

In the Program Manager, choose File, Run. Specify the directory where the display drivers for OS/2 are and run the install program (\INSTALL [ENTER]).

3. When prompted, specify to copy the files to the \OS2\MDOS\WINOS2 directory.
4. You may now select the resolution by running the SetRES utility. Run SetRES by double-clicking on the SetRES icon. Use the SetRES utility to select either 16 or 256 colors and the desired resolution for future WIN-OS/2 sessions. For help on the SetRES utility, select Help from the program menu.

Section Five: CLMODE-Preparing Your Monitor

The CLMODE utility allows you to define the type of monitor attached and preview the video modes supported by the Boca VL-Bus SuperX. Using CLMODE's menu-driven interface, type the following at the DOS prompt:

CLMODE [Enter]

The main popup window consists of a number of buttons. Each button represents a different option or menu. The underlined letter of a button name specifies the hot key combination for that item. For example, press the [Alt] and the underlined letter key simultaneously or just the underlined letter key to select an option. Note if you intend to use a mouse with CLMODE, then a mouse driver should first be installed prior to running the CLMODE utility.

Choosing the Attached Monitor Type. Selecting the proper monitor type will allow the VL-Bus SuperX to display the highest quality output that it is capable of with the attached monitor. The monitor type determines what video modes will be available to your system. It will also determine the vertical refresh rates available. Generally, the higher the refresh, the better the screen will look. A description of the available monitor types appears at the end of this section. In most cases, CLMODE automatically detects the monitor type.

Select the Monitor Type Button. The Monitor Type setup window will be displayed. The current monitor type will be highlighted initially. Use the cursor keys or the mouse to choose the type of monitor attached. Selecting the Advanced monitor type will enable you to customize the monitor timings for the monitor you are using.

To customize the monitor timings, use the mouse or the tab key to select the gray Set Advanced button. It will only be available if the Advanced monitor type is selected. This will bring up a new dialog box with drop down menus for each available resolution. Select the desired refresh rate for each resolution. Consult the manual for your monitor to discover the correct rate. When all of the settings are correct, select the OK button. If there are any problems or you change your mind, select the Cancel button.

Before saving the new monitor type, you may want to select the Verify button to view each of the new video timings that you have selected to verify that they are compatible with your monitor. After each test screen is displayed, press [Enter] or the left mouse button to see the next video mode. If there is a problem, press [Esc] or the right mouse button will return you to the Monitor Type Setup dialog box. Try a slower setting for the resolution that did not work and try verifying your choices again.

On some systems the monitor type will be remembered from one session to the next. To test this, select a monitor type and exit the CLMODE program. Turn the computer off for ten seconds. After rebooting the computer, run CLMODE and verify whether or not the monitor that you selected is still enabled. If it is, it should not ever need to be set again in normal use. If the monitor type was not kept then you should select the option to have CLMODE save the monitor type in your AUTOEXEC.BAT file. You will be given this choice after selecting the Save button.

Available video modes

Select the Video Mode Button. The Video Mode Preview window displays all the modes supported according to the monitor type attached and the amount of video memory present. This list of video modes will tell you which are available in your current configuration for use with extended resolution drivers. To see what different video modes look like on your monitor, select the Preview button. After each test screen is displayed, press [Enter]

or the left mouse button to see the next video mode. If you don't want to see any more video modes press [Esc] or the right mouse button will return you to the Video Modes Preview window.

Getting Help

CLMODE provides Help for the following items: Monitor Type, Video Mode Preview, Mouse, Keyboard and About CLMODE. The Monitor Type help window explains the different capabilities of each monitor type. The Video Mode help window defines the information given in the Video Mode window. The Keyboard and Mouse help windows explain how to use the keyboard and the mouse to make selections. The About window displays the Boca Research copyright message and the CLMODE version number.

Exiting CLMODE

To exit CLMODE at any time, press [Alt] and [F4] keys simultaneously, or click the left mouse button on the system button of the main window (i.e. The top left corner button of the window which is shown as a dot), or select the Exit button. When the CLMODE utility exits, the current video mode, monitor type, and VGA refresh rate will be displayed.

Using CLMODE's Command Line Options. When command line options for CLMODE.EXE are given at the DOS prompt, the menu-driven windows will not be displayed. Instead, monitor type, video mode and refresh rate will be set at the DOS prompt. The command line options for CLMODE.EXE are:

/V Bus SuperY-VGA

CLMODE [[modenum][+*-]] [m[montype] | t6=x t8=x t1=x t2=x]

[modenum] mode number

[+*-]

- + selects 400 lines (default)
- * selects 350 lines
- selects 200 lines

[montype]

monitor type

t6=x(Hz)

640x480 @ (0 = 60, 1 = 72)

t8=x(Hz)

800x600 @ (0 = 56, 1 = 60, 2 = 72)

t1=x(Hz)

1024x768 @ (0 = 87i, 1 = 60, 2 = 70, 3 = 72)

t2=x(Hz)

1280x1024 @ (0 = 87i, 1 = Not available)

For example, to select mode 3 for a Super VGA monitor (montype 2), type the following command at the DOS prompt:

CLMODE 3+ m2[Enter]

To select custom monitor timings with 640x480 at 60Hz and 800x600 at 72Hz refresh type:

CLMODE t6=0 t8=2[Enter]

Typing an invalid option will display the command line help text. Typing [S] as a command line option will display the current CLMODE settings.

Following is a table of common monitor types and associated values that you should use for the [montype] option. Resolutions with more than one entry per line in the vertical frequency column signify availability of the high-refresh option.

VALID MONITOR SETTINGS

Valid Value	Monitor Type	Horizontal Frequency	Vertical Frequency	Display Resolution
0	IBM 8512 IBM 8513 IBM 8503	31.5	LOW or HIGH	640x480
			60 or 70	
1	IBM 8514 IBM 8515	31.5 35.5	60 or 70 87*	640x480 1024x768
2	NEC 2A	31.5 35.1	60 or 70 56	640x480 800x600
3	NEC II	31.5 35.1 35.5	60 or 70 56 87*	640x480 800x600 1024x768
4	NEC3D	31.5 35.5 37.8	60 or 70 87* 60	640x480 1024x768 800x600
5	Sony CPD-1304 NEC 3FGx Nanao 9065S Nanao 9070U	31.5 48.0 48.0 48.0	60 or 70 72 60 87*	640x480 800x600 1024x768 1280x1024
6	NEC 4D NEC4FG Nanao T240i	31.5 48.0 56.5 48.0	60 or 70 72 70 87*	640x480 800x600 1024x768 1280x1024
7	NEC 5D NEC 5FG/6FG Nanao T560i Nanao T660i Nanao F550i Nanao F750i Nanao 9400i	31.5 48.0 56.5 48.0	60 or 70 72 70 87*	640x480 800x600 1024x768 1280x1024

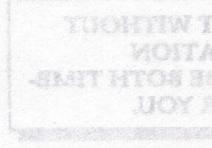
*interlaced

Appendix A: Troubleshooting

This section lists common problems that may be encountered and their possible solutions.

SYMPTOM	POSSIBLE REMEDY
System does not power up and the screen is blank.	<ul style="list-style-type: none"> • Ensure the VL-Bus SuperX is properly inserted in its slot. • Ensure you do not have another video card in the system using the memory address. If you do, you need to remove it from your system and try re-booting. Remember: the VL-Bus SuperX must be the primary video adapter (using two video adapters is not recommended). • Verify that switch settings and/or jumpers are properly set on your motherboard. Refer to Section Two for compatibility requirements. Move the J3 jumper (if present) on the VL-Bus SuperX to CLOCK 2 and try again.
The computer seems to boot, but there is no display.	<ul style="list-style-type: none"> • Confirm that your computer and monitor are plugged in. Check all power cables. • Check all cable and power cable connections and verify that the monitor is powered on. Adjust brightness and contrast controls correctly.

SYMPTOM	POSSIBLE REMEDY
The computer seems to boot, but there is no display (contd).	<ul style="list-style-type: none"> Verify that your monitor cable is the proper type. Ensure you do not have another video memory card in the system using the same memory address; if you do, you may need to remove it from your system and try rebooting. Remember: the VL-Bus SuperX must be the only or primary adapter. Verify motherboard switch and jumper settings. If your multi-frequency monitor has an Analog/Digital switch, make sure it is set to the Analog position. Examine your monitor display cable for broken or bent pins. Make sure your VL-Bus SuperX is installed in a VL-Bus slot.
Your monitor's display appears somewhat distorted when running a graphics application	<ul style="list-style-type: none"> Set the vertical hold properly on your monitor. Ensure that your current graphics application software has been properly installed.

SYMPTOM	POSSIBLE REMEDY
<p>Your monitor's display appears somewhat distorted when running a graphics application (contd.)</p> 	<ul style="list-style-type: none"> • Ensure that your monitor is capable of displaying the graphics mode you are using. Refer to your monitor specifications. • Ensure you are using the correct vertical refresh rate for your monitor. • If your monitor has vertical placement and size adjustment controls, try these controls to adjust the display. • Use CLMODE (Section Five) to match the monitor to the VL-Bus SuperX.
<p>You are unable to get the VL-Bus SuperX to work in your computer, but have found that it works well in another.</p>	<ul style="list-style-type: none"> • Refer to the preceding suggested remedies. If the VL-Bus SuperX functions properly in another system, it is likely the problem lies elsewhere. • Ensure that your computer is compatible with the VESA Local Bus specifications. • Ensure that your computer is completely compatible with IBM standards. Some machines do not support IBM-standard video BIOS requirements.

Appendix B: Servicing Your Boca Product

If your VL-Bus SuperX board requires service, first contact the authorized VL-Bus SuperX dealer from whom you purchased the board. If the dealer is unable to assist you, and you must contact Boca Research, Inc., please follow the instructions below. Our electronic BBS is available 24 hours a day at (407) 241-1601 and will support data transmission speeds up to 14.4Kbps with settings of N, 8, 1. If you have a modem, the BBS may be helpful (especially during off hours) if you have a question about product settings or compatibility, or if you wish to download driver software or utilities. You may also fax us at (407) 997-0918.

NOTE: CALLING TECHNICAL SUPPORT WITHOUT COMPLETE AND ACCURATE INFORMATION CONCERNING YOUR PROBLEM MAY BE BOTH TIME-CONSUMING AND FRUSTRATING FOR YOU.

- When calling Boca Research Technical Support, have the following information available:

- Exact board name/product code and board part number
- Software/driver revision level
- Computer model
- Operating system and version
- Computer manufacturer
- Peripherals in the system
- Contents of system's CONFIG.SYS

If you suspect a problem with a specific program or software package, make note of the name, version or release number, and manufacturer of the software. Also use CLMODE (see Section Five) to determine your VL-Bus SuperX's BIOS revision.

- Call Boca Research Technical Support Department between the hours of 8:00 a.m. and 6:00 p.m. Eastern time Monday through Friday at (407) 241-8088. A technical support specialist will be available to discuss the problem(s) you are experiencing. If it is determined that factory service is required, you will be given a Return Merchandise Authorization (RMA) number. Please place this number on the outside of the package when you return the item(s) for service and reference it on any correspondence included in the package. Boca Research, Inc. will return any product which is not accompanied by an RMA number.