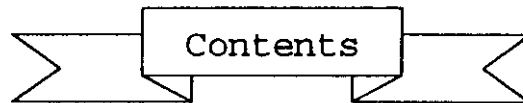


APPENDIX C:

USER'S MANUAL



Contents

REGISTRATION CARD

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Product Package.....	2
Setup	3
Controls and Adjustments.....	5
Timing Guide	9
Specifications.....	10

Note:

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 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/television technician for help.

Notice 1:

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2:

-
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 protect 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

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.
 - f Use of special cable (shielded interface cable with ferrite bead)
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



Korea Data System Co., Ltd. has established and applies a quality system for Design, Development, Production and Servicing for Monitors. Proof has been furnished that the

1. General information

Congratulations on selecting this high resolution multi-scan color monitor.

This high performance display contains the latest technology of flat

screen design and micro-processor control. This monitor has been equipped with both automatic and manual adjustments.

The automatic controls are factory preset and feature automatic factory frequency scanning.

The manual controls feature use digital adjustments to personalize the display in various applications.

The ergonomic characteristics of the antiglare flat screen, high refresh rates, and tilt swivel base allow comfortable usage when operating for a long period of time in high resolutions.

This operating manual describes the functions and features in more

detail so that you may obtain the maximum performance of your monitor.

2. Features

- Multi-scanning at horizontal frequencies of 30KHz to 95KHz, vertical frequencies of 50Hz to 120Hz
- 19 inch(18" viewable) FST(Flat Square Technology) picture tube
 - with ARASC/ARECS high-definition, anti-glare coating
- 0.26mm fine dot pitch
- Microprocessor-based design with digital controls
- Windows® 95 plug and play(VESA® DDC2B)
- 11 Preset modes
- Overscan capability for increased viewable area
- Compatible with standard IBM VGA, extended VGA, Super VGA, IBM XGA, XGA/2, CAD/CAM Graphic as well as all VESA® ergonomic standards
- Compatible with Apple® Macintosh™
- Universal power supply
- MPR II compliant, TCO95

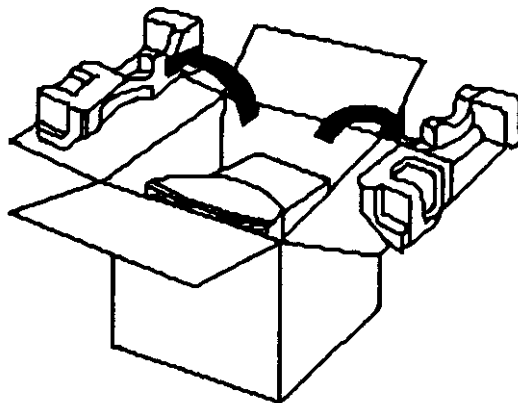
Determine the most convenient location for your monitor.
Make sure that you have enough room to install cables and
connect the monitor to the system unit and power supply.

Open the shipping carton and check the contents of the package.
The package should include the following items:

- * 19" Color Monitor
- * AC Power Cord
- * Signal Cable
- * Owner's Manual

Note : If any item(s) are missing or damaged, contact your dealer
immediately.

2. Remove the monitor from its shipping carton(see figure 1).
Save the carton and packaging materials in case you need to
relocate the monitor.



Setting up your monitor is easy. All you have to do is make a few simple connections and adjustments. The procedure is as follows:

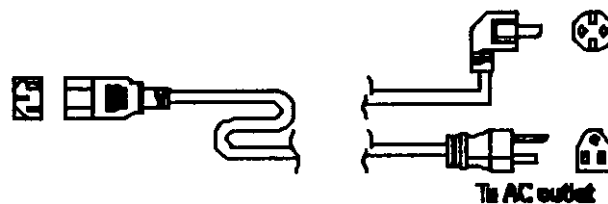
1. Start up

Switch the power off to both your monitor and computer. The location of the power switch is on the lower right hand corner of the monitor.

2. Power cable Connection.

Connect the female end of the power cable to the power input on the back of the monitor. Next, plug the male cable to the wall outlet for power.

To power input of monitor.



3. Signal cable connection

Connect the 15 pin signal cable to the PC. Lock both screws to ensure grounding.



D type 15pin connector

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	Video red	9.	N. C
2.	Video green	10.	Ground
3.	Video blue	11.	Ground
4.	Ground	12.	SDA
5.	Ground	13.	Hor-Sync
6.	Video red ground	14.	Ver-Sync
7.	Video green ground	15.	SCL

4. Power ON

Switch ON the power to both your color monitor and computer.

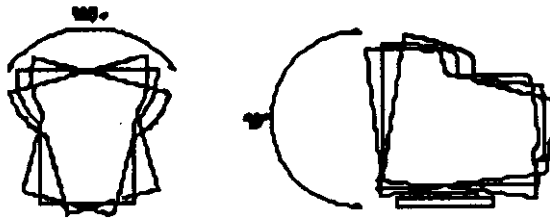
5. Adjusting the Picture

Adjust the controls, if necessary, to get the best picture.

A description of the functions of the controls may be found in the next section.

6. Adjusting the Tilt-Swivel Base

The tilt-swivel base can be adjusted for your maximum viewing comfort, it can be adjusted through angles of 120° horizontally and 16° vertically.



Note:

Due to the sensitivity of this monitor to earth's magnetic field, you may experience minor irregularities in the display if you swivel the monitor through more than 120° while the monitor is ON. If such behavior occurs, please turn the monitor OFF and ON again. The display should return to normal.

7. Setup of the Video Circuitry

To use the full potential of this product, it is necessary to first set the video circuitry of the computer according to the maximum capabilities of this monitor.

This can be expressed in any of the following ways:

- 1600 × 1200 75Hz
- 1280 × 1024 85Hz

There are a few switches that are located on your monitor.
The power indicator and adjustable controls allows the user to
maximize the display for individual preferences.
The description of these functions are as follows :

Front Panel Controls

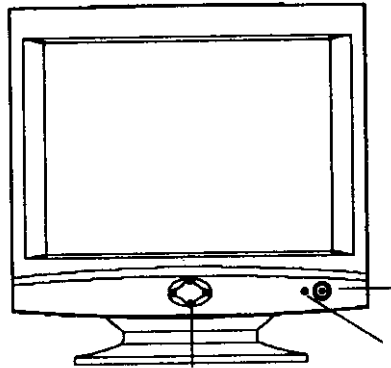


Figure 5

1. Power ON/OFF Switch

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

2. Power Indicator

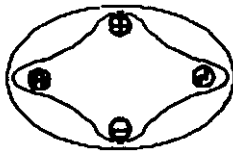
This power indicator illuminates when the power is switched
ON

MODE	ON	STAND BY	SUSPEND	OFF
Power Indicator	Green	Amber	Green/Amber	Green/Amber

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



KEY FUNCTION

1. ENTER

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. DOWN











Use this button to move 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. UP

Use this button to move up the OSD selection menu and adjust

OSD/MAIN MENU

1. CONTRAST 
Selecting this function allows you to make adjustments to the level of contrast of the display screen.
2. BRIGHTNESS 
Selecting this function allows you to make adjustments to the brightness level of the display screen.
3. ZOOM 
Select this function, then use the "+" and "-" buttons to zoom IN/OUT the image on the screen.
4. H-POSITION(HORIZONTAL POSITION) 
Select this function, then use the + and - buttons to center the image horizontally on the display screen.
5. H-SIZE(HORIZONTAL SIZE) 
Select this function, then use the + and - buttons to expand or decrease the image to horizontally fill the display screen.
6. V-POSITION(VERTICAL POSITION) 
Select this function, then use the + and - buttons to center the image vertically on the display screen.
7. V-SIZE(VERTICAL SIZE) 
Select this function, then use the + and - buttons to expand or decrease the image to vertically fill the display screen.
8. PINCUSHION 
Select this function, then use the + and - buttons to straighten the sides of the image.
9. TRAPEZOID 
Select this function, then use the + and - buttons to straighten the sides of the image.
10. ROTATION 
Select this function, then use the + and - buttons to rotate the image until the sides of the image are parallel to the edge of the bezel.
11. MOIRE
• Select this function, then press the + and - buttons to be disappeared the horizontal or vertical moire.

12. BNC

Select this function, then use the "+" and "-" buttons to select the signal from the D-SUB or BNC connector

13. COLOR TEMP (TEMPERATURE) & COLOR TUNING

Select this function, then choose one item among 9300°K, 6500°K and with low temperatures the image turns reddish and with higher temperatures bluish.

14. OSD POSITION

Select the function, then use the + and - buttons to move OSD window horizontally or vertically

15. MULTI LANGUAGE

Select the function, then use the + and - buttons to select the language you want to appear on the OSD'S.

16. RECALL

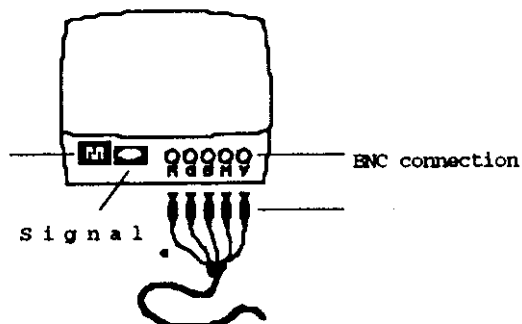
Select this function, then press and hold the [M] button, continue to depress this button until the progress bar disappears.

17. POWER CONNECTOR

This receptacle accepts the female end connector of the supplied power cord. Attach the power cord to this receptacle, then plug it into a properly grounded AC outlet to supply power to the monitor.

18. SIGNAL CABLE

Connect the end of the signal cable to the VGA connector located



The 19" color monitor is a multi-frequency monitor. It operates at horizontal frequencies between 30KHz and 95KHz, vertical frequencies between 50 Hz and 120 Hz. Because of its microprocessor-based design, it offers auto-synchronization and auto-sizing capabilities. This monitor offers 11 pre-programmed

Preset	Resolution	Frequency H (KHz)	Frequency V (Hz)	Polarity	Interaced
M 1	720×400 / VGA	31.5	70	- / +	NO
M 2	640×480 / VGA	31.5	60	- / -	NO
M 3	640×480 / VGA	37.5	75	- / -	NO
M 4	640×480 / VESA	43.5	85	- / -	NO
M 5	800×600 / VESA	46.9	75	+ / +	NO
M 6	800×600 / VESA	53.7	85	+ / +	NO
M 9	1024×768 / VESA	60.0	75	+ / +	NO
M 10	1024×768 / VESA	68.7	85	+ / +	NO
M 11	1280×1024 / VESA	80.0	75	+ / +	NO
M 12	1280×1024 / VESA	91.1	85	+ / +	NO

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M 4	640×480 / VESA	43.5	85	- / -	NO
M 5	800×600 / VESA	46.9	75	+ / +	NO
M 6	800×600 / VESA	53.7	85	+ / +	NO
M 9	1024×768 / VESA	60.0	75	+ / +	NO
M 10	1024×768 / VESA	68.7	85	+ / +	NO
M 11	1280×1024 / VESA	80.0	75	+ / +	NO
M 12	1280×1024 / VESA	91.1	85	+ / +	NO

Picture tube	19" (18" viewable) tinted, 0.26mm dot pitch ARASC coated, anti - glare advanced coated FST with Invar
	shadow mask.
Resolution	1600 (H) × 1200 (V) Non-interlaced (addressable)
Maximum Dot Clock	200MHz at -3 dB (nominal)
Video input	Analog, positive going signal(0.7V p-p)
Horizontal input	TTL, positive or negative going pulse(2.4-5V p-p)
Vertical input	TTL, positive or negative going pulse(2.4-5V p-p)
Scan frequency	Horizontal: 30~117KHz Vertical: 50~120Hz
Standard display area	350mm (H) × 265mm (V) / 13.8" (H) × 10.4" (V)
Display color	Unlimited
Power input	100~240V AC, 50/60Hz
Fuse rating 3.15A (TUV)	250V, S 3.0A (UL, CSA, TÜV) or T
Power consumption	On : Less than 120W Stand by : Less than 12W Suspend : Less than 12W Off : Less than 8W
Operating temperature	0 To 40 Degree C.
Dimensions	460mm (W) × 468mm (H) × 459mm (D)