

Pro Visual 19" –Excellence Series-

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ENGLISH

# **PRO VISUAL 19" –EXCELLENCE SERIES–**

**User Manual**

Version 1.0

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## 1. Introduction

This manual is intended for users of the Pro Visual 19". No specific prior knowledge is needed to install and use this product.

The Pro Visual 19" is a microprocessor-operated monitor. All settings can be changed for each resolution and are automatically saved.

The properties of the monitors make them suitable for professional use. You are advised to adhere to the following general guidelines if you work many successive hours with a computer.

- Do not place the monitor in direct sunlight or in other bright sources of light as it will be difficult to see the contents displayed.
- Use ergonomic office furniture. Regulations will vary from country to country.
- Adjust your computer to the correct refresh rate. In most cases, 85Hz will work, which is also the TCO95 standard. Refer to section 4.1 for instructions on setting the refresh rate.

### 1.1. Conventions

The following conventions have been used in this manual to indicate instructions:

**<key>** Here you should press a key. The name of the key is given between the brackets.

**'System'** This is a specific term used in a program; These are the terms used by, for example, Windows 95.

**[DIR]** Key in the text between the square brackets.

**(Term)** The text between the parentheses (...) is the English term, e.g. (File) used in the figure referred to.

Additional information will be shown as follows:

**Note:** *Turn off the computer before connecting the product.*

## 1.2. Contents of the packaging

Check the contents of the packaging before reading the manual. You should find the following items in it:

- This manual
- Monitor
- Tilt-swivel
- Power cord
- Disk with driver

Contact your dealer if anything is missing or has been damaged.

## 1.3. Power Management

The monitor will go into different power saving states upon receiving control signals from the display controller. This feature meets the requirements set out by the American EPA (Environment Protection Agency) for saving energy. The monitor can make use of four different states conform the VESA standard Display Power Management Signal:

State	Use	LED
On	Normal	Green
Wait (Standby)	< 15 Watt	Yellow
Sleep (Suspend)	< 15 Watt	Yellow
Off	< 5 Watt	Off

**Table 1: Power-saving states**

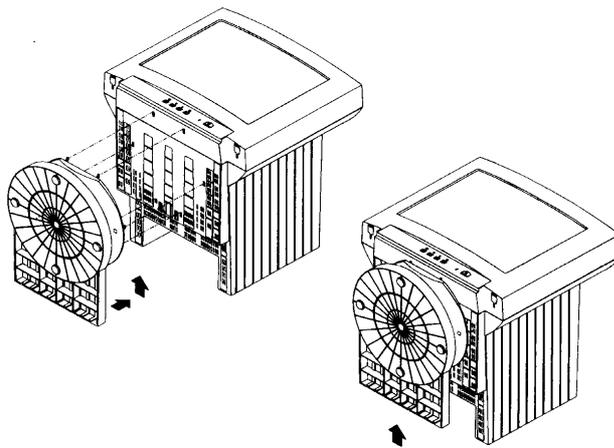
## **2. Safety**

Read the following instructions carefully before use:

1. Remove the power plugs from the power sockets before cleaning the equipment. Do not use cleaning fluids or spray cans on it. Instead, wipe off the device with a damp cloth.
2. Do not use this equipment in damp environments such as bathrooms, damp basements, swimming pools, etc.
3. Make sure there is nothing placed on the power cord. Do not put this device in a place where the cord can wear or be damaged.
4. Never insert objects into the openings on the outside of the device as you can come into contact with live electrical components. This can cause fire or give strong electrical shocks.
5. Do not try to repair the equipment yourself. If you open or remove the casing you might accidentally come into contact with live components. You will also be taking other risks.
6. You should disconnect the power supply and have the equipment repaired by qualified personnel if:
  - a) the cable or the plug is damaged or worn;
  - b) the equipment has come into contact with fluids;
  - c) the equipment has fallen and/or the casing has been damaged.

### 3. Installation

#### 3.1. Mounting the tilt-swivel



**Figure 1: Mounting the tilt-swivel**

Place the tilt-swivel against the base of the monitor so that the pins of the swivel are aligned with the appropriate openings.

Press the tilt-swivel towards the front of the monitor until you hear a "click".

#### 3.2. Placing the monitor

- Place the monitor in a convenient location close to your personal computer.
- Place the monitor in a position so that the upper part of the monitor is not higher than eye level.
- Place the monitor straight in front of you at a distance of 45 to 60 centimetres.
- Place the monitor in a position so that you do not have any trouble from glare or reflections, etc.

### 3.3. Connecting the monitor

**Note:** Turn off the computer before connecting the monitor.

**Note:** This monitor can be connected to an Apple Macintosh computer using a VGA Video Adapter.

1. Attach the 15-pin connector of the signal cable to the VGA connection at the rear of your computer.
2. Fasten the screws of the connector.
3. Connect the power cord to the monitor.
4. Insert the power cord plug into an earthed socket.

## 4. Installing the monitor under Microsoft Windows

This monitor is MS Windows Plug & Play compliant. After starting Windows 95 or 98, the monitor will be automatically detected.

The monitor can be installed using the driver shipped with the product.

1. Start Windows. After a while new hardware (Plug & Play monitor) is detected and the "Add New Hardware Wizard" will be started.
2. Click on "Next" to continue. See Figure 2.



**Figure 2: Add New Hardware Wizard**

3. Insert the disk "Driver Disk" in your floppy disk drive.

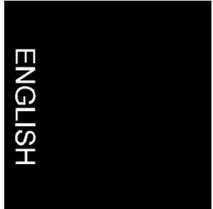
4. Follow the on-screen instructions to install the correct driver.
5. Select "Pro Visual 19" and click on "Next" to continue.
6. Follow the on-screen instructions to complete the installation.

You do not have to restart your computer after completing the installation.

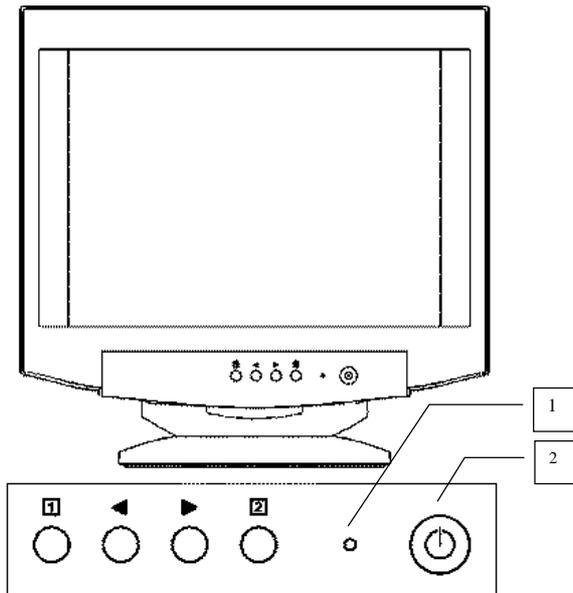
#### **4.1. Setting the refresh rate**

To set the refresh rate in Windows 98, follow the instructions below.

1. Go to the Control Panel (Start – Settings – Control Panel).
2. Double-click on the icon "Display".
3. Click on the "Settings".
4. Click on the "Advanced" button.
5. Click on "Adapter" and in the list choose 85 Hz.
6. Click on "Apply" to accept the selected value.



## 5. Operation



**Figure 3: Frontal view and control buttons**

Button	Description
<b>1</b>	Activating/Deactivating OSD
	Browsing through menu and options
<b>2</b>	Confirmation of the selection and/or setting
1	LED. Shows state of the monitor if it is switched on.
2	To turn the monitor on or off

**Table 2: Control buttons**

## 5.1. Turning the monitor on and off

Turn the monitor on with the on/off switch. The LED is lit.

### Power off

To turn the monitor off press the on/off switch again.

## 5.2. Using OSD

This monitor is equipped with On Screen Display (OSD). Press **[1]** to display the OSD menu on screen. You can select the desired function with the **◀** and **▶** buttons. Confirm your selection with the **[2]** button.

Menu option	Function	Description
Screen		Adjusting the <b>contrast</b>
		Adjusting the <b>brightness</b>
		Adjusting the <b>image width</b>
		Adjusting the <b>horizontal position</b> of the image (to the left or right)
		Adjusting the <b>image height</b>
		Adjusting the <b>vertical position</b> of the image (up or down)
		Correction of <b>pincushion distortion</b>
		Correction of <b>trapezium distortion</b>
		Correction of <b>pincushion balance</b>
		Correction of <b>parallel distortion</b> .
		Correction of <b>rotation</b> (rotated image)
		Adjusting the deflection angle

Image		Adjusting <b>vertical descreening</b>
		Adjusting <b>horizontal descreening</b>
Color		Setting the <b>RGB value</b> (manual) or colour temperature (6550 K, 9300 K)
Language		Setting the language (English, German, Italian, Spanish, French)
Special function		<b>Demagnetising</b> the image
		Accepting factory defaults
		Setting time that OSD is on screen (10-35 sec)
Display Mode		Displays horizontal and vertical frequency
OSD Position		Setting the position (horizontal, vertical) of the OSD menu on screen

**Table 3: OSD menu**

## 6. Troubleshooting

If your monitor does not function according to your wishes, you might be able to fix the problem simply by checking the points mentioned in the table below.

<b>Problem</b>	<b>Cause</b>	<b>Possible Solution</b>
Blank screen	Monitor is not turned on	Turn on the monitor (section 5.1)
	Power cable not properly connected	Connect the power cable properly (section 3.3)
	PC not turned on	Turn on PC (section 5.1)
	Brightness and/or contrast not adjusted properly	Adjust the brightness and/or contrast (section 5.2)

Image not well positioned	Wrong position settings	Adjust the horizontal position and vertical position (section 5.2)
Image too small or too big	Wrong size settings	Adjust the horizontal size and vertical size (section 5.2)
Image too dark or too bright	Wrong contrast/brightness settings	Adjust the settings for contrast and brightness (section 5.2)



- Ensure that you are using the proper signal source of your computer (consult the manual for you your computer / VGA card or other graphical add-on card).
- Check the settings of your VGA card and ensure that they are properly set for use with this monitor (consult your computer or VGA card manual).
- Check the Internet ([www.trust.com](http://www.trust.com)) for the FAQ's and for the latest version of the driver.

**Note:** *You can determine whether the problem is caused by the monitor or by the computer by performing the monitor self-test. Switch on the monitor; disconnect the VGA cable from the computer. If a 'NO SIGNAL' message is displayed, the monitor is working correctly and the problem is caused by the computer or the VGA cable.*

Contact your dealer or the help desk if the suggestions do not solve your particular problem. Have the following information ready for a speedy solution:

- Brand and type of your monitor
- Brand and type of your computer
- Language and version of your operating system
- Resolution used
- Refresh rate used

## 7. Technical specifications

Monitor size	19" (48.3 cm)
Visible size	18" (45.7 cm)
H dot pitch	0.22 mm
V dot pitch	0.26 mm
Monitor surface area	Normal: 350 x 262 mm Maximum: 365 x 274 mm
Number of colours	Infinite
Resolution	Maximum: 1600 x 1200 Recommended: 1280 x 1024
Horizontal synchronisation	30 - 95 kHz
Vertical synchronisation	50 – 120 Hz
Band width	120 MHz
Input signal	HD15F connector
Voltage	220V~ / 50Hz
Power Consumption	120 Watt max.
Dimensions (HxWxD)	470 x 470 x 480 mm
Weight	21 kg
Compliance	UL, CSA, DHHS, TÜV, GS, CE, TCO 95, FCC-B, VDE-B, EPA Energy Star, MPR-II Low Emissions, ISO-9001