

miroVIDEO 12PD

USER'S GUIDE

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miroVIDEO 12PD

User's Guide

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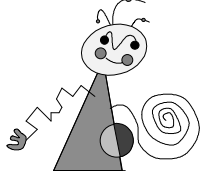
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Contents

ABOUT THE MANUAL **IV**

OVERVIEW **1**

FEATURES **1**

BEFORE YOU BEGIN **2**

SYSTEM REQUIREMENTS **2**

PACKAGE CONTENTS **2**

HARDWARE INSTALLATION **3**

INSTALLING miroVIDEO 12PD **3**

INSTALLING UPGRADE KIT **3**

 Removing miroVIDEO 12PD **4**

 Upgrading and installing miroVIDEO 12PD **4**

miroVIDEO 12PD & VIDEO **5**

INSTALLING VIDEO FOR WINDOWS **5**

THE miro SOFTWARE **5**

miroVIDEO-XL **6**

COMPLETE FUNCTIONALITY **6**

PLAYING BACK DIGITAL VIDEO SEQUENCES **6**

SOFTWARE INSTALLATION (CD-ROM) **7**

miroSETUP-Manager **7**

miro DRIVERS AND APPLICATIONS **8**

 miro drivers for Windows 95 **8**

 miro drivers for Windows 3.1x **9**

 miroVIDEO-Tools **9**

 Video for Windows Runtime **9**

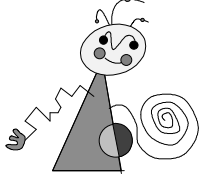
 XingMPEG Player **9**

 miro drivers for CAD **9**

DOCUMENTATION **10**

miro SMART MULTIMEDIA SOLUTIONS **10**

miro DRIVERS FOR OS/2 AND WINDOWS NT	11
miro drivers for OS/2	11
miro drivers for Windows NT 3.5x	11
<u>SOFTWARE INSTALLATION (DISK)</u>	12
OVERVIEW	12
miro DRIVERS AND miro TOOLS	12
General	12
INSTALLING THE MIRO DRIVERS FOR WINDOWS 3.1X	13
INSTALLING miro DRIVERS FOR WINDOWS 95	13
CAD DRIVERS	14
General	14
Installation	14
INSTALLING THE XINGMPEG PLAYER	15
<u>GTI 12 VGA</u>	16
CONFIGURING AUTOCAD FOR miroGTI 12 VGA	16
miroGTI 12 VGA MAIN MENU	16
COLOR MANIPULATION TOOL	17
ADDITIONAL CONFIGURATION	18
miroSPOTVIEW configuration	18
Fonts	18
Displaylist	18
Desktop colours	18
Desktop configuration	18
USING miroGTI 12 VGA	19
AutoCAD/miroGTI 12 VGA screen menu	19
<u>miro TOOLS</u>	20
miroWINTOOLS	20
miroSUPERSCREEN	20
miroTINT CONTROL	20
miroSIZE CALIBRATION	20
miroSCOPE	20
miroPINBOARD	20
miroVIDEO-TOOLS	21
miroBROWSER	21
<u>TECHNICAL DATA</u>	22



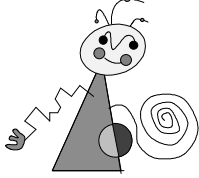
For your own safety

In the interest of your own safety and the flawless functioning of your new product and computer system please note the following:

- ♦ Before opening the computer make sure that the power plug is disconnected from the main socket.
- ♦ Computer components are sensitive to static charge. Divert any electrostatic charge from your person before touching the components with your hands or any tools.
- ♦ Make sure that the components you want to add to the computer are in compliance with the computer's characteristics.



For changes that have occurred after the manual has been printed, refer to the README file/s on the disk/s supplied with your system! In the Windows File Manager double-click the README file to get the latest information.



About the manual

This manual explains how to install and use the miroVIDEO 12PD hardware and software. It also contains many tips and tricks to make optimal use of miroVIDEO 12PD.

Subheadings

In the margins are subheadings to help you quickly find your way through this manual.



Important text passages are marked with the «notepad» and this format.

Numbers mark step by step instructions:

1. Start Windows.

Bullets mark instructions for optional steps the order of which is not important.

- Install the upgrade kit.

All keyboard commands appear in this font:

install<↵>

<↵> represents the enter key.

Menus, commands, options or buttons which the user can select are written in *italics*.



FEATURES

Thank you for purchasing the miroVIDEO 12PD graphics board. The powerful miroVIDEO 12PD graphics board has all capabilities regarding accelerated digital video playback.

☐ **Graphics acceleration**

The miroVIDEO 12PD graphics board is equipped with the Alliance ProMotion 6410 graphics processor to improve the performance of applications running under Windows.

☐ **Multimedia acceleration**

For digital video applications a video graphics processor is integrated in the graphics processor. This processor offers an optimal digital playback: it scales video to any size up to 1024 x 768 pixels—without jerky playbacks and frame losses. When enlarging video the pixels are not just multiplied but the additional pixels are calculated (interpolation), this technique achieves a very good image quality even at high resolutions.

☐ **DCI**

Video for Windows 1.1d supports Microsoft's new DCI technology (**D**isplay **C**ontrol **I**nterface). DCI allows the video software to directly access the miroVIDEO 12PD hardware and to accelerate the image refresh considerably. The GDI (Graphics Device Interface), which has been responsible for the image refresh up to this time, is omitted.

☐ **Video memory**

The miroVIDEO 12PD video memory allows to work efficiently with Windows as well as with CAD applications. The miroVIDEO 12PD has 1 MB of High-Speed DRAM (upgradeable to 2 MB).

☐ **Fast bus system**

There is a **P**(eripheral) **C**(omponent) **I**(nterconnect) version of the board.

☐ **Drivers**

miroVIDEO 12PD includes all of the necessary drivers to achieve the maximum performance from your system. In addition, the miro tools are provided.



Before you begin

SYSTEM REQUIREMENTS

To install miroVIDEO 12PD, your computer system has to meet the following requirements:

- Computer** A 486 or Pentium computer or compatible with a PCI Local Bus slot.
- Monitor** Standard VGA monitor. To receive all the benefits from miroVIDEO 12PD, you need a multifrequency monitor. miro offers suitable monitors.
- Software** Windows 3.1;
Windows for Workgroups 3.11
Windows 95.
- VGA** If a VGA board is already installed in your computer, you have to remove this VGA board before installing miroVIDEO 12PD. An existing motherboard VGA has to be deactivated.

PACKAGE CONTENTS

The package contents* of miroVIDEO 12PD consists of

- ♦ graphics board**
- ♦ disk set including
miro Windows drivers, miroWINTOOLS, miroVIDEO-Tools and
miroVIDEO-XL (CoDec for compressing, decompressing and playing
back image data)
- ♦ Runtime version of Video for Windows 1.1e (for Windows 3.1x only)
- ♦ documentation
- ♦ *optional*:
CAD drivers
OS/2 drivers
upgrade kit***.



Graphics boards are sensitive to static charge. To avoid damage that may occur by static charge, leave the graphics board in its antistatic packaging until installation. Keep the packaging for possible future transportation.

* Depending on the delivery scope, the actual package contents may be different from the package contents listed in the manual.

** For model and serial number of your miro graphics board, refer to the label on the graphics board.

*** The upgrade kit for upgrading the miroVIDEO 12PD with 1 MB additional memory is **optional**; it is only part of the package contents if you purchased it together with the graphics board. You can purchase the upgrade kit and upgrade your graphics board any time.



INSTALLING miroVIDEO 12PD

The only tool you need for the installation is a screwdriver. Proceed as follows:

1. Turn off your computer and all peripheral devices. Disconnect the computer from the power supply and all other components.
2. Loosen the screws of the computer's cover and remove it.
3. Discharge yourself of static charge by touching the power unit casing.
4. If there is one, remove the existing VGA board from your computer or deactivate the motherboard VGA.
5. Depending on your graphics board, select a free VL or PCI slot. Remove the slot's cover at the back of the computer. Save the screws of the cover.
6. Depending on the bus type, carefully insert the graphics board into the VL or PCI slot by holding the board at the top and gently pushing both ends into the slot at the same time. Press onto the upper edge of the board to make sure it is firmly seated in the slot.



Don't force the board into the slot! You run the risk of bending the contacts. If the board does not fit easily, pull it back out, and try again.

7. Fasten the board's bracket at the back of the computer using the screws you saved from the shield.
8. Put the cover back on the computer and reconnect the peripheral devices.
9. Connect the monitor with the 15-pin D-type socket. If you are in doubt about how to connect your monitor, please refer to the monitor documentation.
10. Reconnect the computer and the monitor to the power supply.

INSTALLING UPGRADE KIT

The optional upgrade kit allows you to easily upgrade the miroVIDEO 12PD from 1MB to 2 MB. After you have upgraded the video memory, you can take advantage of all the video modes a miroVIDEO 12PD board offers.

The miroUPGRADE KIT for miroVIDEO 12PD consists of two DRAMs with 512 KB each (with **70 ns**), which are inserted in the free sockets.

Removing miroVIDEO 12PD

If you have already installed the miroVIDEO 12PD in your computer, you have to remove it for upgrading the graphics board.

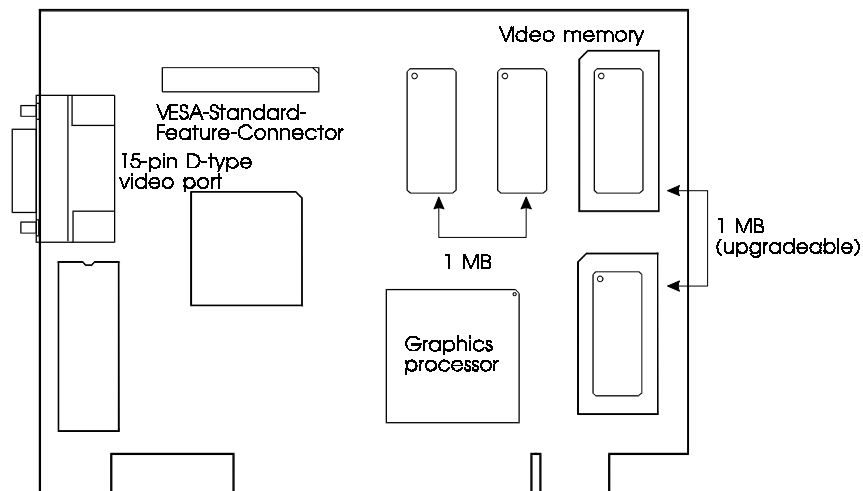
1. Power off your computer and all peripheral devices.
2. Disconnect the computer from the power supply and also disconnect all other cables.
3. Loosen the screws of the computer's cover and remove it.
4. Discharge yourself of static charge by touching the power unit casing.
5. Remove the cover of the miroVIDEO 12PD at the back of the computer. Save the screws.
6. Remove the graphics board **carefully** from the slot!

Upgrading and installing miroVIDEO 12PD

1. Remove the DRAMs from the packaging.



Make sure to align the upgrade components in a line with the memory components already installed. For this purpose, memory components have a small crescent-shaped gap, a round depression or a bevelled edge.



2. Align the memory components on the board in a line with the components already installed and insert the memory components carefully into the free sockets.



Make sure that you don't bend the pins of the memory components. The memory components must be firmly seated in their sockets!

3. Reinstall the miroVIDEO 12PD as described in the chapter «Installing miroVIDEO 12PD».
4. Install and reconfigure the application drivers.



miroVIDEO 12PD & Video

After you have installed your graphics board, you can proceed with the installation of the Video for Windows 1.1d Runtime version (for **Windows 3.1x** only)*.

INSTALLING VIDEO FOR WINDOWS**

Video for Windows 1.1e supports the Microsoft Windows DCI technology (**D**isplay **C**ontrol **I**nterface). DCI allows the video software to directly access the miroVIDEO 12PD hardware and to accelerate the image refresh considerably. The GDI (**G**raphics **D**evice **I**nterface) which was responsible for the image refresh up to this time is omitted.

To play back digital video...

To play back digital video AVI drivers are required. The supplied Video for Windows Runtime disk contains these drivers and a Setup program.

To install Video for Windows, proceed as follows:

1. If you have not done so already, start Windows.
2. Insert the *Video for Windows Runtime disk # 1/1*.
3. In the *Program Manager* open the *File* menu and select the *Run...* command.
4. Depending on your disk drive, enter **a:setup** or **b:setup**.
5. Follow the instructions on the screen.

After having installed Video for Windows, you can use the new Media Player for playing back digital video sequences.

THE miro SOFTWARE

After having installed Video for Windows you can install and, if necessary, configure the miroVIDEO 12PD system software and the required application drivers.

For a detailed description of the installation, the miro drivers and the miro tools, refer to the sections «Software installation» in this User's Guide.

* With Windows 95 you need not install Video for Windows.

** This installation describes the software installation from floppy disk. For detailed instructions on how to install the software from CD-ROM, refer to the chapter «Software installation (CD-ROM)».

miroVIDEO-XL

During the miro software installation the miroVIDEO-XL CoDec driver has been copied to the Windows system directory (default - C:\WINDOWS\SYSTEM). miroVIDEO-XL compresses and decompresses digital video.

Optimal playback

An optimal playback with miroVIDEO-XL is accomplished with video sequences that have been digitized using miro boards, e.g. miroVIDEO D1, miroVIDEO 10/20TD live or miro 40PV video and that have been saved in the miroVIDEO-XL format.

COMPLETE FUNCTIONALITY

After having installed the software you can use all miroVIDEO 12PD video features:

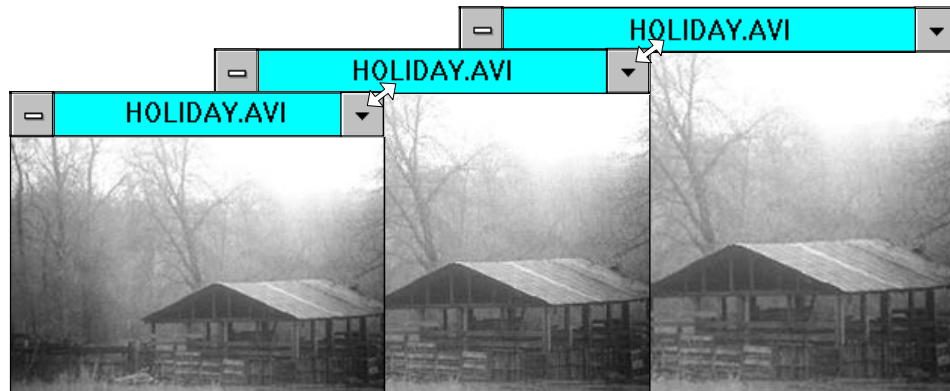
- ♦ digital video with 25 frames/second
- ♦ digital video in TrueColor at 800 x 600 pixels (2 MB video memory)
- ♦ digital video with 32768 colors at 1024 x 768 pixels
- ♦ continuous scaling of digital video
- ♦ jerk-free scaling of digital video
- ♦ enlargement without frame loss.

PLAYING BACK DIGITAL VIDEO SEQUENCES

To play back digital video sequences, open the Media Player in the Video for Windows window and select the *Open...* command in the *File* menu.



miroVIDEO 12PD allows you to scale video sequences to any size up to 1024 x 768 pixels.





Software installation (CD-ROM)

miroSETUP-Manager

To install the miro drivers and applications from CD-ROM under Windows 3.1x and Windows 95, you need the miroSETUP-Manager which is contained on the CD-ROM.

If other installation programs are started during the installation, the miroSETUP-Manager is minimized. To maximize the miroSETUP-Manager again, double-click the icon. After the installation is completed, restart Windows.

To start the miroSETUP-Manager, proceed as follows:

1. If you have not done so already, start Windows.
2. Insert the miro-CD-ROM in the CD-ROM drive.

Windows 3.x

3. In the Program Manager select the *File* menu and the *Run...* command.
4. Depending on your CD-ROM drive enter:
d:\miro_win<↵>
where **d:** is the drive letter for your CD-ROM drive.

Windows 95

3. In the *Dektop* select the *Start* menu and the *Run...* command.
4. Depending on your CD-ROM drive enter:
d:\miro_win<↵>
where **d:** is the drive letter for your CD-ROM drive.

**Windows 3.1x /
Windows 95**

5. Click *OK.*, to proceed with the installation.
Then you are in the *Language Seleccion* menu with the default setting *English*. By clicking *Information* you get information about the miroSETUP-Manager and its modules.
6. Click on *Install*. You are then in the *miroSETUP-Manager Module Selection*.

You have the possibility to install the miro drivers and programs and to view and print the documentation. In addition, you can install and use miro Smart Multimedia Solutions.

**Exit/
Back** The *Exit* button closes the miroSETUP-Manager, with the *Back* button you go to the previous window.

miro DRIVERS AND APPLICATIONS

In the *miroSETUP-Manager Module Selection* select *Drivers and Applications*.

Then you are in the *miroSETUP-Manager Drivers and Applications* menu. Here you can select which drivers and/or programs you want to install.

- | | |
|-----------------------|---|
| Information... | The <i>Information...</i> button gives you the required information on the installation of the driver/application you selected. |
| Install... | The <i>Install...</i> button starts with the installation of the selected driver/application. |
| Diskette(s)... | The <i>Diskette(s)...</i> button allows you to create installation diskettes. You have to do this, if you want to install the miro-CAD drivers. |
| Exit/
Back | The <i>Exit</i> button closes the miroSETUP-Manager, with the <i>Back</i> button you go to the previous window. |



To install the software correctly, **Windows** has to be configured for **VGA**.

miro drivers for Windows 95

The miro drivers for Windows 95 cannot be installed via the miro SETUP-Manager. To install the miro drivers for Windows 95, proceed as follows:

1. If you have not done so already, start your computer.
2. Double-click the program *My Computer*.
3. Double-click the *Control Panel*.
4. Click on *Display*.
5. Click the *Settings* folder.
6. Select *Change Display Type...* . The *Change Display Type* window appears. Here you can change the graphics board and the monitor type.
7. If necessary, click on *Change...* and click on one monitor in the list to select another monitor.
8. To select another graphics board, also click *Change...* .
9. Click *Have Disk...* to specify the disk drive from which you want to install the drivers: default is drive a:\. If the drivers are located on another drive, click *Browse* to change to the disk drive and if necessary, to the directory.
10. Select the graphics board, *Apply* and then click *OK*.

The computer is restarted and the new resolutions are available. After the restart the miro installation program starts automatically which allows you to install the miroWINTOOLS. The miroWINTOOLS have a detailed online help.

miro drivers for Windows 3.1x

If you want to install miro drivers for Windows 3.1x,

1. enable this menu item and click *Install...* . The miro installation program is started automatically. Follow the instructions of the installation program.

During the installation of the miro drivers the miroWINTOOLS have been copied to the hard disk and the miroWINTOOLS Program Group has been created. The miroWINTOOLS are provided with a detailed online help.

miroVIDEO-Tools

If you want to install the miroVIDEO-Tools,

1. enable this menu item and click *Install...* . The miro installation program is started automatically. Follow the instructions of the installation program.

The miroVIDEO-Tools are copied to your hard disk and the miroVIDEO-Tools Program Group is created. The miroVIDEO-Tools have a detailed online help.

Video for Windows Runtime

If you want to install Video for Windows Runtime,

1. enable this menu item and click *Install...* . The Video for Windows installation program is started automatically. Follow the instructions of the installation program.

Video for Windows will be copied to the hard disk and a Video for Windows Program Group will be created.

XingMPEG Player

If you want to install the XingMPEG Player,

1. depending on your Windows version, enable the *XingMPEG Player for Windows 3.x* or *XingMPEG Player for Windows 95** menu item and click *Install...* . The XingMPEG Player installation program is started automatically. Follow the instructions of the installation program.

miro drivers for CAD

To install the miro drivers for CAD, you need a formatted 3.5" diskette.

1. Enable *miro drivers for CAD* menu item.
2. Click the *Diskette(s)...* button, to create a 3,5" installation diskette.
3. Close the miroSETUP-Manager and quit Windows: the miro-CAD-drivers are always installed from the DOS level.
4. Insert this diskette into a disk drive.

* The XingMPEG Player for Windows 95 is not available at the time.

5. Depending on your disk drive, enter **a:\install<↵>** or **b:\install<↵>**.

6. Follow the instructions of the installation program.



Please note: you have to configure the miro CAD drivers after the software has been installed!

DOCUMENTATION

Use this menu item to install the Adobe Acrobat Reader which allows you to view and print the complete documentation.

If you clicked *Documentation* in the *miroSETUP-Manager Module Selection* window, the Adobe Acrobat Reader installation program starts.

1. To install Acrobat Reader, follow the instructions of the installation program.

After restarting the computer the Acrobat Reader Program Group is available which includes an icon for the detailed documentation in addition to the program icon.

2. Double-click the icon to open the documentation.

Printing To print a file, select the *File* menu and the *Print...* command.

Another language If you want to view/print the documentation in another language, select the *File* menu and the *Open...* command. You recognize the languages by the letters *_e* (English); *_d* (German), *_f* (French). You find all files in the *\MANUAL* directory.

Further module If you want to install further modules in addition to the Acrobat Reader, restart the *miroSETUP-Manager*.

miro SMART MULTIMEDIA SOLUTIONS

Use this menu item, to install and view miro Smart Multimedia Solutions.

If you clicked *miro Smart Multimedia Solutions* in the *miroSETUP-Manager Module Selection* window, miro Smart Multimedia Solutions are installed automatically and the corresponding Program Group is created.

To start miro Smart Multimedia Solutions, double-click the icon.

miro DRIVERS FOR OS/2 AND WINDOWS NT

The CD-ROM also contains OS/2 and Windows NT* drivers. You cannot install these drivers using the miroSETUP-Manager.

miro drivers for OS/2

To install the miro drivers for OS/2, create an installation diskette under Windows or install the miro driver directly from CD-ROM.

To install the miro drivers,

1. from the operating system level, enter the command
d:\disksets\os2\miroinst.cmd d:\disksets\os2\ c:<↵>,
where **d:** is the drive letter of your CD-ROM drive and **c:** the drive letter of your OS/2 hard disk.

For detailed information on the installation and the configuration, refer to the README.ENG file on the CD-ROM in the OS2 directory.

miro drivers for Windows NT 3.5x

To install the miro drivers for Windows NT 3.5x*,

1. start the *Control Panel* from the *Main* group and double-click the *Display Tool* icon.
2. In the *Display Settings* window, click on *Change Display Type*.
3. Click *Change...*
4. Windows NT 3.5x shows you an overview of all installed drivers. Select *Other*.
5. You are requested to insert a diskette. To install the drive from CD-ROM overwrite the default with **d:\disksets\win_nt** where **d:** is the drive letter of your CD-ROM drive.
6. Follow the instructions Windows NT gives you.

For detailed information on the installation and the configuration, refer to the README.TXT file on the CD-ROM in the WIN_NT directory.

* The driver may be not available at the time.



Software installation (disk)

OVERVIEW

After having installed the miro graphics board in your computer, you can install the miro drivers for Windows and CAD and select your monitor.



Before beginning with the installation, make backup copies of the supplied installation disk(s) using the DOS **DISKCOPY** command. Keep the original disks in a safe place and only use the copies.

miro DRIVERS AND miro TOOLS

General

Requirements To install the software correctly, **Windows 3.1x / Windows 95** has to be installed for **VGA**. In addition, you need 3 MB memory on your hard disk.

Windows drivers The miro Windows drivers (drivers for Windows 3.1x / Windows 95) were especially developed for Windows users. Together with the miro graphics boards the drivers allow to fully utilize this graphical user interface and the applications based on it.

miroWINTOOLS The miro•win disks also include the miroWINTOOLS which can be copied to the hard disk during the installation. For a short description of the miroWINTOOLS, refer to the corresponding chapters in this manual.

miroVIDEO-Tools You find the miroVIDEO-Tools on the corresponding disk. The installation is easy. For an overview refer to the chapter «miro tools».

Result of the installation The required files will be copied to your hard disk into the Windows directory and, if possible, to the Windows system directory. The miro tools will be located in the miroWINTOOLS Program Group and in the miroVIDEO-Tools Program Group.

If you only install the Windows drivers, only miroMONITOR SELECT, miroSUPERSCREEN, miroPINBOARD and miroTINT CONTROL will be located in the miroWINTOOLS Program Group. They can always be started after the installation. The installation program modifies the WIN.INI, SYSTEM.INI and CONTROL.INI files.

INSTALLING THE miro DRIVERS FOR WINDOWS 3.1X

To install the miro drivers for Windows 3.1x, proceed as follows:

Installing

1. Start Windows.
2. Insert the miro•win High speed drivers for Windows disk into the disk drive.
3. Select in the Program Manager the *File* and the *Run...* command.
4. Depending on your disk drive enter:
a:install or **b:install** and click *OK*.
After starting the installation program the *Language Selection* menu appears in English (default setting).
5. Click on *Install* to continue the installation.
6. Select the items you want to install.
7. Click on *Install*. All file are now copied to the hard disk.
8. To finish the installation, restart Windows.

miro SUPERSCREEN

Nach dem Neustart von Windows erscheint automatisch das Symbol von miroSUPERSCREEN. Double-click the icon to change the settings: resolution, color depth, monitor, fonts and cursor color.



Change the monitor's settings first!

For detailed information on the settings refer to the online-help of miroSUPERSCREEN.

INSTALLING miro DRIVERS FOR WINDOWS 95

Before installing the miro graphics board under Windows 95, first read the README file(s) on the miro•win disk(s) included in the miro package.

To install the miro drivers for Windows 95, proceed as follows:

1. If you have not done so already, start your computer.
2. Double-click the program *My Computer*.
3. Double-click the *Control Panel*.
4. Click on *Display*.
5. Click the *Settings* folder.
6. Select *Change Display Type...* . The *Change Display Type* window appears. Here you can change the graphics board and the monitor type.
7. If necessary, click on *Change...* and click on one monitor in the list to select another monitor.
8. To select another graphics board, also click *Change...* .
9. Click *Have Disk...* to specify the disk drive from which you want to install the drivers: default is drive a:\. If the drivers are located on another drive, click *Browse* to change to the disk drive and if necessary, to the directory.
10. Select the graphics board, click *Apply* and then click *OK*.

The computer is restarted and the new resolutions are available. After the restart the miro installation program starts automatically which allows you to install the miroWINTOOLS.

Please note: miroVIDEO graphic boards need an IRQ for the configuration. For further information, please refer to your computer's documentation.

CAD DRIVERS

General

The powerful miroGTI 12 VGA displaylist driver for AutoCAD 11/12/13 is optionally available.

When installing the CAD drivers, please do so in the following order:

1. Install the drivers you need for your applications, using the installation program.
2. **Then**, configure the installed drivers, if necessary.

Installation

The system software and the miro drivers are always installed from the DOS level.

To install the miro drivers, proceed as follows:

1. Insert the miro•win High speed drivers for CAD disk in the disk drive.
2. Depending on your disk drive enter: **a:install** or **b:install** <↵>

After starting the installation program the *Language Selection* menu appears in English (default setting). Accept the default setting with the enter key or overwrite it. Now, you are in the Main Menu.

The installation program is operated via the keyboard. The bottom line shows the keys to operate the installation program.

To mark a menu item, move the cursor bar to the menu item using the arrow keys and press the space key. To perform the action, press <↵>. Presettings (YES/NO) can be changed using the space key.

3. Select the miro graphics board for which you want to install the CAD drivers. Make sure to select the correct board.

By clicking the enter key you go to the driver selection menu.

Select the desired drivers for your applications; change the presettings from *NO* to *YES* using the space key.

The *Only uninstall all software* option deletes all files copied to the hard disk during a previous installation.



Do not forget to set the presettings of the desired miro drivers from *NO* to *YES*. To install the desired drivers, press the enter key **after** you have changed the presettings of **all** selected drivers.

4. Accept or overwrite the default settings.

By default, the system software is copied to the system directory of your miro graphics board, the miro application drivers are copied to the drive of the applications.

The installation program modifies the AUTOEXEC.BAT file. The original version is saved under AUTOEXEC.BAK.

After having installed the miro CAD drivers, these have to be configured.

Information on the configuration and a short description of the functions are contained in the chapter «miroGTI 12 VGA».

INSTALLING THE XINGMPEG PLAYER

If you want to install the XingMPEG Player,

1. Insert the installation disk into the disk drive.
2. Depending on your disk drive enter: **a:setup** <↵> oder **b:setup** <↵>.

The XingMPEG installation program is started automatically.

3. Follow the instructions of the installation program.

Result of the installation	The XingMPEG Player is located in the corresponding program group (Windows 3.1x) / in the corresponding folder (Windows 95).
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Starting XingMPEG Player	<i>Windows 3.1x</i> Start the XingMPEG Player by double-clicking the icon in the program group. <i>Windows 95</i> Under Windows 95 you start the XingMPEG Player Player via the <i>Start</i> menu and the command <i>Programs</i>.
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miroGTI 12 VGA is a powerful display and rendering driver, which is compatible with the Autodesk Device Interface (ADI) 4.2. miroGTI 12 VGA operates as a displaylist driver that stores the picture sent by AutoCAD in a displaylist.

CONFIGURING AUTOCAD FOR miroGTI 12 VGA

Before using miroGTI 12 VGA with your AutoCAD program, you have to reconfigure AutoCAD.

1. Load miroGTI 12 VGA.
2. Start AutoCAD.
Now you see the Drawing Editor.
3. From the *File* menu select *Configure*.
4. Switch to the *Configuration* menu and select from the video displays depending on your miro graphics board: *miroGTI 12 for VESA-VGA*.
5. Answer AutoCAD's default questions concerning the driver configuration.



If you want to configure your digitizing tablet using AutoCAD, you can turn off the zoom and the pan menu using the configuration program.

The *AutoCAD screen menu* appears, complemented by some additional functions of the miroGTI 12 VGA. Among others the *miroGTI 12 VGA main menu* can be called up there. It gives you access to all driver features. miroGTI 12 VGA, installed with a default configuration, can be configured individually to your liking.

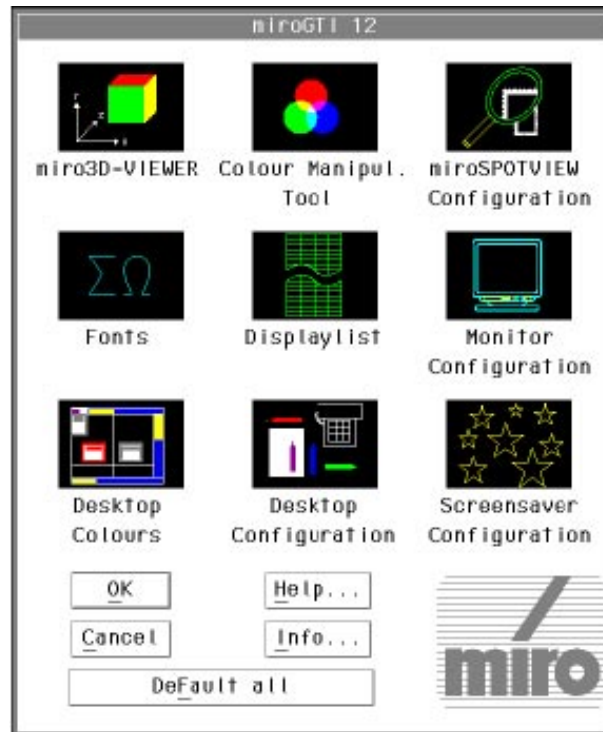
miroGTI 12 VGA MAIN MENU

You may call the driver menu in different ways:

- a) by clicking the item miroGTI in the AutoCAD/miroGTI 12 VGA screen menu,
- b) by simultaneously pressing the <Ctrl> and the <L> key,
- c) by typing **ami_menu** or **ami_gti**.

The miroGTI 12 VGA main menu is the device to

- ♦ call the Color Manipulation Tool
- ♦ configure the driver as you desire
- ♦ call the miroGTI main menu.



The configuration of the miroGTI 12 VGA is done with the help of dialog boxes. Concerning the design and functionality they correspond to the dialog boxes of AutoCAD. In a dialog box you can select options, enter text or define settings. Each dialog box offers a context-sensitive help feature, displaying the information you need on the screen.

Among others the miroGTI 12 VGA main menu consists of icons for the driver parameters that can be configured additionally. The changes take effect without restarting AutoCAD. After clicking the different icons the menu branches off to another menu level:

COLOR MANIPULATION TOOL



The *Color Manipulation Tool* lets you mix up to 246 colors (256 minus 10 AutoCAD colors) out of a palette of 16.7 mill. to your liking. The new colors can be saved in a file. That can be very helpful if you want the colors of a rendered graphics to be displayed as true to the original as possible. Having called the tool by clicking the icon in the *miroGTI 12 VGA main menu* a matrix with the colors that can be changed appears.

miroSPOTVIEW configuration



This option allows you to change the size, position and the zoom factor of miroSPOTVIEW in a dialog box. After starting AutoCAD, the position of miroSPOTVIEW is set by using the sliders for the x- and the y-coordinates. Alternatively, you can enter the x- and the y-coordinate in the respective text box. The size of miroSPOTVIEW is determined by using the size slider or entering a value in the text box Size. The zoom factor is specified by using the respective slider or by entering the value in the text box Factor. The zoom factor is independent of the size of the SPOTVIEW window and can be set to values between 1 and 100.

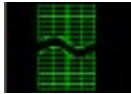
Fonts



Selecting this option lets you choose a different screen font for the text on the entire AutoCAD screen. A list of available screen fonts is displayed. The number in the text box Codepage specifies the codepage which AutoCAD currently uses.

A codepage is a defined alphanumeric character set. Under MS DOS a codepage is used for installing country-specific character sets. The name of the current and the new font is shown in the dialogue box as well. During the installation the available fonts have been copied to the directory with the system files. Using the miro font compiler makes it possible to choose Windows TrueType fonts and create the corresponding fonts for your graphics board.

Displaylist



The displaylist functions of miroGTI 12 VGA can be enabled or disabled. If you have deactivated the displaylist processing the driver behaves like a normal ADI driver.

Desktop colours



This item allows you to choose colors for the AutoCAD screen area (graphics area, alert box, menu bar, Cursor etc.) to your liking. The configurable elements of the screen which can take on a different color are shown in a graph.

Desktop configuration



In this dialog box select your AutoCAD 12 monitor's individual configuration, for example color scheme emulation, use of the hotkeys, resolutions, etc. miroGTI 12 VGA allows you to make these changes without having to leave AutoCAD 12 or the drawing editor.

After having installed the driver for use with your Autodesk application and having configured the application and the driver, you can run your Autodesk program on your miro graphics system.

1. Initialize your graphics board and load the driver as is described under «Configuring AutoCAD for miroGTI 12 VGA».
2. Start AutoCAD.

AutoCAD/miroGTI 12 VGA screen menu

After you have started the program the AutoCAD screen you are used to will have some additional functions. The menu items miroGTI 12 VGA offers allow you to control the program and to check its status. In addition to the current color you can check the *displaylist size* as well as the *size* and *position of the current detail* on the screen.

Status check *Displaylist size indicator:*

In the upper right-hand corner of the screen you see the *displaylist size indicator* which tells you how much amount of memory is occupied by the displaylist.

Display of the current detail:

In the bottom part of the screen you will see either the miro logo or the size and position of the current detail. In this case a white frame states the greatest expansion of the current display list. A crosshair shows the middle, a white rectangle the size of the current viewport.

The miro logo is shown instead of the current detail if the displaylist ZOOM factor equals 1. The same holds true when you are dealing with a so-called non-zoomable viewport. This special marker is only assigned by AutoCAD 11/12, for example for presentations in perspective.

Function control

Vmax:

The zoom command Vmax corresponds to the AutoCAD 12 command **Zoom Vmax** (Zoom to Virtual Screen Maximum).

Ext

The zoom command Ext corresponds to the AutoCAD 12 command **Zoom Extents**.

W:

The zoom command W is analog to the AutoCAD command **Zoom Window**.

miroGTI 12 VGA:

By clicking this menu item you switch to the main menu.

Pan:

When you point the cursor to the arrow symbols and press the pick button the detail is moved 1/3 in the direction of the arrow.

Zoom-:

When you point the cursor to the (-) symbol and press the pick button, the driver goes to the next lower zoom level.

Zoom+:

When you point the cursor to the (+) symbol and press the pick button, the driver goes to the next higher zoom level.



miroWINTOOLS

The miroWINTOOLS have been copied to your hard disk and located in the miroWINTOOLS Program group—provided that you selected them during the installation. The functionality of the miroWINTOOLS is explained in the on-line help.

miroSUPERSCREEN

miroSUPERSCREEN configures the Windows desktop for miro graphics boards. miroSUPERSCREEN is a permanent part of the miro driver installation.



Not all miro graphics boards can utilize the complete range of miroSUPERSCREEN functions. The functions which are not supported are dimmed and cannot be selected.

miroTINT CONTROL

miroTINT CONTROL changes the monitor's tint.

miroSIZE CALIBRATION

miroSIZE CALIBRATION adjusts the dots per inch (DPI) on your monitor so that one inch or one centimeter on the monitor matches exactly one inch or one centimeter on the print-out. miroSIZE CALIBRATION is especially useful when a true-to-scale display is necessary: DTP and CAD applications.

miroSCOPE

miroSCOPE is a kind of magnifying glass. miroSCOPE enlarges the area around the current cursor position.

miroPINBOARD

miroPINBOARD is a tool which facilitates working on the Windows desktop.

miroVIDEO-TOOLS

For the installation of the miroVIDEO-Tools you need the corresponding disk.

miroBROWSER

miroVIDEO-Zoom is a tool which allows you to find, view, and edit multimedia files.

If your system is equipped appropriately, you can view the following file types:

- ♦ videos in the AVI format (no .DAT)
- ♦ animations in the FLI and FLC format
- ♦ sounds as WAVE and MIDI files
- ♦ different image formats.



Technical Data

Bus system	miroVIDEO 12PD for PCI Local Bus
Compatibility	VGA register-compatible CGA register-compatible MDA register-compatible
Graphics processor	Alliance ProMotion 3210 / 6410 for PCI Local Bus* up to 33 MHz clock frequency
Video memory	1 MB DRAM (upgradable to 2 MB)
Power supply	+5 V, max. 1 A
Video timings	<i>Horizontal scan frequency:</i> 31 kHz to 80 kHz, depending on operating mode <i>Vertical scan frequency:</i> 56 Hz to 75 Hz, non interlaced, depending on operating mode <i>Pixel frequency:</i> 25 MHz to 130 MHz, depending on operating mode.

Video modes (with 1 MB DRAM)

Resolution		Maximum vertical scan rate					
		100 kHz	82 kHz	64 kHz	58 kHz	48 kHz	35 kHz
1152 x 864	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	-	-
1024 x 768	75 Hz	75 Hz	75 Hz	70 Hz	60 Hz	-	-
800 x 600	75 Hz	75 Hz	75 Hz	75 Hz	75 Hz	75 Hz	56 Hz
640 x 480	75 Hz	75 Hz	75 Hz	75 Hz	75 Hz	75 Hz	60 Hz

Video modes (with 2 MB DRAM)

Rsolution		Maximum vertical refresh rate					
		100 kHz	82 kHz	64 kHz	58 kHz	48 kHz	35 kHz
1280 x 1024	75 Hz	75 Hz	60 Hz	-	-	-	-
1152 x 864	75 Hz	75 Hz	70 Hz	60 Hz	-	-	-
1024 x 768	75 Hz	75 Hz	75 Hz	70 Hz	60 Hz	-	-
800 x 600	75 Hz	75 Hz	75 Hz	75 Hz	75 Hz	75 Hz	56 Hz
640 x 480	75 Hz	75 Hz	75 Hz	75 Hz	75 Hz	75 Hz	67 Hz

Options Upgrade kit

Adress range miroVIDEO 12PD uses the following addresses:

3BAh	3C4h - 3CAh
3C0h	3CEh - 3CFh
3C2h	3D4h - 3D5h
3CCh	3C4h - 3CAh

In addition, the board uses the following VGA adress range:

VGA Videospeicher	VGA BIOS
0A0000h - 0BFFFFh	0C0000h - 0C7FFFh

* Depending on the delivery scope, miroVIDEO 12PD is delivered with the Alliance ProMotion 3210 / 6410 graphics processor.