

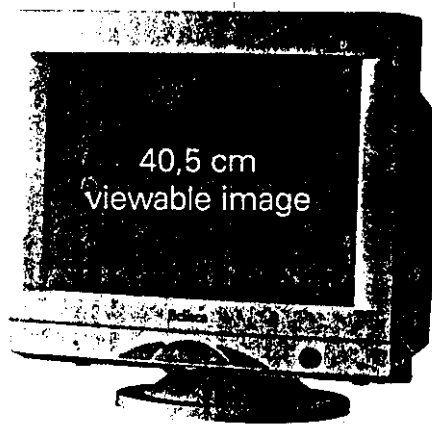
EXHIBIT 5

User's Manual

User's Manual

Belnea

MONITORS BY MAXDATA



Belnea 10 30 70

**User Manual in
Fifteen Languages**

FCC Class B

Radio Frequency 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 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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/television technician for help.

Notice:

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

Caution:

1. If you find some parts of the monitor display discolored due to magnetic fields generated by electrical facilities or appliances, turn off the monitor for at least 15 minutes. The degaussing circuit of the monitor will eliminate the discoloration.
2. Do not remove the monitor from its swivel base while the power is on to prevent discoloration. If discoloration occurs, follow the above-mentioned procedure for adjustment.
3. Shielded power cord and interface cable, if any, must be used in order to comply with the emission limits of FCC Class B digital device.

INTRODUCTION

Congratulations on your new purchase of a Belinea Monitor. At Belinea we pride ourselves on innovation and producing technologically advanced monitors of the highest quality.

We are certain that this monitor will meet your expectations and become a trusted partner.

This manual will familiarize you with the installation and use of your Belinea Monitor. Please take the time to look through these instructions even if you are familiar with monitors.

The manufacturer has taken all possible care to ensure that this manual contains correct, accurate information. However, the manufacturer cannot assume liability for any possible errors. In addition, the manufacturer cannot guarantee that the hardware will meet the purpose you require. The manufacturer would appreciate reports of any errors, suggestions or criticism.

© Copyright 1999
MAXDATA Computer GmbH, 45768 Marl,
Germany

All rights reserved. No part of this manual may be reproduced, processed or distributed in any form (print, photocopy, microfilm or any other process) or processed by an electronic system without prior written permission from the manufacturer.

We reserve the right to make changes according to technical progress. Belinea is an internationally registered trademark. Other brand names may be registered trademarks and must be treated as such.



We are all responsible for the environment: this manual was printed from front to back on paper that was produced without chlorine.

TABLE OF CONTENTS

Introduction	9
Features	10
Unpacking and Installing	10
Connecting and Startup	11
Image Settings Using the OSD Menu	11
OSD Menu Functions	12
Assembling and Disassembling the Tilt/Swivel Base	13
Caring for Your Monitor	14
Preset and User Defined Graphic Modes	14
Energy Saving Functions	14
Technical Specifications	15
Pin Assignment	15

FEATURES

This section provides an overview of the numerous functions and features of your monitor.

Multiscan 30 – 95 kHz 50 – 160 Hz	The monitor automatically scans all horizontal frequencies between 30 and 95 kHz as well as all vertical frequencies between 50 and 160 Hz.
Dot pitch 0.25 mm	This Super VGA monitor is equipped with a high resolution Diamondtron CRT with a dot pitch of 0.25 mm.
Resolution 1280 x 1024	The monitor attains a maximum resolution of 1280 x 1024 pixels (non-interlaced, 85 Hz).
Digital Front Control	Digital Front Control with 22 memory settings (10 preset and 12 user defined) and digital control keys make setting the various graphic and color standards easy.
Universal Power Supply	The monitor is equipped with a universal power supply. It can be used without any modification with standard international alternating current from 100 - 240 VAC, 50 - 60 Hz.
On Screen Display	This 17 inch monitor is equipped with an OSD (On Screen Display) menu to make professional adjustments easy.
TCO 1999	This monitor exceeds the TCO 1999 emission requirements.

UNPACKING AND INSTALLING

Location

- The setup location must not be extremely hot, cold, humid or dusty. Heat and cold can impair the functionality of the monitor. Humidity and dust can cause the monitor to fail.
- Position the monitor so that no direct light or sun strikes the screen, which could cause reflections that reduce the quality of the image.
- Equipment that generates magnetic fields, i.e. laser printers, speakers, etc., must not be placed close to the monitor. They can distort the image.

Safety Precautions

- The power cord must not be damaged. Do not place any objects on the power cord and make sure it does not have any knots. To unplug the cord, always pull on the plug and not on the cable itself. A damaged power cord may cause fire or electric shock.
- Never put anything on top of the monitor, especially not any container with liquid. If liquid enters the monitor it may cause electric shock or short circuit.
- Avoid covering the ventilation slots. Air circulation is necessary to prevent the monitor from overheating. If the air circulation is restricted it could cause fire or damage the monitor.
- Do not use any solvents to clean the monitor, as the housing could be damaged. For more information about cleaning the monitor, please see "Caring for your Monitor".

- Never open the monitor housing yourself. There is a danger of electric shock and other hazards. The monitor may only be opened and serviced by qualified professionals.

Unpacking the monitor

Carefully lift the monitor out of the packaging and check, if all accessories are included.

The following parts must be included:

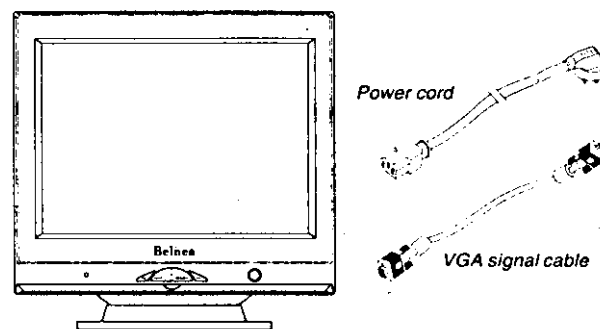


Figure 1. Monitor with tilt and swivel base

Assemble the tilt/swivel base to the monitor (see the section "Assembling and Disassembling the tilt/swivel base").

Save the original box and packing material in case you have to ship or transport the monitor.

CONNECTING AND STARTUP

◆ To connect the monitor to your PC.....

1. Make sure that the PC and monitor are unplugged.
2. Connect either the VGA cable or the BNC cable (optional) to the computer, as shown in figure 2,

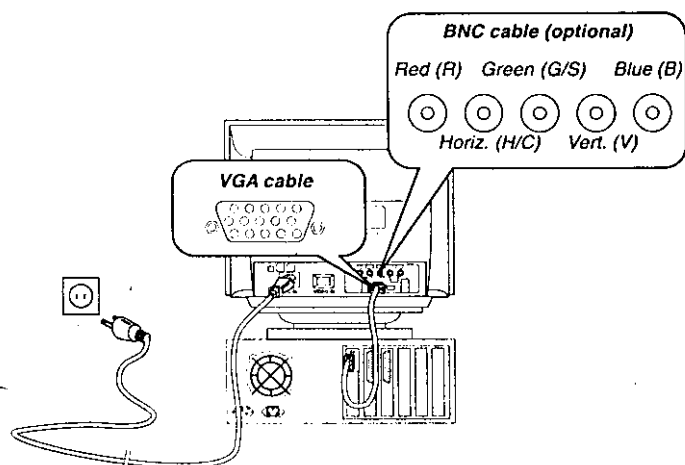


Figure 2. Connecting the monitor to the PC

and the power cable to the monitor and a grounded wall outlet. When using the BNC cable, be sure that the five colored wires are connected in the correct order.

3. First, turn on your PC, and then turn on your Belinea monitor by pressing the power button (see ① in figure 3). The status indicator (see ② in figure 3) should light up green.
4. Adjust the image to meet your requirements (see the following sections "Image settings using the OSD menu" and "OSD Menu Functions").
5. If there is no image displayed on the monitor, please check the following:
 - Are the PC and monitor turned on?
 - Is the signal cable between the graphics card on the PC and the monitor properly attached?
 - Is a screen saver active?
 - If there is still no picture displayed on the monitor, please contact your Belinea dealer.

IMAGE SETTINGS USING THE OSD MENU

The OSD menu appears in a window on the screen. It allows you to select the image settings you want to change.

◆ How to open the OSD menu

1. Press the OSD button **MENU/EXIT** (④ in figure 3) to display the OSD menu on the screen.

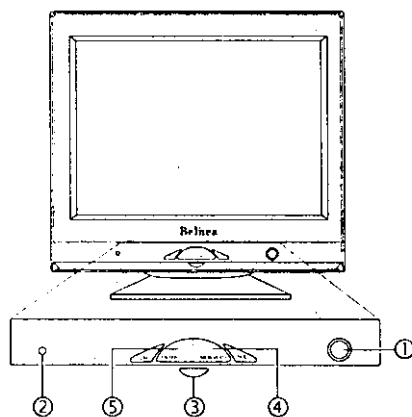


Figure 3. Monitor features

2. There are 6 OSD submenus, each corresponding to a separate category. Select the icon representing the desired category by turning the OSD dial (③ in figure 3) and pressing the OSD button **ENTER** (⑤ in figure 3).
3. The chosen OSD submenu is called up. Select the function icon using the OSD dial (see next section "OSD Menu Functions").
4. Press the OSD button **ENTER** to activate the function.
5. Change the selected function setting with the OSD dial. The current setting is displayed as a horizontal bar in the OSD submenu.
6. Press the OSD button **MENU/EXIT** to store the new setting. If you want to change additional settings, repeat steps 2-5.
7. To close the OSD menu, press the OSD button **MENU/EXIT** in the OSD main menu.

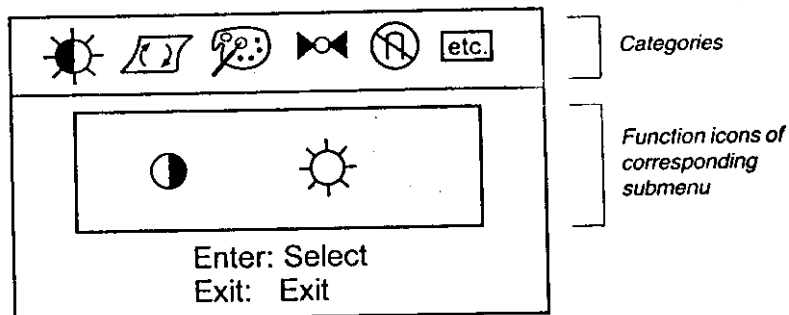
The OSD menu will automatically disappear if no changes are made for more than 10 seconds. The current settings will be saved.

Shortcut for adjusting contrast and brightness

You can adjust the contrast and brightness directly by turning the OSD dial (③ in figure 3) while the OSD menu is not active. Turning the dial to the left displays the OSD contrast menu while turning it to the right

displays the OSD brightness menu. Then turn the dial left to increase, or right to decrease the contrast/brightness.

OSD MENU FUNCTIONS



Category (Main menu)	Icon (Submenu)	Function	What it does
	Contrast/Brightness		calls up the submenu
		Contrast	adjusts the image contrast
		Brightness	adjusts the image brightness
	Image size/Image position/Geometry		calls up the submenu
		Horizontal position	adjusts the horizontal image position
		Width	adjusts the image width
		Vertical position	adjusts the vertical image position
		Height	adjusts the image height
		Rotation	corrects tilted image
		Pincushion	corrects pincushion distortion
		Pincushion balance	corrects parallel distortion of edges
		Trapezoid	corrects inward/outward slanted edges
		Parallelogram	corrects parallel slanted edges
		Distorted corners (upper)	corrects upper corner distortions
		Distorted corners (lower)	corrects lower corner distortions
	Color temperature	C1 C2 C3 C4 C5 Color Adjustment	selects or changes color settings (see next page)
	Recall		recalls factory-preset settings
	Degauss		see next page
	Other functions		
		Horiz. convergence	adjusts horizontal convergence (see next page)
		Vert. convergence	adjusts vertical convergence (see next page)
		Moiré	corrects horizontal moiré patterns (see next section)
		Input signal	selects BNC or VGA connection (see next page)
		OSD position	changes position of the OSD menu on the screen
		OSD language	chooses between German, French, English, Italian and Spanish

Special OSD functions

Degaussing

Ⓜ When the color representation of the monitor is distorted, you must degauss the monitor (the color distortion may be due to interference from the earth's magnetic field, i.e. when the monitor is rotated or moved). You should always wait at least 20 minutes before repeating this function.

Color temperature

Ⓜ By changing the color temperature settings, you can match the monitor's colors to the color output of another peripheral device (usually a printer). If for example your color printer produces different colors from those displayed on your monitor, you can correct the discrepancy by adjusting the monitor's color settings.

To change the color temperature settings, select category Ⓜ and confirm by pressing the OSD button **ENTER**. You can choose one of the five preset configurations ("C1" to "C5") by turning the OSD dial and pressing the OSD button **MENU/EXIT**. If you want to change the color temperature manually, press the OSD button **ENTER**. This activates the User Mode, opening a submenu where you can change the individual color temperature settings (RGB). This will change the setting of the chosen configuration. You can recall the factory-preset values by selecting the option ➤.

Automatic image calibration (CAL button)

Pressing the **CAL** button (see ① in figure 4) initiates the monitor's automatic calibration process. The monitor will reconfigure the image settings, trying to get the optimal configuration for the current mode.

Degaussing shortcut (DEG button)

You can activate your monitor's degauss function (see previous section) directly by pressing the **DEG** button (see ② in figure 4) instead of selecting the corresponding OSD menu function.

Horizontal/vertical convergence

Ⓜ The convergence function is used to correct blurred horizontal or vertical edges, caused by inadequate lighting. Select the desired convergence function, activate it by pressing the OSD button **ENTER**, and correct the lighting. You can view the result while changing the setting. Press the OSD button **MENU/EXIT** to confirm and store the new setting.

Input signal

Ⓜ Calling up this function opens a submenu where you can select the video connector used by toggling between VGA (D-SUB) and BNC. This enables you to use the monitor with two computers. If there is just one computer connected to the monitor by one cable only, the monitor will automatically adjust the setting as required. Faulty settings are corrected within a short time.

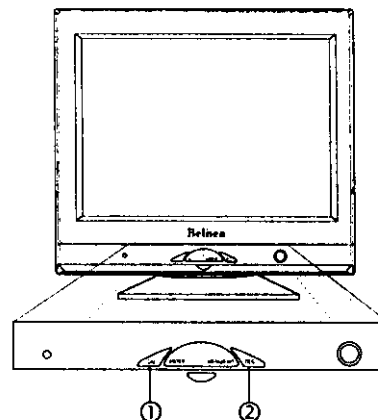


Figure 4. CAL and DEG button

ASSEMBLING AND DISASSEMBLING THE TILT/SWIVEL BASE

◆ Assembling the tilt/swivel base

1. Place the monitor screen down on a soft surface (pillow, blanket or similar object).
2. Align the latches of the tilt/swivel base with the openings on the bottom of the monitor and push the base forward until it locks into place.

◆ Disassembling the tilt/swivel base

1. Press the locking tabs located at the back of the monitor's base inward while simultaneously pulling the base upward and toward the monitor's backside. Now the base should come off easily.

CARING FOR YOUR MONITOR

- First, unplug the power cord from the wall socket or power supply on the PC.
- If the monitor is extremely dirty, clean it with a moist cloth. Use only warm water and then wipe the monitor dry. Solvents or harsh cleaners can damage the housing. Clean the picture tube only with a soft cloth, otherwise you may damage the picture tube coating.
- If the monitor is only slightly dirty, clean it using a soft, dry and antistatic cloth.
- The monitor's cathode ray tube is covered with a special coating for reduced emissions. This coating is more susceptible to scratches and marking than lower performance displays lacking this feature. Do not touch the screen with pens and pencils. Do not allow watches, rings, buttons and other clothing accessories to brush against the screen (a common cause of scratches are tie pins when moving the display).

PRESET AND USER DEFINED GRAPHIC MODES

The following table lists the factory preset graphic modes and their resolutions and frequencies. For all these graphic modes all image adjustments (width, height, position, etc.) are already optimally configured.

You can save up to 12 additional settings. If you use a different resolution or one of the given resolutions with

other frequencies, you can adjust the image until it is perfectly displayed. If you switch back to this resolution after changing modes (i.e. by running the same software), the values you saved for image size, position, etc., will automatically be recalled (that is, the monitor "remembers" your settings).

Standard	Resolution	H-Freq. (kHz)	V-Freq. (Hz)	Pixel clock
VESA	640 x 480	31.469	59.940	25.175
VESA	640 x 480	43.269	85.008	36.000
VESA	800 x 600	46.875	75.000	49.500
VESA	800 x 600	53.674	85.061	56.250
VESA	800 x 600	63.619	100.030	68.200
VESA	1024 x 768	60.023	75.029	78.750
VESA	1024 x 768	68.667	84.997	94.500
VESA	1024 x 768	80.741	99.803	109.000
VESA	1280 x 1024	79.976	75.025	135.000
VESA	1280 x 1024	91.146	85.024	157.500

ENERGY SAVING FUNCTIONS

This monitor is equipped with power management features according to the E2000, EPA, NUTEK and VESA DPMS standards. When not in use, the power consumption is reduced in three steps (Standby, Suspend and Off-Status). When the monitor is in power saving mode, the color of the status LED (see ② in

figure 3) will become orange. Most graphic cards and PCs support monitors with power management features. If you have an older PC or graphic card that does not support power management features, please contact your dealer.

Modus	H-Sync	V-Sync	Color of status indicator	Power consumption	Recovery time
Normal	active	active	green	< 120 watts	-
Standby	off	active	orange	< 15 watts	< 3 sec.
Suspend	active	off	orange	< 15 watts	< 3 sec.
Off-Status	off	off	orange	< 3 watts	< 20 sec.

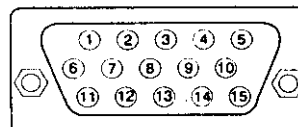
FCC ID: JVP 7379G

TECHNICAL SPECIFICATIONS

CRT	17 inch diagonal size (40.5 cm visible), Diamondtron CRT 0.25 mm dot pitch, antistatic/antireflective coating low radiation according to TCO 1999, B22 phosphor
Input signal	Video: analog 0.7 V _{pp} / 75 Ohm, positive Synchronization: separate, TTL-Level Horizontal synchronization: positive/negative Vertical synchronization: positive/negative
Display colors	Analog input, unlimited colors
Synchronization	30 – 95 kHz horizontal 50 – 160 Hz vertical
Band width	160 MHz
Resolution	max. 1280 x 1024 pixels
Misconvergence	center: max. 0.3 mm; edge: max. 0.4 mm
Power supply	100 - 240 VAC, 50 - 60 Hz
Power consumption	max. 120 W (Standby: < 15 W, Off-State: < 3 W) Power saving functions E2000, EPA, NUTEK and VESA-DPMS certified
Dimensions	420 mm (width) x 442 mm (height) x 440 mm (depth)
Weight	20.5 kg (net)
Operating environment	Temperature: 0 ~ 40 °C Rel. humidity: 8 to 85% (without condensation)

PIN ASSIGNMENT

Pin	Assignment	Pin	Assignment
1	Red	9	No pin
2	Green	10	Ground
3	Blue	11	Ground
4	Ground	12	SDA signal
5	Ground	13	Horizontal sync
6	Red return	14	Vertical sync
7	Green return	15	SCL signal
8	Blue return		



15-pin D-SUB connector

ENGLISH