

USER'S MANUAL



910G

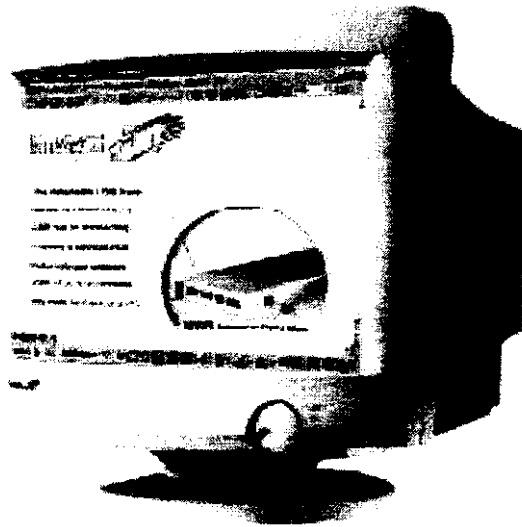


**21" (19.9" viewable)
Ultra High Resolution
Plug & Play Ready
Color Monitor
with JAG™ OSD Control**

USER'S MANUAL



XJ930

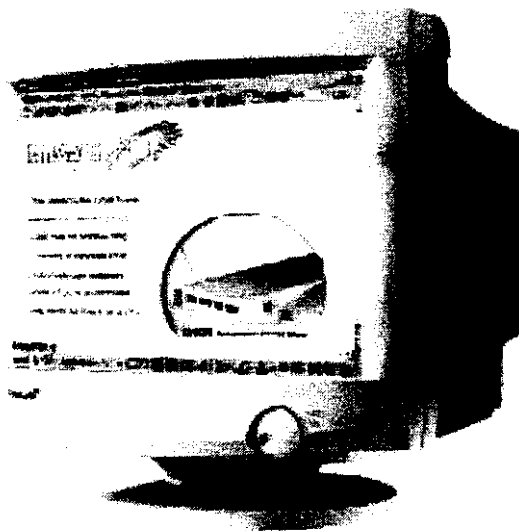


21" (19.9" viewable)
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XJ930U



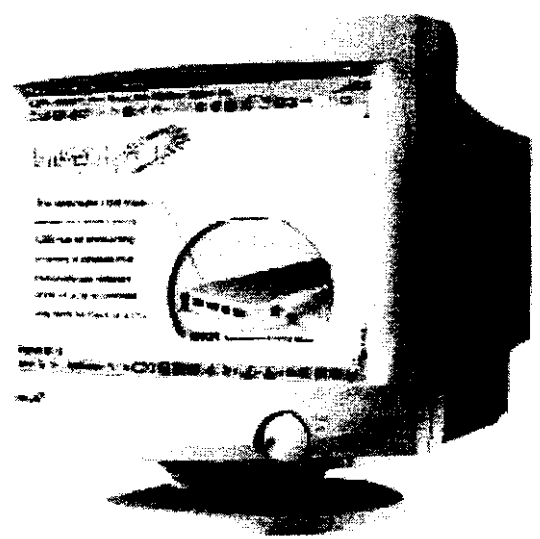
**21" (19.9" viewable)
Ultra High Resolution
Plug & Play Ready
Color Monitor
with JAG™ OSD Control**



USER'S MANUAL



DJ930



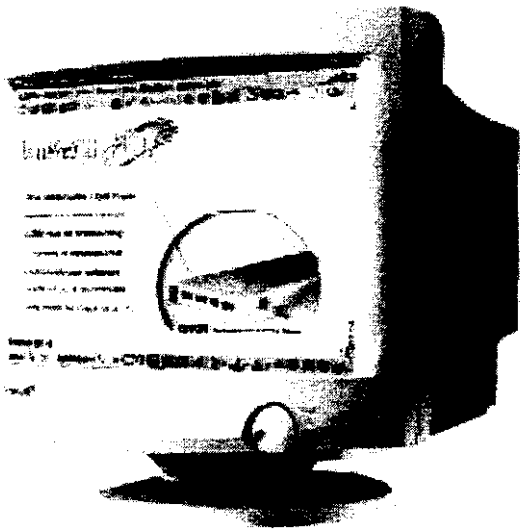
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DJ930U



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Notices

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MAG Technology Co., Ltd.

9F, No. 245, Sec. 1, Tunhwa S. Rd,
Taipei, Taiwan
Tel: +886 (2) 2775-3577
Fax: +886 (2) 2751-5911

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XJ930 / XJ930U / DJ930 / DJ930U / 910G User's Manual
Model no.: X21C002

11/98

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Specifications

All Specifications are subject to changed without notice or obligation.

CRT	21-inch (19.9" viewable) High-contrast flat square tube with TCO/Anti-reflective coating, anti-glare, anti-static, 90° deflection
Dot pitch	0.26mm
Max Resolution	1600 x 1200 (Non-interlaced)
Display color	Unlimited
Scanning frequency	Horizontal: 30 - 110KHz Vertical: 50 - 160Hz
Display area	Factory presetting: 390 x 295 mm (W x H) Maximum Scan: 406 x 304mm (W x H)
Video bandwidth	230 MHz (-3db) nominal
Input signal	Video: Analog, 0.7Vp-p, 75ohm Sync: Separate TTL level Composite TTL level
Power supply	100 - 240 Vac, 50/60 Hz
Power consumption	Normal: < 150W Suspend: < 10W Active Off: < 3W
Recommended ambience	Operating temperature: 32°F~104°F (0°C~40°C) Operating humidity: 10~90 % Storage temperature: -4°F~140°F (-20°C~60°C)
Dimensions	504 x 475 x 505 mm (W x H x D)
Weight	Net: 31.5Kg (69.3lbs) Gross: 40.0Kg (88.0lbs)
Certifications	UL, CSA, TUV/GS, SEMKO, NEMKO, DEMKO, FINKO, CE, DHHS, FCC B, MPR-II, TCO-92 TCO-95(optional)
Power Management	EPA Energy Star® , VESA DPMS™



The monitor fulfills the TCO-92 or TCO-95 recommendations on emissions if this TCO-92 or TCO-95 emblem appears on the back of the monitor.

Safety Precautions

Please read all of the following instructions before use.

- Follow all warnings and instructions marked on this product.
- When cleaning this monitor, first unplug it from the wall outlet. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use this product where water spills may occur.
- Prevention from falling, do not place this product on an unstable surface.
- To protect this monitor from overheating, slots and openings on the back and bottom of this unit (use for ventilation) should never be blocked.
- Never be placed near a radiator or heating element.
- Only operate this monitor from the power source indicated on the marking label. If you are not sure of the type of power source available in your area, consult your dealer or your local power company.
- This product is equipped with a 3-wire grounding type plug. For safety this device is meant to be used with a grounding-type power outlet. If you do not have one, contact your electrician to replace your obsolete outlet. **Do not use a 3-to-2 prong adapter.**
- Do not allow anything to rest on the power cord or leave any cords hanging where people frequently walk.
- If an extension cord is used with this product, make sure that the total amperage ratings do not exceed the extension cord's amperage or 10 amperes.
- Never puncture any objects through the walls of the monitor. High voltage points could result in electric shock, fire hazard or cause a short circuit.
- Never attempt to service this product yourself. Opening this unit may expose you to dangerously high voltages. Refer all servicing to a qualified service personnel.
- Save this instruction manual for later use.

Note: Unplug this product and contact qualified service personnel if:

- The power cord or plug is damaged or frayed
- The product has been exposed to rain or water
- The product does not operate normally when used properly
- Improper adjustments has been made
- The product has been dropped or damaged
- The product does not achieve maximum performance

Sicherheitshinweise

Bitte lesen Sie die folgenden Hinweise vor der Inbetriebnahme sorgfältig durch.

- Beachten Sie alle am Gerät angebrachten Warnungen und Hinweise.
- Trennen Sie das Gerät vor dem Reinigen zunächst vom Stromnetz. Verwenden Sie weder Reinigungsflüssigkeiten noch Sprays. Reinigen Sie das Gerät mit einem leicht angefeuchteten Tuch.
- Betreiben Sie dieses Gerät nicht in einer Umgebung, in der Wasserspritzer auftreten könnten.
- Stellen Sie das Gerät nur an einem sicheren, stabilen Ort auf. Das Herunterfallen des Monitors kann schwere Schäden verursachen.
- Achten Sie darauf, daß die Belüftungsschlitze und -öffnungen auf der Rückseite und Unterseite des Gerätes frei zugänglich sind, damit eine Beschädigung des Monitors durch Überhitzung vermieden wird.
- Vermeiden Sie es, das Gerät in unmittelbarer Nähe von Heizungen oder Heizelementen aufzustellen.
- Betreiben Sie dieses Gerät ausschließlich mit der auf dem Etikett angegebenen Netzspannung. Falls Sie nicht sicher sind, welche Netzspannung in Ihrer Umgebung verwendet wird, erkundigen Sie sich bei Ihrem Fachhändler oder bei Ihrem Stromversorgungsunternehmen.
- Dieses Gerät ist mit einem dreipoligen, geerdeten Netzstecker ausgerüstet. Es sollte aus Sicherheitsgründen an eine geerdete Steckdose angeschlossen werden. Beauftragen Sie gegebenenfalls Ihren Elektriker, nicht geerdete Steckdosen durch geerdete zu ersetzen. Verwenden Sie keinesfalls einen 3-auf-2poligen Adapter.
- Stellen Sie keine schweren Gegenstände auf das Netzkabel, und lassen Sie an stark frequentierten Orten keine Kabel im Weg herumliegen.
- Falls Sie dieses Gerät mit einem Verlängerungskabel betreiben, achten Sie darauf, daß die gesamte Stromlast der angeschlossenen Geräte nicht über der maximal zulässigen Strombelastung des Verlängerungskabels und nicht über 10 Ampère liegt.
- Stecken Sie unter keinen Umständen irgendwelche Gegenstände in die Gehäuseöffnungen. Die Berührung von Hochspannungselementen im Geräteinneren kann zu Kurzschlüssen, Brand oder Stromstößen führen.
- Versuchen Sie keinesfalls, dieses Gerät selbst zu warten oder zu reparieren. Beim Öffnen des Gerätes besteht die Gefahr, daß Sie in Kontakt mit Hochspannung geraten. Überlassen Sie alle Wartungs- und Reparaturarbeiten dem dafür ausgebildeten Fachpersonal.
- Heben Sie diese Anleitung zum späteren Gebrauch auf.

Hinweis: In den folgenden Fällen müssen Sie das Gerät vom Stromnetz trennen und sich mit Ihrer Servicewerkstatt in Verbindung setzen:

- Das Netzkabel ist beschädigt bzw. durchgescheuert.
- Das Gerät wurde Regen bzw. anderweitiger Feuchtigkeit ausgesetzt.
- Das Gerät funktioniert nicht erwartungsgemäß, obwohl die Bedienungsanleitung befolgt wurde.
- Es wurden falsche Einstellungen vorgenommen.
- Das Gerät ist heruntergefallen oder wurde anderweitig beschädigt.
- Das Gerät funktioniert nur eingeschränkt.

TÜV

Allgemeine Sicherheit Hinweise

Folgende Schritte sollten für die richtige Verbindung des XJ930 - Bildschirmgerätes mit dem Computer befolgt werden. Die folgenden Hinweise sollten vor der Installation des XJ930 sorgfältig beachtet werden

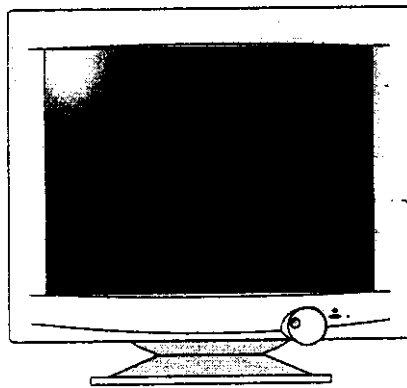
Diese Anleitung für späteren Gebrauch sorgfältig aufbewahren

- Das Bildschirmgerät nicht direkter Sonneneinstrahlung aussetzen.
- Das Bildschirmgerät nicht in der Nähe von Wärmequellen aufstellen, z.B. Heizgeräten, Heizungen.
- Das Bildschirmgerät nicht Regen oder übermäßiger Feuchtigkeit aussetzen.
- Nicht die Belüftungsoffnungen blockieren oder abdecken. Diese Öffnungen und Schlitze im Gehäuse sorgen für die notwendige Ventilation. Das Bildschirmgerät sollte niemals mit einer Verkleidung umgeben oder in einem Regal eingebaut werden, falls nicht für eine ausreichende Belüftung gesorgt ist.
- Niemals versuchen, das Gehäuse zu entfernen oder das Bildschirmgerät selbst zu warten. Alle Wartungsarbeiten sollten nur vom autorisierten Kundendienst durchgeführt werden.
- Niemals versuchen, dieses Gerät selbst zu warten, da beim Öffnen oder Abnehmen des Gehäuses die Gefahr eines elektrischen Schlages besteht.
- Zum Netzanschluß dieses Gerätes ist eine geprüfte Leitung zu verwenden. Für einen Nennstrom bis 6A ist eine Leitung nicht leichter als H05VV-F 3G 0.75mm² einzusetzen.
- Die Steckdose muß nahe dem Gerät angebracht und leicht zugänglich sein.
- Zur Vermeidung von Feuer oder Stromschlag niemals Gegenstände durch die Öffnung des Bildschirmgerätes stecken oder fallen lassen. Keine Flüssigkeiten über dem Gerät verschütten.
- Vor Anschluß des Netzkabels an die Steckdose sollte die Stromversorgung überprüft und sichergestellt werden, daß sie der Netzspannung des Bildschirmgerätes entspricht. Die vorgeschriebene Netzspannung ist auf der Rückseite des Bildschirmgerätes angegeben.
- Nicht die Steckdosen überlasten, da dies zu Feuer oder Stromschlag führen kann.
- Für den Anschluß an den Versorgungsstromkreis muß eine TÜV- oder VDE-geprüfte Anschlußleitung nicht leichter als H05VV-F verwendet werden.

Introduction

The XJ930 is a 21-inch (19.9" viewable) multi-scanning, ultra high resolution color monitor with an advanced High Contrast flat square tube. With state-of-the-art electronics, this monitor is capable of resolutions up to 1600 x 1200 non-interlaced.

The intelligent microprocessor-based design enables the monitor to automatically synchronize and adjust to most common video modes.



Check list:

Before operating this monitor, please make sure that all of the following items are included:

- XJ930 Monitor
 - Power cord
 - Signal cord
 - This user's manual
-

JAG™ Control

The JAG™ is designed to provide full user programming capabilities in one simple-to-use location for a more ergonomically-friendly design. This allows you to choose a control function and make necessary display adjustments with just one dial.

On Screen Display (OSD)

The combination of the JAG™ control and OSD (On-Screen Display) makes it easier for you to make precise screen format adjustments simply. The User Mode control within the OSD allows you to change and save custom display characteristics and timing modes.

DDC Plug & Play

With VESA® DDC1/2B, when the monitor is powered up, it will automatically notify a Windows® 95/98 host computer of its scanning frequencies, capabilities and characteristics. Windows® 95/98 will automatically recognize the connection of the monitor and select the appropriate display resolution.

EPA™ Energy Star® and VESA® Display Power Management System

In the business world, the fastest growing use of electrical power is by computer systems. The amount of electricity used by computers in businesses and homes is phenomenal. A large portion of this electricity is wasted. The Environmental Protection Agency (EPA) has conducted research showing that most of the time PCs are powered up, they are not in use. The EPA promotes the use of energy-efficient equipment because generating electricity causes emissions that pollute the air.

This monitor is Energy Star compliant when used with a computer equipped with VESA® Display Power Management System (DPMS).

Note: The XJ930 monitor has three power-saving modes. The power saving operation is indicated by the LED power indicator on the front panel.

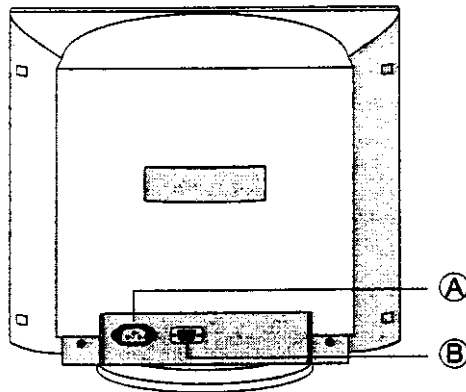
- When the LED is green, your monitor is operating normally.
 - When the LED is orange, your monitor is in a power saving mode.
 - If the LED is orange and blinking, the monitor is in a sleep mode. Press a keyboard key or move the mouse to return to normal usage.
 - If the LED is orange and blinking and you cannot return to normal usage by using the mouse or keyboard, check your video signal connection.
 - When the monitor is not in use, save energy by turning off the monitor.
-

Setting up Your Monitor

Setting up your monitor is easy. Just make a few simple connections and adjustments. The following procedure is to guide you to the proper usage of this product.

To connect the monitor to the system:

1. Turn off the power to your system and all its attached options.
2. Make sure that your equipment is in cable-reaching distance from a properly grounded electrical outlet. Position the monitor and the computer so that you can access the back panel of both without difficulty.
3. Connect one end of the signal cable into the video input connector on back panel of the monitor. Plug the other end of the cord into the graphic card video adapter on the back of the computer.
4. Tighten the screws on the video signal cable connector to keep them from coming loose and to prevent radio and TV interference.
5. Connect the power cord that came with the monitor to the AC connector at the back of the monitor. Plug the other end of the power cord into a properly grounded power outlet.



- A. AC power connector
- B. Video cable connector

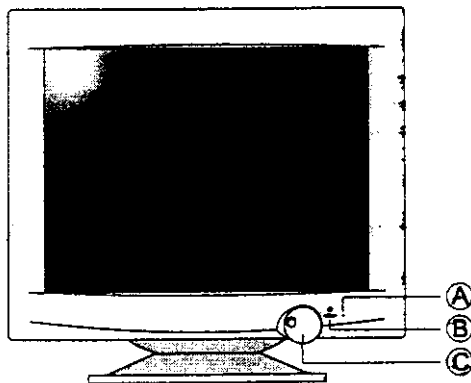
Note: It is important that you use the power cord that came with your monitor in order to insure that the monitor conforms to mandatory FCC standards.

Operation

Make sure you carefully follow the "Safety" and "setting Up Your Monitor" instructions to install your monitor to your system before operating your monitor. You may also want to familiarize yourself with the "Image Adjustment" section of this manual before making any operational adjustments to your operating monitor.

To operate the monitor:

1. Turn on the monitor by pressing the power button once. The power LED lights and the monitor demagnetizes itself for about five seconds.
2. Power up the system.
3. Once the system is completely powered up, the LED power indicator on the monitor should be green. If not, check the connections.
4. Use On-Screen Display to adjust the controls needed to get the best picture. Experiment with the display settings to choose the optimum image size and position for you (refer to the Image Adjustment section of this manual for Instructions).



- A. LED Power indicator
- B. Power button
- C. JAG Dial

Note: If you need to disconnect the power cord from the wall socket or monitor for any reason, be sure to wait at least 30 seconds after you turn off the monitor before you unplug it. This allows the monitor to discharge any static electricity from the screen surface.

Image Adjustment

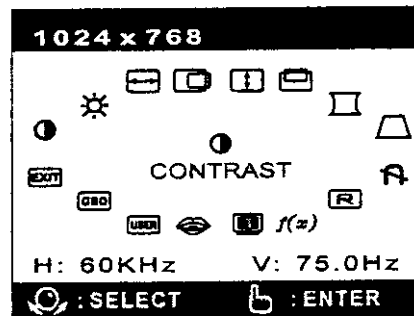
The JAG™ is designed to provide full user programming capabilities in one simple-to-use location for a more ergonomically-friendly design. This allows you to choose a control and make necessary display adjustments with just one dial.

To adjust brightness / contrast

















The brightness and contrast levels can be adjusted by turning the JAG control. Rotate the JAG to adjust the brightness control level. When the JAG is rotated, the brightness control level appears on the screen. Once the brightness level has been decreased to 50%, the contrast control level appears on the screen. Rotate the JAG to adjust the contrast control level. Once the contrast level has been increased to 100%, or decreased to 0%, the brightness control level reappears on the screen.

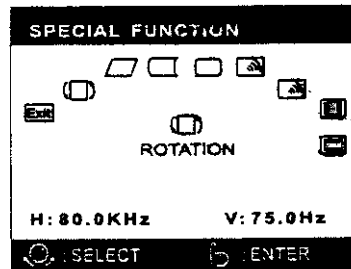
To adjust other visual settings



1. Press the JAG. The Main Menu appears, displaying the current resolution and a number of visual setting options. (refer to the "OSD Options" section of this manual).
2. Rotate the JAG to highlight the desired option. (If you rotate the JAG without pressing it first, the Contrast control bar appears.)
3. Press the JAG again to access the option. A control screen for the option appears.
4. If this option is adjustable, rotate the JAG to adjust it. Some options are not adjustable and are simply activated when the JAG is pressed.
5. Press the JAG when adjustments are complete to exit the control screen and return to the Main Menu.
6. Select Exit and press the JAG to exit the OSD Main Menu.




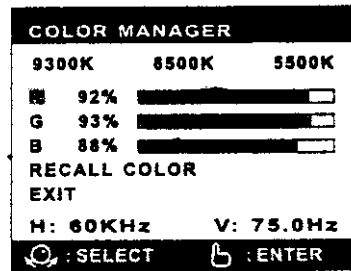
OSD Options


- ◆ **Contrast**  - Adjusts the contrast level (black level) in the display.
- ◆ **Brightness**  - Adjusts the brightness (white level) level in the display.
- ◆ **H-Size**  - Increases and decreases the display width.
- ◆ **H-Position**  - Shifts the display to the right or left.
- ◆ **V-Size**  - Increases and decreases the display height.
- ◆ **V-Position**  - Shifts the display up or down.
- ◆ **Pincushion**  - Bends the sides of the screen display inward or outward.
- ◆ **Trapezoid**  - Adjusts the top and bottom display widths to be even.
- ◆ **Degauss**  - Removes any discoloration from the display image due to electromagnetic field buildup. It is not usually necessary to degauss your monitor, unless it has been moved.
- ◆ **Recall**  - While in a preset video mode, press the JAG dial to reset all customer display setting to the factory default settings.
- ◆ **Special Functions f(x)** - Activates the secondary menu that displays options for rotation, bow, parallelogram, corner, and moire.
 - **Rotation**  - Adjusts the tilt of the display.
 - **Parallelogram**  - Adjusts the tilt of the display sides to the left or right.
 - **Bow**  - Bends the sides of the display in the same direction.
 - **Corner**  - Squares off the display corners.
 - **V-Moire**  - Reduces the optical effect of wavy lines or ripples on the display image in the horizontal direction. These effects are usually more noticeable on large gray areas or on black and white checkerboard patterns.
 - **H-Moire**  - Reduces the optical effect of wavy lines or ripples on the display image in the vertical direction.




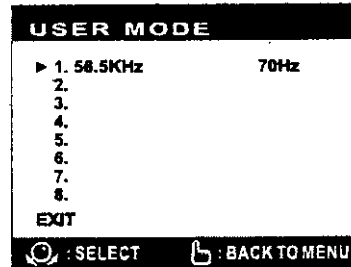
- **V-Convergence**  - Adjust the vertical convergence of the display colors.
- **H-Convergence**  - Adjust the horizontal convergence of the display colors.


- ◆ **Color Manager**  - Activates the secondary menu that display three preset level options. Once color temperature option is selected, rotate and press the JAG to choose and adjust the red, green or blue color levels. You may also use recall to return to the original factor settings.



- ◆ **Language Manager**  - Activates the Language Manager submenu. Allows you to choose the language for the menu screens.

- ◆ **User Mode**  - Activates the User Mode submenu. This stores the display characteristics of a specific resolution (not already defined as a factory preset timing mode) into the monitor's memory. This saves you from having to readjust the display features each time you reboot (refer to the "Video Modes" section for preset timing options) the computer.



- ◆ **OSD Manager**  - Activates the OSD Manager submenu. This allows you to adjust the OSD menu position on the display.

Video Modes

This multi frequency monitor operates at horizontal frequencies of 30 to 110KHz and vertical frequencies of 50 to 160 Hz. The range refers to a maximum flicker-free, usable resolution of 1600x1200 at a non-interlaced refresh rate of 85Hz Vertical.

This monitor offers 18 preprogrammed settings that cover most of the common video modes supported by popular graphics adapters. If the monitor recognizes one of the preset timing signals, it will recall that mode and any stored display adjustments you have made. However, the monitor is multi-scanning, thus, it can accept any signal within its frequency range.

If your video timing mode is not one of the preset timing modes, a screen will appear instructing you to save your timing mode to the User Mode.

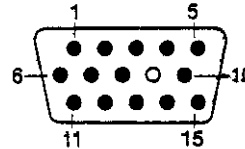
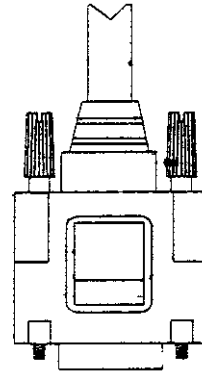
Preset modes	Resolution		Frequency	
	H (Pixels)	V (Lines)	H (KHz)	V (Hz)*
1	720	400	31.46	70
2	640	480	31.46	60
3	640	480	37.50	75
4	640	480	43.26	85
5	800	600	37.87	60
6	800	600	46.87	75
7	800	600	53.67	85
8**	832	624	49.71	75
9	1024	768	48.36	60
10	1024	768	60.02	75
11	1024	768	68.67	85
12**	1152	870	68.68	75
13	1280	1024	63.97	60
14	1280	1024	79.97	75
15	1280	1024	91.14	85
16	1600	1200	75.0	60
17	1600	1200	93.75	75
18	1600	1200	106.25	85

* Refresh rate. ** Macintosh Timing.

Pin Assignment

The pin assignment of the connectors is listed below for professional use only. Please do not attempt to alter the connections yourself as this may seriously damage the monitor.

<u>Pin No.</u>	<u>Assignment</u>
1	Red Video input
2	Green video input
3	Blue video input
4	Ground
5	Ground (DDC)
6	Red video ground
7	Green video ground
8	Blue video ground
9	No connection
10	Ground
11	Ground
12	DDC SDA
13	Horizontal sync./Composite sync.
14	Vertical sync.
15	DDC SCL



Regulatory Compliance Statements



American User:

This monitor has been tested to comply with the limits for a Class B digital device, Part 15 of the FCC Rules. These limits are designed to provide protection against harmful interference within a residential area. This equipment is able to radiate radio frequency energy therefore using in nonaccordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will be present in a particular installation. If there is interference, which can be determined by turning this equipment off and on, the user is encouraged to try to correct the interference by the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between your monitor and your computer.
- Connect the monitor into an outlet different from that to which the computer is connected.
- Consult the dealer, our customer service hotline, or an experienced computer hardware technician for help.

Warning!

This device has been tested and found to comply with the limits of a Class B digital device. The accessories associated with this equipment are as follows:

- Shield video cable
- Shield power cord

Change or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Power Supply Notice

Install only a UL LISTED/CSA LABELED power supply cord meeting the following specifications:

Plug Type	Nema-Plug 5-15P
Cord Type	SVT or SJT, minimum 3 x 18 AWG
Length	Maximum 15 feet
Rating	Minimum 7A, 125V



EPA Energy Star

This monitor is Energy Star compliant when used with a computer equipped with VESA Display Power Management System (DPMS). The Energy Star emblem does not represent EPA endorsement of any product or service.



Canadian Users:

This digital apparatus does not exceed the Class B digital limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par Industrie Canada.



European Users:

This Information Technology Equipment has been tested and found to comply with the following European directives:

- [i] EMC Directive 89/336/EEC amending directive 91/31/EEC 95/263/EE & 93/68/EEC as per
 - EN 50081-1: 1992 according to
 - EN 55022: 1994+A1:1995+A2+1997/CISPR 22:1993+A1+A2/AS/NZS 3548:1995, Class B
 - EN 61000-3-2: 1995, Class A
 - EN 61000-3-3: 1995
 - EN50082-1: 1992/1994 according to
 - EN61000-4-2: 1995 or IEC 801-2: 1987
 - ENV 50140: 1994 or IEC 801-3: 1984
 - EN 61000-4-4: 1995 or IEC 801-4: 1988
- [ii] Low Voltage Directive (Safety) 73/23/EEC as per EN 60950: 1992



Japanese Users:

This equipment is in the Class 2 category (Information Technology Equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by Information Technology Equipment aimed at preventing radio interference in such residential area.

When used near a radio or TV receiver, it may become the cause of radio interference. Read instructions for correct handling.

電波障害について

この装置は、情報処理装置等電波障害自由規制協議会(VCCI)の基準に基づく第二種情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置をラジオやテレビジョン受信機に近接してご使用になると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをしてください。

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E-mail: john@magtron.com.au

Europe:

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The Netherlands
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MAG Technology Co., Ltd. China Div.
Rm. D2, IF, 5.8 Bld Tian An, Industrial Estate, Che Gong Miao, Shenzhen.
Tel: +86 (755) 330-9423
Fax: +86 (775) 330-9411
E-mail: szmag@public.szpt.nt.cn

Taiwan:

MAG Technology Co., Ltd.
9F, No. 245, Sec. 1, Tunhwa S. Rd. Taipei, Taiwan
Tel: +886 (2) 2775-3577
Fax: +886 (2) 2751-5911
Internet:
<http://www.magtechnology.com>
E-mail: service@mail.mag.com.tw

United States and Canada:

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20 Goodyear, Irvine, CA 92618-1813
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