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4P

MicroScan
15"(13.8" Viewable Image)

Professional monitor
User's Manual

Power Cord Requirements

The power cord set used with the monitor (AC adapter) must meet the requirements of the country where you use the monitor (AC adapter), whether it is 100-120 or 200-240 VAC.

The following information explains the requirements for power cord set selection.

- The cord set must be approved for the country in which it is used.
- The appliance coupler (that is, the connector to the device itself, not the wall plug) must have a configuration for mating with a CEE22/EN6032/IEC 320 appliance inlet (Standard Sheet C14).

U.S. and Canada

1. The cord set must be UL Listed and CSA Certified.
2. The minimum specifications for the flexible cord are:
 - No. 18 AWG
 - Type SV or SJ or SJT
 - 3-conductor
3. The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15A, 250V) configuration.

Japan

1. All components of the cord set (cord, receptacle, and plug) must bear a "T" mark and registration number in accordance with the Japanese Dentori Law.
2. The minimum specifications for the flexible cord are:
 - .75mm² conductors
 - Type VCT or VCTF
 - 3-conductor
3. The attachment plug must be a two-pole, earth-grounding type with a Japanese Industrial Standard C8303(15A, 125V) configuration.

Other Countries

1. The cord set fittings must bear the certification mark of the agency responsible for evaluation in a specific country. Acceptable agencies include:

BSI (United Kingdom)	NEMKO (Norway)
CEBEC (Belgium)	OVE (Austria)
DEMKO (Denmark)	SEMKO (Sweden)
EANSW (Australia)	SEV (Switzerland)
SETI (Finland)	UTE (France)
IMQ (Italy)	VDE (Germany)

expose you to dangerous voltage points or other risks. Refer all servicing to service personnel.

14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the product.
 - If the product has been exposed to rain or water.
 - 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.
 - If the product has been dropped or the cabinet has been damaged.
 - If the product exhibits a distinct change in performance, indicating a need for service.
15. Pulling the power supply cord will disconnect device, the socket-outlet shall be installed near the equipment and shall be easily accessible. Always disconnect power supply cord before servicing.
16. Do not plug in the power source before the tilt and swivel base is installed.

Wichtige Sicherheitshinweise

1. Lesen Sie bitte alle Anweisungen.
2. Heben Sie diese Anleitung für spätere Verwendungen auf.
3. Folgen Sie allen sich auf dem Gerät befindlichen Warnungen und Hinweisen.
4. Ziehen Sie das Netzkabel des Gerätes aus der Steckdose, bevor Sie es reinigen. Verwenden Sie keine flüssigen Reiniger oder Sprays. Verwenden Sie zur Reinigung ein weiches Tuch.
5. Betreiben Sie dieses Gerät nicht in der Nähe von Wasser.
6. Stellen Sie dieses Gerät nicht auf einen instabilen Wagen, Ständer oder Tisch. Das Gerät kann herunterfallen und dabei schwer beschädigt werden.
7. Schlitz- und Öffnungen auf der Rück- und Unterseite des Gehäuses dienen der Belüftung, um einen zuverlässigen Betrieb zu gewährleisten und um eine Überhitzung des Gerätes zu verhindern. Diese Öffnungen dürfen nicht blockiert oder abgedeckt werden, indem das Gerät auf ein Bett oder Sofa, einen Teppich oder ähnliche Oberflächen gestellt wird. Dieser Monitor sollte nicht in der Nähe von oder auf einer Heizung oder einem Heizlüfter betrieben werden, ebensowenig sollte es eingebaut werden, ohne daß eine ausreichende Belüftung gewährleistet ist.
8. Dieses Gerät darf nur mit der auf dem Typenschild ausgewiesenen Netzspannung betrieben werden. Fragen Sie Ihren Händler oder Ihre Elektrizitätsgesellschaft, wenn Sie nicht sicher sind, ob Ihre Netzspannung mit der angegebenen Spannung übereinstimmt.
9. Dieser Monitor ist mit einem Schutzkontaktstecker ausgerüstet. Stecken Sie den Stecker

SPECIFICATIONS

Picture Tube	15" (13.8" diagonal viewable image) flat square tube (FST) with enhanced contrast, dark-tinted CRT, 0.28mm dot pitch, invar shadow mask, advanced anti-reflection, anti-glare, and anti-static coating with low electromagnetic field.	
Resolution	1280 x 1024 @ 60Hz, 1024 x 768 @ 85Hz	
Reflection Frequency	Horizontal:	30 to 69 KHz
	Vertical:	47.5 to 125 Hz
Max. Video Input Bandwidth	110 MHz	
Display Area*	Factory Setting:	approx. 260mm x 195 mm
	Active Area:	approx. 278mm x 209 mm
Input Signals	Video:	Analog. 0.7 Vp-p/ 75 Ohms Positive
	Sync:	Separate sync. TTL level, 3 Vp-p typical
Input Connector	15-pin D-sub Type	
Display Colors*	Analog input; unlimited colors	
Power Source	90 - 264 VAC (Universal)	
Power Consumption	85 watts (max.)	
Power Management	EPA/ Energy Star	
	VESA DPMS signaling method	
Input Compatibility	VESA DDC 1 & 2B standards compliant	

protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed 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: A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.

Use only shielded cables to connect I/O device 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.

Warning FCC (Federal Communications Commission) Vor störungen im Rundfunkbereich

Dieses Gerät wurde getestet und entspricht den Richtlinien für Geräte mit digitalen Schaltungen der Klasse B gemäß Teil 15 der FCC-Bestimmungen. Diese Bestimmungen wurden aufgestellt, um einen angemessenen Schutz vor störender HF-Abstrahlung bei Betrieb des Geräts in bewohnten Gebieten zu gewährleisten. Dieses Gerät erzeugt und verwendet HF-Frequenzen, hierdurch kann bei dem Betrieb des Gerätes HF-Strahlung auftreten. Es kann zu Störungen von Rundfunk- und Fernsehgeräten kommen, wenn das Gerät nicht den Hinweisen des Herstellers entsprechend aufgestellt wird. Jedoch kann keine Garantie dafür übernommen werden, daß in bestimmten Fällen nicht dennoch Störungen durch HF-Abstrahlung auftreten können. Stört dieses Gerät den Rundfunk- oder Fernsehempfang (dies kann durch Ein- und Ausschalten des Gerätes in unmittelbarer Nähe von Empfängern festgestellt werden), kann der Betreiber folgende Verfahren anwenden, um die Probleme zu beheben:

- Richten Sie die Empfangsantenne neu aus.
- Stellen Sie das Gerät in größerer Entfernung zum Empfänger auf.
- Schließen Sie das Gerät an einer von der Spannungsquelle des Empfängers getrennten Steckdose an, damit beide Geräte über unterschiedliche Stromkreise versorgt werden.
- Setzen Sie sich mit dem Händler oder einem qualifizierten Radio-Fernsehtechniker in Verbindung.

Warning: Für die Einhaltung der FCC Strahlungsgrenzwerte ist es erforderlich, ein abgeschirmtes Kabel einzusetzen, das Störungen durch Radio- und Fernsehstrahlungen in

INTRODUCTION

Congratulations on your purchase of MicroScan 4P color monitor! This monitor incorporates DDC (Display Data Channel) technology to be Plug and Play compliant. MicroScan 4P offers a maximum resolution of 1280 x 1024 at 60Hz and is a high-contrast color monitor that addresses and satisfies the needs of business, desktop publishing and CAD/CAM users. The DDC is a standard set by VESA™ (Video Electronics Standards Association) which allows the monitor to automatically adjust to its optimum performance when information stored in the monitor is sent to the graphics controller.

Features

- 15-inch (13.8-inch viewable image) microprocessor-based display.
- Plug and Play functionality automatically adjusts the monitor to its optimum performance.
- The VESA DPMS-compliant power-saving feature automatically powers down the monitor after a user-defined period of inactivity.
- All parameters in each of the display modes reside in the microprocessor-based control system. Settings are built in for existing VGA standards, 800 x 600, 1024 x 768, and 1280 x 1024 modes.
- EasyScreen™ allows on-screen easy adjustment of Horizontal Size/Position, Vertical Size/Position, Pincushion, Trapezoid, Tilt, Color Adjustment, Language, Power Saver, Display Mode, and Factory Reset.

Unpacking

Check that four items are present and in good condition:

1. MicroScan 4P Color Monitor (with Video Signal Cable)
2. Assembly Base
3. Power Cord
4. Audio Cable (Stereo type)
5. This User Manual

TROUBLE SHOOTING

Warning messages	Possible causes	What to do
Input signal out of range	Power LED is in flash amber. Input signal of H-sync or V-sync is larger or smaller than its normal mode	Monitor will be in protect mode.
Check video cable	VGA cable is not properly connected.	Check VGA cable. This OSD message will stay on screen until VGA cable is connected to monitor or Power switch is turned off.

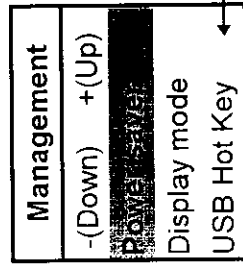
POWER CONSUMPTION

Mode	H-sync	V-sync	Power consumption
Normal	active	active	98 watts (max.)
Suspend/Standby	active	inactive	15 watts (max.)
Off	inactive	active	15 watts (max.)
	inactive	inactive	8 watts (max.)

management

Step 1: Use <+> or <-> key to scroll up or down.

Step 2: Press <Function> key to enter different functions as indicated below:



USB OSD software is an optional accessory; only available to purchase of USB hub base.

second level menu:

Power Saver: Activates or deactivates Display Power Management System (DPMS).

Power Saver
OFF

Step 1: Use <+> or <-> key to select On/Off.

Step 2: Press <Function> key to return to the Management menu.

Display Mode: Activates or deactivates on-screen display of Preset Mode or User Mode by mode change.

Display Mode
OFF

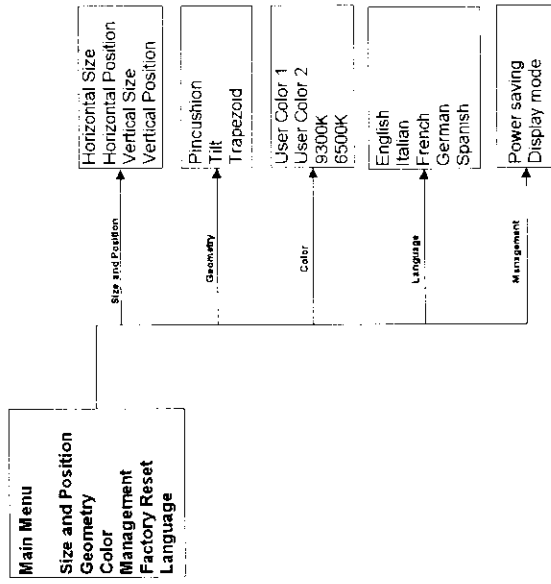
Step 1: Use <+> or <-> key to select On/Off.

Step 2: Press <Function> key to return to the Management menu.

Connecting your monitor

1. Turn off the power of your computer and other devices.
2. Connect the video signal cable of the monitor to the 15-pin connector of the video port in your computer.
3. With the monitor switched off, attach the power cord to the monitor and then to a grounded power outlet.
4. Connect the audio cable one end to the rear of your monitor and the other end to the back of your computer.
5. Turn on the monitor and computer.
6. If necessary, adjust the front panel controls accordingly to your personal preference.

Quick glance



Step 2: Press <Function> key to save the adjustment and return to the Geometry menu.

Step 3: If any adjustment of a parameter is made, the light bar will automatically show on Save and Return once you get out of second menu of Geometry menu. Press <Function> key to confirm the changes.

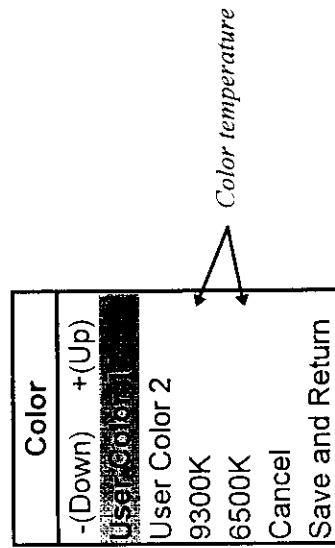
If no adjustment is made, the light bar will lay on Cancel.

Options	+	Description
Pincushion:		Curves left and right sides of the screen inward or outward.
:		Rotates image clockwise or counter clockwise.
Trapezoid:		Minimizes trapezoid distortion of the screen.

Color

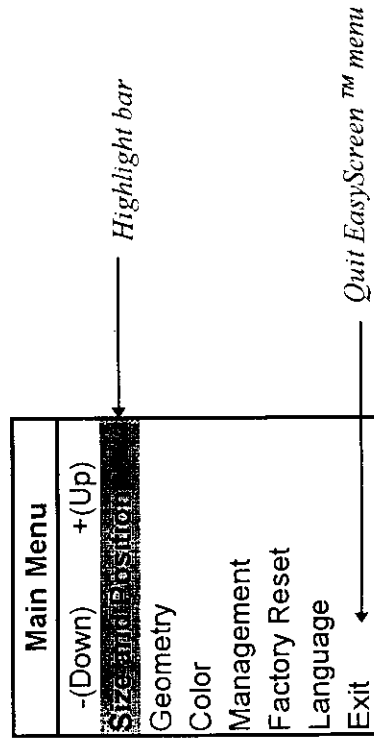
Step 1: Use <+> or <-> key to scroll up or down.

Step 2: Press <Function> key to select a parameter in Color menu.



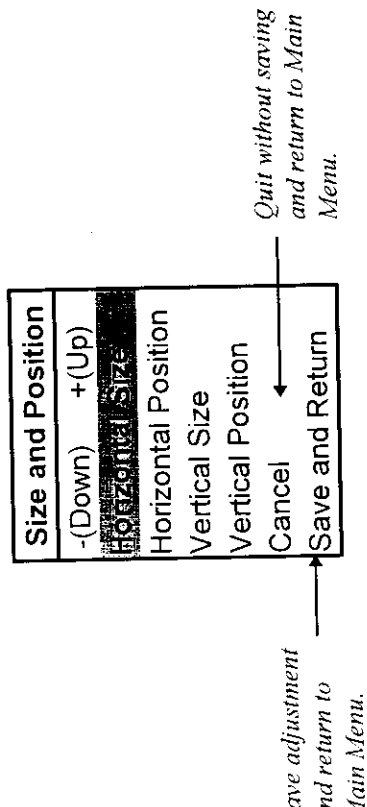
EASYSCREEN™ ADJUSTMENT CONTROLS

- Step 1: Press <Function> key on the front panel to show the Main Menu.
- Step 2: Press <+> or <-> key to scroll up or down the Main Menu and then press <Function> key to enter into the secondary menu.

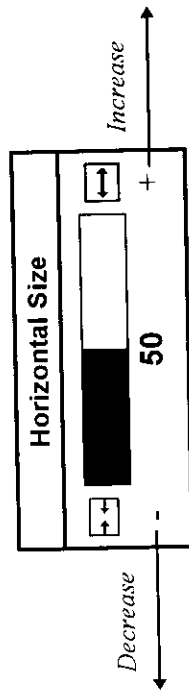


and Position

- Step 1: Use <+> or <-> key to scroll up or down.
- Step 2: Press <Function> key to select a parameter in Size and Position menu.



ond level menu:



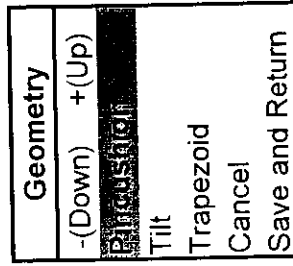
- Step 1: Use <+> or <-> key to adjust parameter.
- Step 2: Press <Function> key to save the adjustment and return to the Size and Position menu.
- Step 3: If any adjustment of a parameter is made, the light bar will automatically show on Save and Return once you get out of second menu of Size and Position menu. Press <Function> key to confirm the changes.

If no adjustment is made, the highlight bar will lay on Cancel.

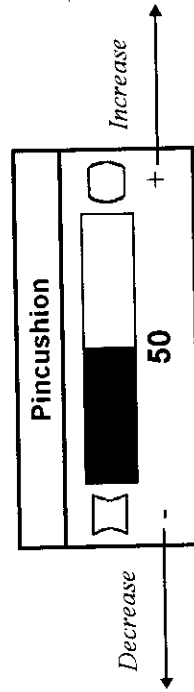
Functions		Description
Horizontal Size:		Increases or decreases the screen size horizontally.
Horizontal Position:		Moves the screen position left or right.
Vertical Size:		Increases or decreases the screen size vertically.
Vertical Position:		Moves the screen position up or down.

Geometry

- Step 1: Use <+> or <-> key to scroll up or down.
- Step 2: Press <Function> key to select a parameter in Geometry menu.

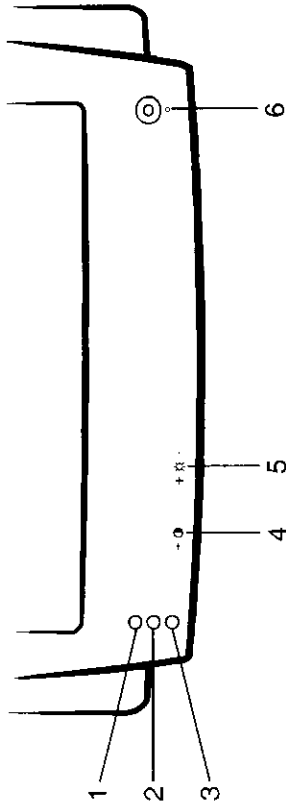


Second level menu:



- Step 1: Use <+> or <-> key to adjust parameter.

LOCATION OF CONTROLS



Increase + Scrolls up and increase the value of a parameter in EasyScreen™.

Function <> Displays EasyScreen™ on-screen display.

Decrease - Scrolls down and decrease the value of a parameter in EasyScreen™.

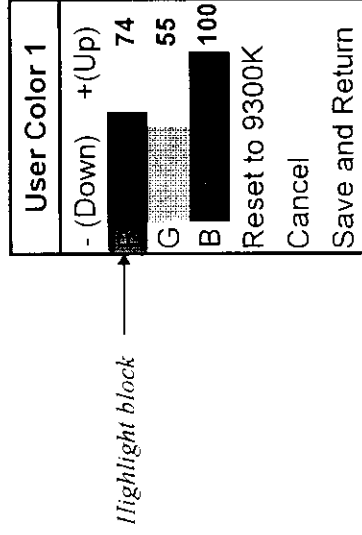
Contrast ● Adjust the image brightness in relation to the background.

Brightness ☀ Adjust the overall image and background brightness level.

Power Ⓛ Turns the monitor On/ OFF. The green light or no light signals ON or OFF respectively.

Functions	Description
9300K	Preset color mode 1
6500K	Preset color mode 2
User Color 1	Adjusts parameters for the colors Red, Green and Blue
User Color 2	Adjusts parameters for the colors Red, Green and Blue

Second level menu:



The highlight block will lay on R once you get into User Color 1/2 menu.

Step 1: Use <+> or <-> key to scroll up and down the menu.

Step 2: Press <Function> key to select between R/G/B parameter.

You may select Reset to 9300K as well if you prefer preset color temperature.

Step 3: Once you see R/G/B block in blinking, use <+> or <-> key to adjust parameter.

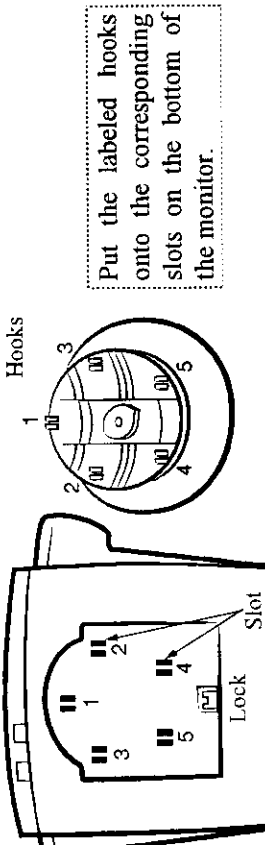
Step 4: Press <Function> key to finish the parameter adjustment.

Step 5: Once you finish adjustments, scroll the highlight bar to Save and Return to save and return to Color menu.

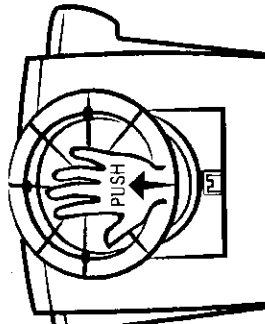
Select Cancel will quit User Color 1/2 without saving adjustments.

GETTING STARTED

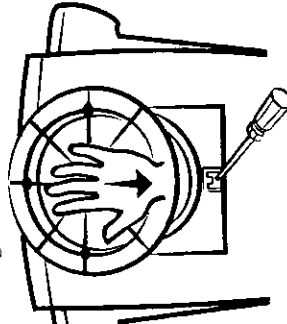
Installing and Removing the Assembly Base



Installation



Removing



Factory Reset

Factory Reset is to reset the on-screen parameters to its factory settings. The default is Cancel.

Step 1: Use <+> or <-> key to select between Reset/Cancel.

Step 2: Press <Function> key to reset/cancel and return to the main menu.

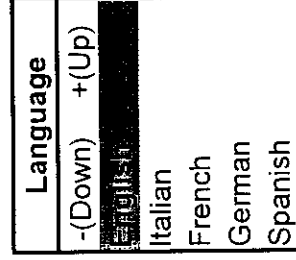


Language

Press <Function> key to choose from the English, German, French, Spanish and Italian to your EasyScreen™. Each language appears in its own native translation. Upon selecting a language, the following menus will be displayed in that language.

Step 1: Use <+> or <-> key to scroll up or down.

Step 2: Press <Function> key to select a parameter in Language menu.



er Nähe verhindert.

nutzen Sie ausschließlich abgeschirmte Kabel, um dieses Gerät anzuschließen.

Low Radiation

IPRII

Following the trend in the computer market toward low radiation, models of this equipment have been tested and found to comply with Swedish regulatory agency guidelines.

The Swedish guidelines define a level of induction and strength permissible for magnetic field emissions. Magnetic field emissions for models of this equipment are significantly lower than the Swedish guideline of 25 nT.

OC Compliance Notice

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

OC Avis de conformation

Ce présent appareil numérique n'émet pas de bruits radioélectriques ne dépassant pas les limites applicables aux appareils numériques de la Classe B prescrites dans le règlement sur le brouillage radioélectrique dicté par le Ministère des Communications du Canada.

E Marking

Your monitor is compliant to the related European standards including:

Emission: EN 55022, EN 60555-2, EN 61000-3-3.

Immunity: EN 50082-1 (IEC801-2, IEC 801-3, IEC 801-4).

Safety: EN 60950 [Low-Voltage Directive (73/23/EEC)].

ability Disclaimer. The manufacturer assumes no responsibilities for damage incurred directly or indirectly from errors, omissions, or discrepancies between the product and the manual. trademarks. Product / brand names mentioned in this manual are for identification purposes only and may trademarks and/or registered trademarks of their respective holders.

PRESET MODES

There are 12 preset modes and 4 user modes. The following modes are preset as factory defaults:

Preset mode	F _H	F _V	Standard
640 x 480	31.5 kHz	60 Hz	VESA
720 x 400	31.5 kHz	70 Hz	VGA
640 x 480	37.5 kHz	75 Hz	VESA
800 x 600	37.8 kHz	60 Hz	VESA
640 x 480	43.3 kHz	85 Hz	VESA
800 x 600	46.8 kHz	75 Hz	VESA
1024 x 768	48.4 kHz	60 Hz	VESA
832 x 624	49.7 kHz	75 Hz	MAC
800 x 600	53.7 kHz	85 Hz	VESA
1024 x 768	60.0 kHz	75 Hz	VESA
1280 x 1024	63.9 kHz	60 Hz	VESA
1024 x 768	68.7 kHz	85 Hz	VESA

* Video cable adapter needed for Macintosh and Quadra resolutions.

ur in eine geerdete Steckdose. Umgehen Sie diese Erdung nicht, indem Sie das Gerät in eine ungeerdete Steckdose stecken (über eine Euro-Verlängerung oder Euro-Doppelsteckdose).

teilen Sie keine Gegenstände auf das Netzkabel. Stellen Sie das Gerät auch nicht an Orten auf, an denen Leute gezwungen sind, auf das Netzkabel zu treten.

stellen Sie sicher, daß die spezifizierte Gesamtleistung eines Verteilers nicht durch die Aufnahmelleistung aller angeschlossenen Geräte überschritten wird, wenn dieses Gerät über ein Verlängerungskabel mit Mehrfachsteckdosen betrieben wird. Die Gesamtaufnahmelleistung aller an einer Steckdose angeschlossenen Geräte darf die Absicherungsleistung dieser Steckdose nicht überschreiten.

stecken Sie keinerlei Gegenstände durch die Ventilationsöffnungen in das Gerät, da diese dort mit gefährlichen Spannungen in Berührung kommen (Gefahr eines Stromschlags) oder einen Kurzschluß verursachen können. Verschlüssen Sie auch keinerlei Flüssigkeiten über das Gerät.

versuchen Sie nicht, das Gerät selbst zu warten, da Sie nach Öffnen des Gehäuses Punkte, die gefährliche Spannungen führen, berühren oder sich anderen gefährlichen Risiken aussetzen könnten. Überlassen Sie die Wartung qualifiziertem Reparaturpersonal.

Ziehen Sie den Stecker des Netzkabels unter folgenden Umständen aus der Steckdose und überlassen Sie die Reparatur qualifiziertem Fachpersonal:

- wenn Stecker oder Netzkabel beschädigt sind oder das Netzkabel gebrochen ist.
- wenn Flüssigkeiten in das Gerät gelaufen sind.
- wenn das Gerät Regen oder Wasser ausgesetzt war.
- wenn das Gerät nicht ordnungsgemäß arbeitet, obwohl die Bedienungshinweise beachtet wurden. Stellen Sie nur solchen Regler ein, die in der Bedienungsanleitung beschrieben sind, da die Einstellung anderer Regler zu Beschädigungen oder zu kostspieligen Reparaturen durch qualifiziertes Personal führen können, um den betriebsbereiten Zustand wieder herzustellen.
- wenn das Gerät heruntergefallen ist und das Gehäuse beschädigt wurde.
- wenn das Gerät eine Leistungsminderung zeigt, die Wartungsarbeiten erforderlich macht.

Durch Ziehen des Netzsteckers wird der Monitor ausgeschaltet. Die Steckdose sollte sich daher in der Nähe des Monitors befinden und leicht zugänglich sein. Vor dem Öffnen des Gerät unbedingt den Netzstecker ziehen.

Bitte nicht den Netzstecker anschließen, bevor der Dreh- und Schwenkfuß installiert ist.

Federal Communications Commission (FCC) Statement

is 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

USB hub (Option)

Locally powered hub with 4 downstream ports and 1 upstream port. (+5V, 2Amps. max.; 0.5Amps. each port)

Monitor control class

Front Panel Controls
-(Decrease), Function key, +(Increase), Contrast, Brightness, POWER

EasyScreen™
H-Size, H-Position, V-Size, V-Position, Pincushion, Tilt, Trapezoid, Color Adjustment, Management (Power Saver, Display Mode), Language, Factory Reset

Safety Regulations
UL, CSA, TÜV, NORDIC (NEMKO, SEMKO, FIMKO, DEMKO)

EMI
FCC Class B, CISPR 22, VCCI

EMC
CE

Ergonomics
DHHS, ZH 1/618, ISO 9241-3

Monitor Dimension
381mm(W) x 376mm(H) x 481mm(D)

Net Weight
13 kg

Ambient Temperature
Operating: 0°C - 40°C

Storage: -20°C - 65°C

Humidity
Operating: 20% - 95%

Storage: 10% - 95%

* Dependent on video controller/ card used

NOTICE:

DUE TO OUR POLICY OF CONTINUOUS PRODUCT IMPROVEMENT, THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. ADI CORPORATION SHALL NOT BE LIABLE FOR TECHNICAL OR EDITORIAL ERRORS OR OMISSIONS CONTAINED HEREIN; NOR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER RESULTING FROM FURNISHING, PERFORMANCE OR USE OF THIS MATERIAL.

KEMA (The Netherlands)

the flexible cord must be of a HAR (harmonized) type H05VV-F 3-conductor cord with a minimum conductor size of .03 square inches (1.0 square millimeter).

The cord set must have a current capacity of a least 10 Amperes and a nominal voltage rating of 125 or 250 VAC.

Important Safety Instructions

Read all of these instructions.

Save these instructions for later use.

Follow all warnings and instructions marked on the product.

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

Do not use this product near water.

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

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. This product should not be placed in a built-in installation unless proper ventilation is provided.

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.

This product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding type power outlet. 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.

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

If an extension cord is used with this product, make sure that the total 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 15 amperes.

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.

Do not attempt to service this product yourself, as opening or removing covers may