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This Monitor was
Manufactured by ISO 9001
Certified Factory

SAFETY INSTRUCTION

1. Read all of these instructions.

2. Save these instructions for later use.

3. Follow all warnings and instructions marked on the product.

4. Unplug this product from the wall outlet before cleaning.
   Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

5. Do not use this product near water.

6. Do not place this product on an unstable cart, stand or table.
   The product may fall, causing serious damage to the product.

7. Slots and openings in the cabinet and the back are provided for
   ventilation: to ensure reliable operation of the product, these openings
   must not 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 heat register.
   This product should not be placed in a built-in installation unless proper ventilation
   is provided.

8. This product should be operated from the type of power source indicated on the
   marking label. If you are not sure of the type of power available, consult your dealer
   or local power company.

9. This product is equipped with a 3 wire grounding type plug having a third(grounding)
   pin. This is a safety feature. If you are unable to insert the plug into the outlet,
   contact your electrician to replace your obsolete outlet. Do not defeat the purpose of
   the grounding-type plug.

10. Do not allow anything to rest on the power cord.
    Do not locate this product where persons will walk on the cord.

11. 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 do not exceed the
    extension cord ampere rating. Also, make sure that the total of all products
    plugged into the wall outlet does not exceed 10 amperes.

12. 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 any kind of liquid on the product.

13. 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.

SAFETY INSTRUCTION

14. 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 normal operation.

    E. If the product has been dropped or the cabinet has been damaged.

    F. If the product exhibits a distinct change in performance, indicating a need for service.

▶▶CAUTION

The power supply cord is used as the main disconnect device, ensure that the socket-outlet is located/installed near the equipment and is easily accessible.

▶▶ATTENTION

Le cordon d`alimentation est utillsé comme interrupteur général. La prise de courant doit être située ou installée à proximité du matériel et être facile d`accès

CAUTION TO SERVICE PERSONNEL

POWER SUPPLY CORD IS USED AS MAIN POWER DISCONNECT DEVICE IN THIS PRODUCT. UNPLUG THIS PRODUCT FROM THE WALL OUTLET BEFORE REMOVING THE BACK COVER AND SERVICING

EMISSION CHARACTERISTICS TESTED BY SEMKO

THIS PRODUCT HAS BEEN TESTED AND HAS SHOWN COMPLIANCE WITH THE NATIONAL SPECIFICATIONS SUCH AS SWEDISH MPR 1990.10.(MPR • ⊥

CAUTIONS

NEVER REMOVE THE BACK COVER
Removal of the back cover should be carried out only by qualified personnel.

DO NOT USE IN HOSTILE ENVIRONMENTS
To prevent shock or fire hazard, do not expose the unit to rain or moisture.
This unit is designed to be used in the office or home. Do not subject the unit to vibrations, dust of corrosive gases.

KEEP IN A WELL VENTILATED PLACE
Ventilation holes are provided on the cabinet to prevent the temperature from rising.
Do not cover the unit or place anything on the top of unit.

AVOID HEAT
Avoid placing the unit in direct sunshine or near a heating appliance.

TO ELIMINATE EYE FATIGUE
Do not use the unit against a bright back ground and where sunlight or other light sources will shine directly on the monitor.

BE CAREFUL OF HEAVY OBJECT
Neither the monitor itself nor any other heavy object should rest on the power cord.
Damage to a power cord can cause fire or electrical shock.

FCC RF INTERFERENCE STATEMENT

▶▶ 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.

- 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.

- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

DOC COMPLIANCE NOTICE
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of Communications.
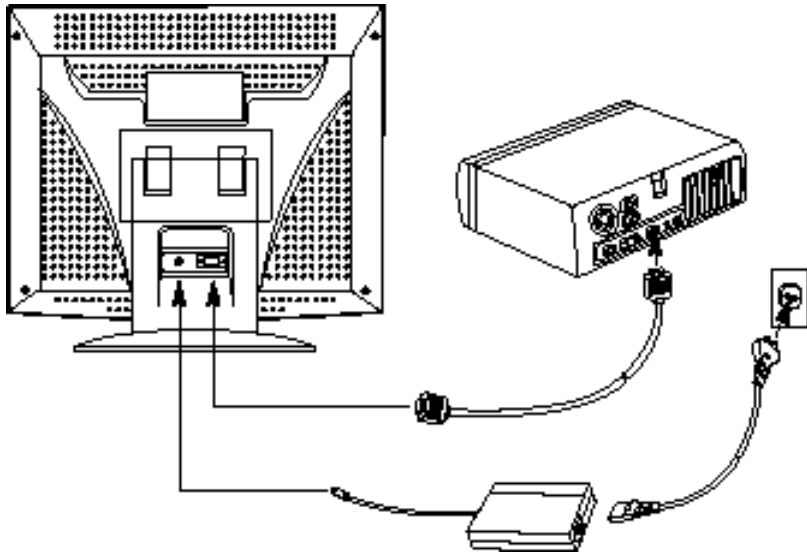
AVIS DE CONFORMATION AU MDC(DOC)
Le presént appareil numérique n`émet pas de bruits radio-électriques dépassant les limites appliqués aux appareils numériques de Class B d´arès les règlement sur le brouillage radio-électrique conçuent par le ministère des communications du Canada.

CONNECTING WITH EXTERNAL EQUIPMENT

▶▶ CAUTION

Be sure to turn off the power of your computer before connecting the monitor.

1. CONNECT THE VIDEO SIGNAL CABLE

    A. Connect one end of the signal cable to the back panel of the monitor
       and connect the other end to the graphic card on back of the computer.

    B. Secure the connection with the screws on the plug.

2. CONNECT THE POWER CORD

    A. Connect the plug of the AC/DC adaptor to the monitor.

    B. Connect the female end of the power cord to the power input
       receptacle on the AC/DC adaptor .
       Then, plug the male end of the power cord to an AC outlet or computer.

3. TURN THIS MONITOR ON AND START YOUR SYSTEM

RESOLUTION

This monitor is a digitally-controlled multi-frequency monitor.
It operates at horizontal frequencies of 31 to 50KHz and vertical
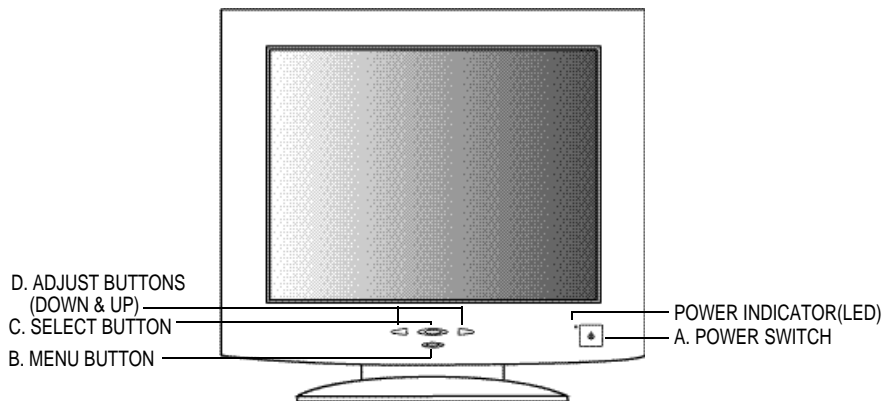frequencies of 60Hz.

Because of its micro processor-based designs it offers auto-synchronization
and auto-sizing capabilities. This monitor offers 6 programmed settings
as listed in the table below.
And designs its best quality at 1024X768, 48KHz@60Hz.

These 6 preset modes cover most of the common video modes supported by
popular graphic adaptors. However, each adaptors implementation of these
video modes may vary slightly in timings. You may find it necessary to make
minor adjustments to the display settings (i.e., horizontal position) using
the On Screen Display. For further information and instructions on using
the On Screen Display, please refer to "Controls and Functions."

PRESET MODES	RESOLUTION		FREQUENCY	
	H(Pixels)	V(Lines)	H(KHz)	V(Hz)
VGA	640	350	31.5	70
	720	400	31.5	70
	640	480	31.5	60
MAC	640	480	35.0	67
VESA	800	600	37.8	60
	1024	768	48.3	60

CONTROLS AND FUNCTIONS

D. ADJUST BUTTONS
(DOWN & UP)
C. SELECT BUTTON
B. MENU BUTTON

POWER INDICATOR(LED)
A. POWER SWITCH

A. POWER ON/OFF(⏻)
Turns the power ON or OFF. There will be a few seconds delay before
the display appears.
The power LED(next to the power switch) lights when the power
is turned ON.
The power is turned off by pressing the power switch again and
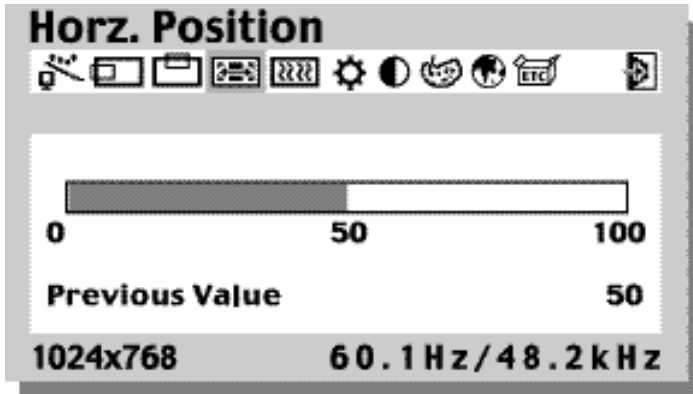the power LED goes out.

B. MENU
Activates and exits the On Screen Display.
MENU: Auto Adjustment, Horz. Position, Vertical Position, Horizontal Size,
        Phase, Brightness, Contrast, Color, OSD Language, Advanced, Cancel

CONTROLS AND FUNCTIONS

MENU activates when you press the Menu button.

Horz. Position

1024x768   60.1Hz/48.2kHz

Previous Value   50

C. SELECT

The select button allows user to activate the desired adjustment
with changing the adjustment bar to blue.

D. ADJUST

The Adjust button allows user to choose the icons (controls) in the menu.

Pressing the adjust button will step through all available
adjustment icons (controls).

In addition this adjust button can be used to adjust the icons (controls)
that is selected and changing the adjustment bar to blue via the select button when
the adjust button is pressed, the window containing an adjustment bar will increase
or decrease.

After completing all the desired adjustments, the On Screen Display
will disappear with pressing the menu button.

E. HOTKEY FUNCTION DEFINITION

OSD KEY	FUNCTIONS
DOWN	Brightness control
UP	Contrast control
SEL	Auto Geometry Adjustment

CONTROLS AND FUNCTIONS

1. SELF-TEST DISPLAY

When there is no connection, the On Screen Display will show for 5 seconds.

DPMS Power Saving Mode

2. OSD MENU DESCRIPTION

Auto Adjustment
Auto Geometry & Auto Color Balance

Horz. Position
Moves images horizontally on screen left(up) or right(down).

Vertical Position
Moves images vertically on screen up or down.

Horizontal Size
Adjusts the horizontal size of the screen's image.

Phase
Adjusts the focus of the screen's image.

Brightness
Increases(up), or decreases(down) the intensity(illumination) of the image   Â

Contrast
Increases(up), or decreases(down) the strength(lightness or dimness)   Â
of the image.

Color
Adjusts color temperature to 9300K, 6500K
Or, for a custom color mode, select "USER" and keep pressing select
key to activate the RGB Sub-menu.
This adjust the intensity of the RGB video output. Using the select
button activate(blinking) the R-GAIN(Red Gain), G-GAIN(Green Gain)
or B-GAIN(Blue Gain) and change color strength for a customized
color mode.

CONTROLS AND FUNCTIONS

OSD Language

Selects a language among English, German, French, Spanish, Italian.

Advanced

Factory Preset, Sharpness, DOS/GFX, OSD Horizontal Position,
OSD Vertical Position

Factory Preset

Press "select" key to reset all setting to the factory default value.

Sharpness

Adjusts the sharpness of the screen's image.

DOS/GFX

Selects text or graphic mode.

OSD Horizontal Position

Displays the OSD position menu.
Moves the OSD position to left/right.

OSD Vertical Position

Displays the OSD position menu.
Moves the OSD position to up/down.

OSD Timeout

Adjusts the OSD display timing.
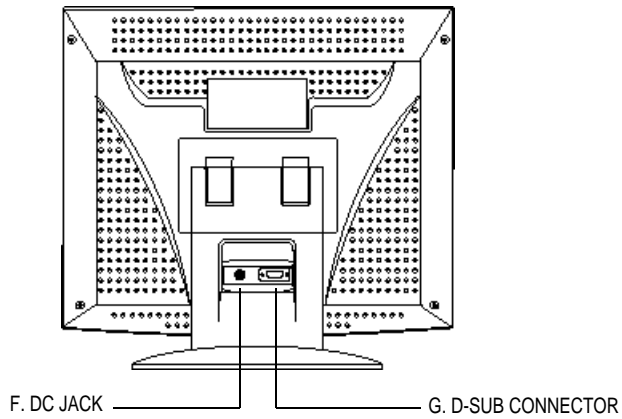
Cancel

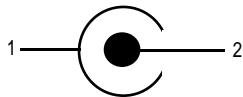Ignore current changes and keep the previous data.

F. DC JACK
AC/DC adaptor connection.

G. D-SUB CONNECTOR
Connect to the video signal cable.

F. DC JACK ——————————— G. D-SUB CONNECTOR

AC/DC ADAPTOR

1 ———— ● ———— 2

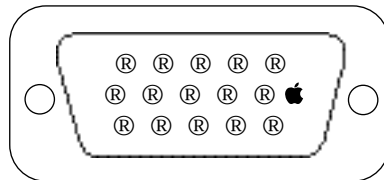| 1	GROUND
2	DC+12V out

ACCESSORY
1. POWER CORD
2. INSTRUCTION MANUAL
3. AC/DC ADAPTOR
4. VIDEO SIGNAL CABLE

D-SUB CONNECTOR
PIN ASSIGNMENTS

PIN ASSIGNMENTS

Pin 1	RED VIDEO	9	
2	GREEN VIDEO	10	GROUND
3	BLUE VIDEO	11	
4		12	SDA(for DDC)
5	GROUND	13	H-SYNC.(or H+V SYNC.)
6	RED GROUND	14	V-SYNC.
7	GREEN GROUND	15	SCL(for DDC)
8	BLUE GROUND		

D-SUB

POWER MANAGEMENT

This monitor features a power management system to "power down" upon receipt of the VESA DPMS(The display power management signaling) from a VESA DPMS video card.
The VESA DPMS-compliant video card performs this signaling system through not sending horizontal, vertical, or sync signal.
This monitor enters an appropriate mode through identifying each of the three modes of the signaling system.

POWER CONSUMPTION

MODE	POWER CONSUMPTION
ON	< 35W
STANDBY	< 5W
SUSPEND	< 5W
ACTIVE OFF	< 5W

LED INDICATOR

The power management feature of the monitor is comprised of four stages : On(Green), Standby, Suspend, Active off(Amber) and Not preset mode(Green).

MODE	LED COLOR	MONITOR OPERATION
ON	GREEN	Normal Operation
STANDBY	AMBER	Screen blanks after preset idle time and some electronic circuits or all circuitry in the monitor shut down.
SUSPEND		
ACTIVE OFF		
NOT PRESET MODE OUT OF RANGE	GREEN	Normal operation but the on screen display will show error massage.

SPECIFICATIONS

LCD Type
15.0" Diagonal AM-TFT(Active-Matrix)
DOT PITCH: 0.297mm
BRIGHTNESS: 250cd/m2 (Typical)
CONTRAST RATIO: 300:1(Typical)
RESPONSE TIME: 20 msec(Typical)

RESOLUTION(H x V)
1024X768 @60Hz

FREQUENCY
HORIZONTAL: 31-50KHz
VERTICAL: 60Hz

INPUT SIGNAL
VIDEO(Analog 0.7Vp-p / 75ohm)
SYNC(Separate and Composite TTL Level)

ACTIVE DISPLAY AREA (W x H)
304mm X 228mm

DIMENSIONS (W x D x H)
392mm X 196mm X 362mm

WEIGHT
Net Weight   : 5.3Kg
Gross Weight : 7.5Kg

POWER SUPPLY
INPUT: AC100 - 240V, 50/60Hz (auto switching)
OUTPUT: DC12V, 2.0A

NOTE :
Technical specifications are subject to change without notice.

TROUBLESHOOTING GUIDE

TROUBLE	TROUBLESHOOTING TIP
No image on display screen	1. Check that power cord of the Monitor have been connected securely into wall outlet or grounded extension cable or strip. 2. Power switch should be in the ON position and LED is lit. 3. Check that the Brightness and/or the Contrast adjustments of the Display have not been turned down to minimum levels.
"No signal, Check signal Cable" message on screen	1. The signal cable should be completely connected to the video card/computer. 2. The video card should be completely seated in its slot and the computer is switched ON.
Display image is not centered, too small or too large	Select Auto-adjust in the OSD.
Vertical or Horizontal noise is present in the picture	Adjust H-Size and Clock-Phase in the OSD.

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