Why do I hear a "humming" sound when I first switch on the monitor?	The sound you hear indicates that the demagnetizing circuit is activated. Every time the monitor is switched on, it will go through the degaussing process which helps eliminate any purity problems.
How do I change the resolution the monitor displays?	The frequency and resolution displayed on a monitor is controlled by the video card and your application software. The monitor simply responds to the signal it receives from the video card and is not able to change the resolution on its own. Most video card manufacturers provide software drivers and utilities that allow you to use different resolutions for different applications. Please consult your video card manual or dealer for more information.

QUESTION	ANSWER
How do I change the frequency or refresh rate the monitor uses?	The refresh rate is controlled by the video card. Most video cards provide a software utility or hardware DIP switches that allows you to change the frequency used for each resolution.
What is the maximum refresh rate for each of the resolutions?	Maximum refresh rates depend on the video card support. As far as monitor specification limitations are concerned, they are approximately: 120Hz at 640 x 480 120Hz at 800 x 600 100Hz at 1024 x 768 76Hz at 1280 x 1024 75Hz at 1600 x 1200
The monitor is "plug & play", so why do I still need to run the graphics card utility to make adjustments to the screen refresh rate for changing resolutions?	In order to fully utilize the plug & play capability, the host computer must be equipped with a plug& play(VESADDC1/2B) compatible video card and a plug & play compatible operating system(e.g. Windows® 95)or utility program that automatically enables the plug & paly function.

Trouble Shooting

QUESTION	ANSWER
Why is my monitor called a "FST"?	Your Saview71FS monitor uses what is known as "Flat Square Technology". Even though the screen is not completely flat, it does offer an almost two-fold improvement over conventional spherically shaped CRTs.
What are the benefits and uses of a microprocessor?	The microprocessor allows precise screen size control of the image for several different modes. Normally, the image size will vary when changing between different resolutions. With the microprocessor, the monitor is able to remember the size for each different mode and recall them automatically.
The display does not appear to be level.	The earth' s magnetic field may be interfering with the magnetic field generated by the monitor causing a slight rotation of the image. The higher the performance of a monitor, the more susceptible will the monitor be to such interference. To get the best alignment, orient the monitor so that the face of the screen faces east, and use the Rotation control located on the front panel.
What can I do to reduce the amount of pincushion or hourglass effect I see on the sides of my display?	A slight amount of pincushion will be normal for the display however, an excessive amount is not allowable . To correct for this distortion, use the Pincushion control located on the front panel. In general, you should expect to see less than 3/16" pincushion when measured with the naked eye.
Why do the characters in the corner of the screen look fuzzier than the center?	One of the limitations of a CRT screen is that the focus is impossible to be uniform across the entire area. In general, a monitor is adjusted so that the focus is best in an area around the center, in which case the overall focus is optimized. However, the image in the corner should always be readable.
I see what appears to be a second image or "ghost" on the screen. How can I correct this?	The ghosting may be due to a reflection in the signal. This usually occurs if an extension signal cable is installed or if the signal cable is not fastened to the back of the video card.