# PenCam Plus




## Manual

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@n IP Company

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# General Information

## General Safety Information

- To prevent operating malfunctions, keep the camera dry and free of dust. Do not place the camera in direct sunlight or near excessive heat.
- Place and operate the camera from a stable, even and vibration free area. Use the camera stand to prevent the camera from accidentally falling.
- Install the USB-Cable so that no one can accidentally step on or trip over the cable.
- To prevent damage to the USB-Cable, do not place any items on the cable.
- Operate the camera only in areas when the outside temperature ranges between 32°F (0°C) - 104°F (40°C) and the humidity ranges between 20% and 80%.
- When the camera is not in operation, it may be stored in places where the temperature ranges between –4°F (-20°C) – 158°F (70°C) and the humidity ranges from 20% - 90%.
- To prevent damage or lose of data, keep the camera at least one meter away from high frequency or magnetic devices.



## Maintenance and Repair

- Keep the lens free of water, dirt and dust. Use a soft, dry cloth to clean the lens.
- Use a damp cloth to clean the camera. Do not use any cleaning solutions or other chemical cleaning fluids.
- To prevent damage to the camera, do not open the camera as this may cause damage to the sensors or possibly an electronic short
- When:
    - The camera does not operate properly
    - The camera or housing has become damaged
    - Liquid has entered the camera

  Please contact our customer service.

# Introduction

## Contents

Please check that the contents of this package are complete. If something is missing please contact our customer service

- Digital-Camera "PenCam Plus"
- Camera stand and base
- Carrying strap
- USB-Cable
- 2 Alkaline-Batteries, Type AA
- 2 CDs with installation and support software
- Guarantee Certificate
- Quick start instruction guide

## System Requirements

- Pentium-Processor with at least 200MHz or compatible Processor
- 32MB SDRAM Memory (64MB recommended)
- Graphics adapter with at least 2MB RAM and 24Bit true color
- 4x CD-ROM-Drive
- 1 free USB-Port
- Windows 98SE, ME, 2000, XP



## Technical Specifications

| | |
|---|---|
| **Sensor-Type:** | CMOS-Color sensor (1280x1024 Pixel)<br>16.8M Colors (24Bit) |
| **Resolution:** | SXGA (1248x960 dpi)<br>VGA (640x480 dpi) |
| **Memory capability:** | 64 MBit SDRAM (for Videos)<br>128MBit Flash-Memory (for pictures) |
| **Number of pictures:** | ca. 50 Pictures SXGA (1248x960 Pixel)<br>Ca. 160 Pictures VGA (640x480 Pixel) |
| **File format:** | JPEG |
| **Video frames per second:** | Battery operation:<br>10 pictures / Second at 624x480<br>max. 10 Seconds capture<br>10 pictures / Second at 304x240<br>max. 30 Seconds capture<br>PC-Camera:<br>10 pictures / Second at 624x480<br>20 pictures / Second at 304x240 |
| **Focal length:** | 9.8mm |
| **Shutter:** | 3.0 |
| **Interface:** | USB |
| **Power requirements:** | 2x AA Batteries (1.5V, Alkaline)<br>When connecting the camera to the pc, power is supplied by the USB-Port |
| **Battery capability:** | ca. 400 pictures or approx. 10 days in the Standby-Mode |

# Getting Started

## Installing the Batteries

To install the batteries, open the battery compartment at the bottom of the camera and insert the batteries in the slots provided, according to the polizeration marked on the metal clip located beneath the compartment cap.

**Please note the following:**

- Please use only ALCALINE batteries with the camera. Normal Zinc-Carbon Batteries could become hot while in use and damage the camera.
- The camera requires power even when the camera is switched off (Stand By mode). Therefore it is recommended to remove the batteries when the camera is not to be used over longer period of time.
- Pictures will be stored to the internal Flash memory and will remain saved when the batteries are removed.
- Videos will be saved to the internal SDRAM-Memory and will be erased when the batteries are removed. Therefore it is recommended to download and save the videos to the computer before removing the batteries.
- When the camera is connected to the USB-Cable it draws power from the USB-Port. The batteries can now be changed and the videos will not be erased.
- A set of alcaline batteries should last for approx. 400 pictures or approx. 10 days in the stand by mode.
- The camera will switch to the stand-by mode automatically after 60 seconds.



## Operation With a Rechargeable Batteries

It is possible to use rechargeable batteries. Do to the low voltage processed by rechargeable batteries; using them could cause the normal operating time to be reduced. It is therefore recommended to test the life of your rechargeable batteries under normal operating conditions. It is also recommended that you use Nickel Cadmium batteries.

## Installing the Stand

If you wish to use the camera as a pc-camera use the included stand to support the camera while in use. You can adjust the position of the camera by turning the camera (in the stand) to the left or right and forward or backward as necessary.

# Operating the Camera

## Introduction

With the PenCam Plus, short video sequences can be taken and via. the USB Cable transferred and saved to the computer. You can use the included software to edit or change the data as desired.

There are two memory types for saving captured data:

- 128Mbit Flash-Memory, used to save pictures even when the batteries are removed or if the camera has been switched to the ”off” position.
- 64MBit SDRAM, to save video data. The memory will be erased when the batteries are removed or if the camera has been switched to the ”off” position.

The camera offers two resolutions for taking pictures:

- High resolution = 1248x960 Pixel.
  Using this resolution, approx. 50 pictures can be taken.
- Low resolution = 640x480 Pixel.
  Using this resolution, approx. 160 pictures can be taken.

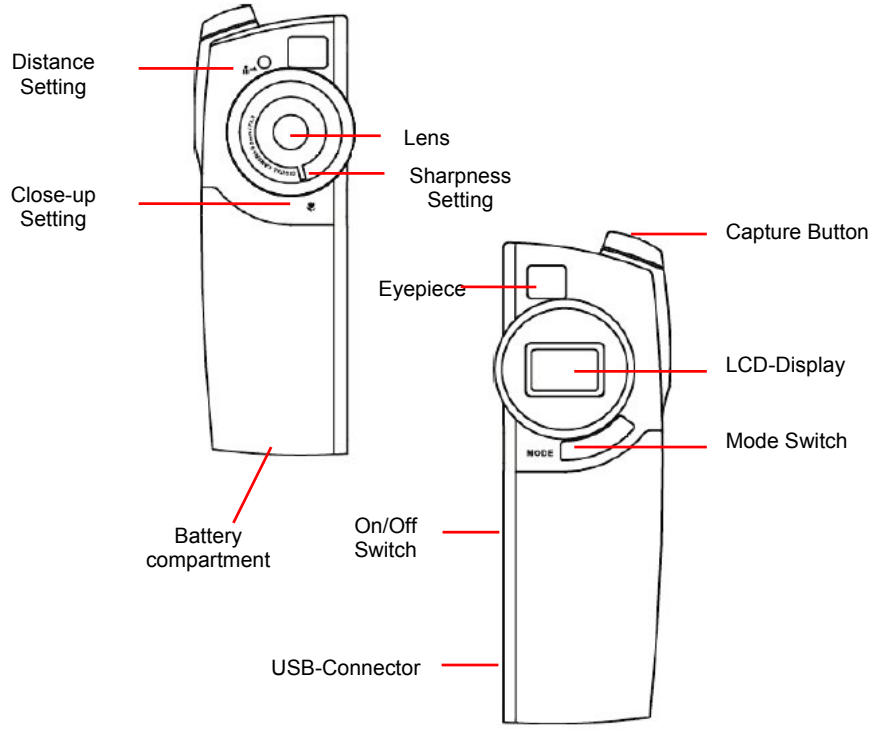
**Note:** The pictures will be internally compressed when saved. The degree of compression and memory space may vary, depending on the motive. Due to this fact, the maximum number of available pictures may vary.

The camera offers two resolutions for capturing videos:

- High resolution = 624x480 dpi.
  Using this resolution, a 10 sec. Video can be captured.
- Low resolution = 304x240 dpi.
  Using this resolution, a 30 sec. Video can be captured.



## Operating Controls

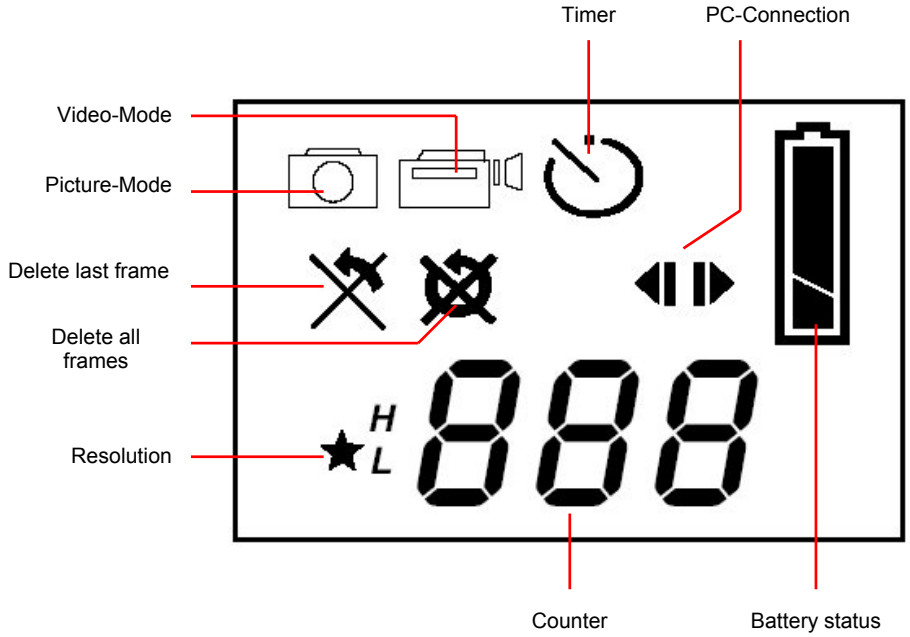



## Turning the Camera On / Off

Switch the on/off switch to ”on” to turn the camera on. An acoustic signal should be herd and the LCD-Display should also come on.

- The camera will switch to the stand-by mode automatically after 60 seconds.
- If you switch the on/off switch to “off“ all videos will be erased.

## Description of the LCD Display




## Battery Status



This symbol shows the battery status being full.



When this symbol appears, the batteries are low and need to be replaced.

- When the Battery status blinks, no functions will be available and the batteries must be replaced.



## PC-Connection



This symbol will appear when the camera has been connected to the PC via. USB Cable. Power will then be provided from the PC. To extend the life of the batteries, remove them from the camera.

## Counter



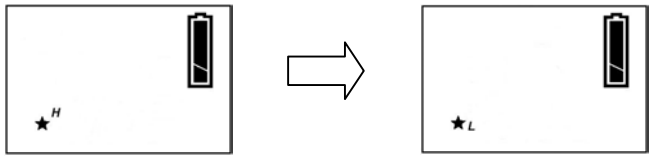
The counter shows the number of pictures and videos taken.

When the camera is in the camera mode, the number of pictures taken will appear. When the camera is switched to the video mode, the amount of videos taken will appear.

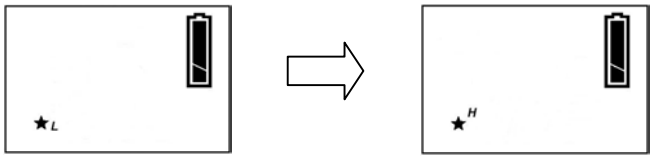
The counter functions as a seconds counter when capturing videos.

- When the display starts to blink, the captured data is now being stored to the memory and the camera cannot be used.

## Resolution Settings



To switch to the Low-Resolution, press the Mode-Button until the Star symbol with ”H” appears, then press the Capture-Button. An “L” will now appear. Press the Mode-Button once again to confirm the change.



To switch to the High-Resolution, press the Mode-Button until the Star symbol with ”L” appears, then press the Capture-Button. An “H” will now appear. Press the Mode-Button once again to confirm the change

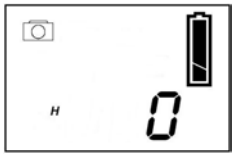
## Distance Settings

**Close up**: Set the ring to this position when the distance between the camera and motive is approx. 40 cm

**Distance:** Set the ring to this position when the distance between the camera and motive is between 2,50 m – indefinite.

You can adjust the sharpness of your pictures by turning the ring to one of these positions, depending on the distance to the motive (**40cm - 250cm)**.

## Taking Pictures



Press the mode button until the camera symbol appears in the display.

Press the capture button to take a picture.
While the picture is being saved to the memory, the counter will blink. During this phase no functions are available.

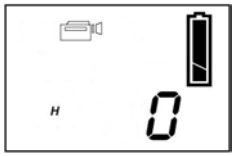


The counter shows the number of captures saved. When no more memory space is available, the counter will blink and the capture button will not function.

For the saving of pictures, the camera is equipped with an internal 128Mbit Flash Memory. You can save approx. 50 pictures in the 1248x960 dpi resolution and approx. 160 in the 640x480 dpi resolution.

**Note:** The pictures will be internally compressed when saved. The degree of compression and memory space may vary, depending on the motive. The maximum number of pictures available may vary due to this.

## Capturing Videos



Press the mode button until the video camera appears in the display.

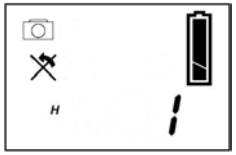
Press the capture button to start the recording. To stop the recording, press the capture button once again.

During the recording the counter will show the number of seconds recorded. When no more memory is available the camera will automatically stop the recording.

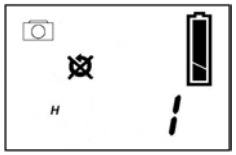
The camera saves recordings to the internal 64Mbit SDRAM memory. You can record for approx. 10 seconds when using the 624x480 Pixel resolution and approx. 30 seconds using the 304x240 Pixel resolution

## Erasing Pictures and Recordings

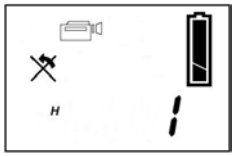
The camera offers to methods of erasing pictures or recordings: either one at a time (the last picture taken) or all at once.



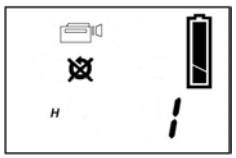
**Erasing one picture at a time:**
Press the mode button until the picture, as shown at the left, appears in the display.
Then press the capture button. The display will blink.
Press the capture button again and the last picture will be erased.
Repeat this process as necessary.



**Erasing all pictures at once:**
Press the mode button until the picture, as shown at the left, appears in the display.
Then press the capture button. The display will blink.
Press the capture button again and all pictures will be erased.



**Erasing one video at a time:**
Press the mode button until the picture, as shown at the left, appears in the display.
Then press the capture button. The display will blink.
Press the capture button again and the last video will be erased.
Repeat this process as necessary

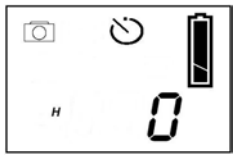


**Erasing all videos at once:**

Press the mode button until the picture, as shown at the left, appears in the display.
Then press the capture button. The display will blink.
Press the capture button again and all videos will be erased.



## Timer



Press the mode button until the timer symbol appears in the display. Then press the capture button and approx. 10 seconds later the picture will be captured. An acoustic signal will be heard while waiting.

## Tips for Taking Good Pictures

- Place your motive in the middle of the eyepiece and insure that the light source is behind the camera.
- Adjust the sharpness ring (flower or mountain) depending on the distance to the motive.
- Hold the camera steady and press the capture button. Due to the sensitivity of the sensors, moving could cause the picture to become blurred.
- Do not cover the lens with your hand or finger.
- Keep the lens clean and free of dust and water. Use a clean dry cloth to clean the lens.

# Installing the software

## Installing the AVI-Decoder

The AVI-Decoder is required if you desire to save Video-Data using the Proprietary-Format
To install the AVI-Decoder, do the following:

Place the “Mega Camera” CD into the CDROM drive and click on START / RUN and enter “D:\avidecode.exe in the space provided. Exchange the “D” to correspond with your CDROM – Drive letter. Press RETURN.

## Installing the Mega Cam Manager

**! Do not connect the Camera to the USB port until the Camera-Manager has been completely installed !**

- **The camera cannot be used with Windows 95 or NT**
- **If using Windows 98, be advised that the SE (Second Edition) is required.**




Place the “Mega Camera” CD into the CDROM drive, the CD should start automatically. If the setup window does not automatically appear, click on START / RUN and enter “D:\setup.exe in the space provided. Exchange the “D” to correspond with your CDROM–Drive letter. Press RETURN.

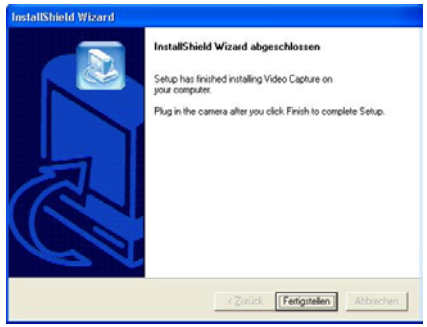




Click on the “eye” symbol to start the installation

Follow the installation wizard’s instructions.

The necessary data will be copied to the hard drive.




Once instructed to do so, click on “finish” to complete the installation

**Attention Windows 2000 and XP users!**

Depending on your system configuration, the following message may appear. Click on “continue anyway” to continue the installation.



## Installing the Camera under Windows 98SE / ME

To start the camera installation, connect the PenCam Plus to the computer.

- Use the USB cable provided.

**Note**: Insure that the camera is turned off before connecting it to the USB - Cable.

Connect the smaller end of the USB -Cable to the USB-connection port of the camera. Connect the larger end of the USB-Cable to a free USB-Port located on the back of the computer

Windows should automatically recognize the newly attached hardware and launch the Hardware assistant.

The Hardware-Assistant will automatically look for drivers and integrate the components into the system.

- The Driver consists of three components which windows will install one after the other:

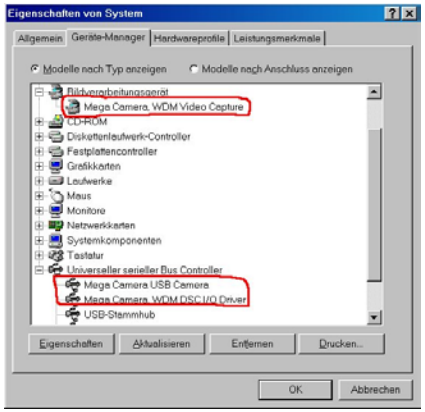
| | |
|---|---|
| Capture devices: | Mega Camera, WDM Image Capture |
| USB-Controller: | Mega Camera, WDM DSC I/O Driver |
| | USB-Device *or* MegaCamera USB Camera |

The installation is complete when all three driver-components have been properly installed. The camera can now be used.



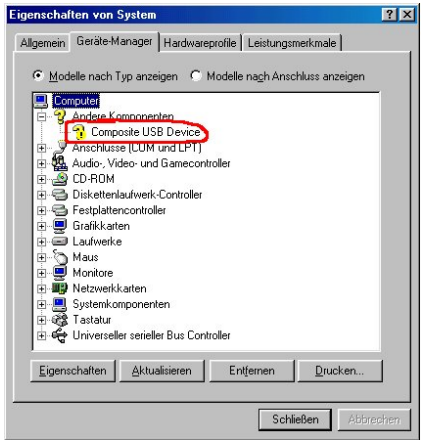
## Additional Installation Information using Windows 98SE / ME

After proper installation of the drivers, the three components can be found in the device manager




**Device Manager:**

To find the Device Manager click on: Start → Control Panel → System → Device Manager




If for some reason the driver installation has failed or Windows could not recognize the camera, a yellow circle with an "!" or "?" will appear before the device entry.

Refreshing the driver using Windows 98SE/ME is not possible. Because of this the driver must be completely removed and reinstalled.

Select the device marked with a "!" or "?" and press the "delete" button. Confirm you action by pressing "OK". You will then be instructed to reboot the computer. Press "OK" to reboot now or "cancel" to reboot at a later time.

Uninstall the Mega Camera Manager: Click on Start → Programs → Mega Camera Manager → Uninstall Mega Camera Manager.

Disconnect the USB cable from the camera and reboot the computer. After the computer has rebooted, reinstall the Mega Camera Manager.

## Installing the Camera under Windows 2000 / XP

To start the camera installation, connect the Mini PenCam to the computer.

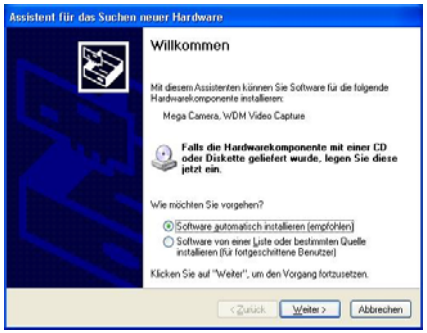
- Use the USB cable provided.

**Note**: Insure that the camera is turned off before connecting it to the USB - Cable.

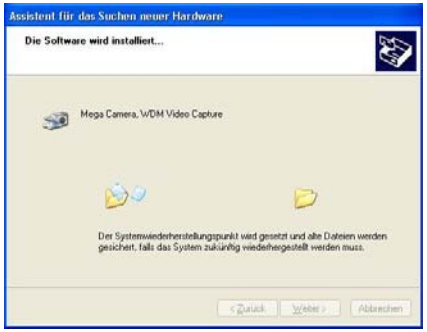
Connect the smaller end of the USB -Cable to the USB-connection port of the camera. Connect the larger end of the USB-Cable to a free USB-Port located on the back of the computer




Windows XP will automatically recognize newly attached hardware and the Hardware-Assistant will appear.




Choose the option “Install the software automatically” and click on “next”.




The Hardware-Assistant will automatically search for the driver components and integrate them into the system.

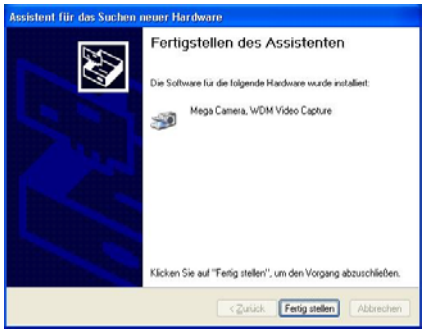
Follow the direction on the screen.



- The Driver consists of three components which windows will install one after the other:

| | |
|---|---|
| Capturing devices: | Mega Camera, WDM Image Capture |
| USB-Controller: | Mega Camera, WDM DSC I/O Driver |
| | USB-Device *or* MegaCamera USB Camera |

When the message “did not pass the Windows Logo Test” appears, click on “continue anyway” to continue with the installation.



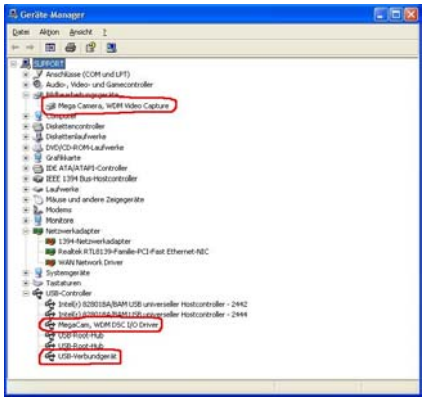

To complete the installation, click on “finish”




Once the driver components have been completely installed, the message “New Hardware the newly installed hardware can now be used” will appear.

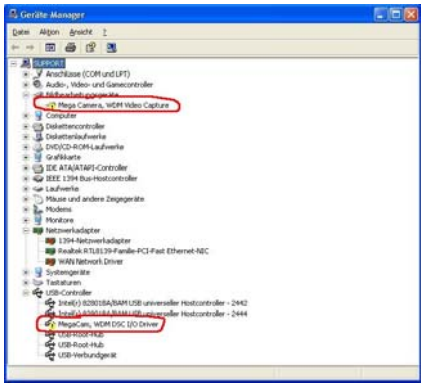
## Additional Installation Information under Windows 2000 / XP

After proper installation of the drivers, the three components can be found in the device manager



**Device Manager:**

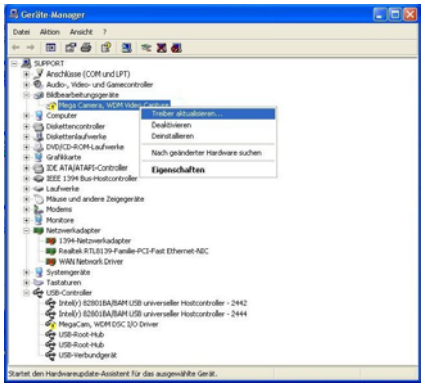
To find the Device Manager click on: Start → Control Panel → System → Hardware → Device Manager



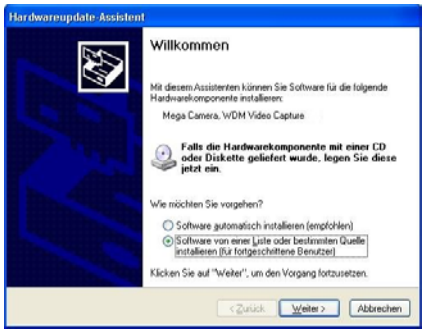
If for some reason the driver installation has failed or windows could not recognize the camera, a yellow circle with an "!" or "?" will appear before the device entry.

In this case the missing components will have to be manually installed.





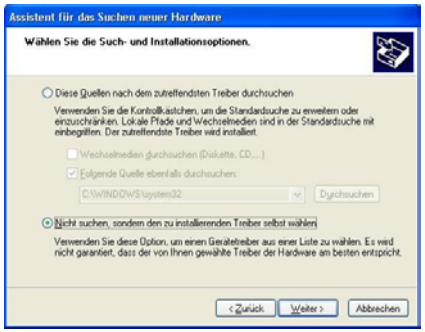
Click on the entry, in which the drivers are to be installed, with the right mouse key and choose "refresh drivers" from the options.



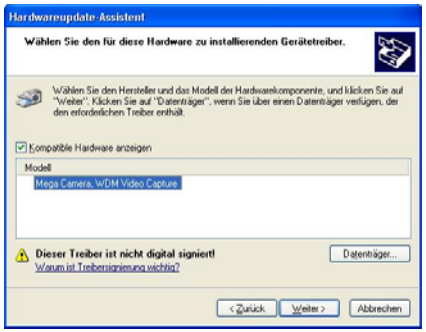

You can install the components either automatically or manually.

To install the component automatically, refer to the steps on page 19.

To install the components manually, choose "Software from a list…" from the options and click on "next".




Choose from the options "do not search…." And click on "next"




Select your component from the list and click on “next”.

The rest of the installation will comply with the steps on page 19.

If other components in the device manager have not been properly installed, follow the above steps to install the drivers.

Once the installation is complete, insure that all entries are present in the device manager.



## Additional Software (Short Description)

The CD with the Title “Mega Camera” includes a variety of software for processing images, archiving and creating panorama pictures, attaching pictures and videos to Emails and using the camera for videoconferences.

Please note the following:

- These programs offer numerous possibilities for the processing of images; a complete step-by-step guide is not possible. Please refer to the programs “Help” to become familiar with the program. Thank you for your understanding.

- Numerous manufacturers have made these programs available to us. Because of this, we cannot offer any technical support. Our customer service will gladly answer general questions and comments concerning these programs. For major problems, please contact the manufacturer directly. Refer to page 49 for contact addresses.

Place the CD, labeled “Mega Camera” into your CD-ROM drive, the CD should start automatically. If the setup window does not automatically appear, click on START / RUN and enter “D:\setup.exe in the space provided. Exchange the “D” to correspond with your CDROM–Drive letter. Press RETURN.

Select the program you wish to install, and then press the symbol corresponding with the program to start the installation.

Follow the directions shown on the screen.

Within the package contents you will find a second CD labeled **“Video Studio”.**

## Ulead Photo Express 4.0 SE

**Photo Express** offers many possibilities to professionally process images.

Included are numerous filters, with which you can use to enhance the quality of your pictures. Effects to change the appearance of your pictures are also available. Printing your pictures is no problem with this program.

Furthermore, Photo Express offers the ability to download pictures from the camera using the TWAIN-interface.

## Ulead Photo Explorer 6.0

**Photo Explorer** is a handy tool used to view pictures and graphics.

Its appearance is similar to the Windows-Explorer in which you can quickly find pictures and graphics saved on your system. These will be shown as thumbnails. A complete series of pictures can be viewed as a slide show and single pictures can be opened, deleted, moved or copied.

## Ulead Cool 360

**Cool 360** is a program in which you can use to create 360° panorama pictures.

With this easy to use program, picture sequences can be downloaded directly from the camera and automatically created using the panorama feature. Turning, swinging and other effects can be easily obtained.

- NOTE: Cool 360 is only available in English.



## VideoLive Mail 4.0

**Video Live Mail** offers a variety of possibilities to attach pictures and videos to Emails.

Short films, with or without tone (an external microphone is necessary) can be created direct from this program.

- To register Video Live Mail, a serial number (**VL4444378H611384**) is required. This number can be found on the outer portion of the CD.

- In order to operate this program properly, you must be able to access the Internet through a Network, modem, ISDN or DSL. Furthermore, an Email account using POP3 and SMTP standards is also required.

## Windows NetMeeting 3.01

**NetMeeting** gives you have to possibility to send and receive audio/video data through the Internet or local network.

It is a great way to hold audio/video conferences.

- The installation under Windows XP is not possible, as a version of Net meeting is automatically installed by the initial installation of Windows XP. You can find Net meeting under **C:\Program Files\Netmeeting**.




**Video Studio** is a professional program used to create and edit videos. It offers a variety of options and settings to copy, paste, cut and edit video sequences.

To install the Video Studio, place the CD “Ulead Video Studio” into your CD-ROM. Click on START / RUN and enter “D:\setup.exe” in the space provided. Exchange ”D“ to correspond with your CD-ROM drive.

Follow the instruction shown during the installation.

# Operating the Camera Manager

## Starting the Mega Cam Manager

The Mega Camera Manager offers you the opportunity to transfer pictures and videos to your PC. With this program you can also use the camera as a PC-Cam and take pictures or videos while in the live – mode.

Start the Mega Camera Manager as follows:




Double-click on the Icon “Mega Camera Manager” found on your desktop.

*Or*



Click on:
Start → all programs → Mega Camera Manager → Mega Camera Manager.exe

## Closing or minimizing the program



Click on the left symbol (-) to minimize the program.
Click on the right symbol (X) to close the program.

## Information



Click on this symbol to see information (version number) regarding the Mega Camera Manager.

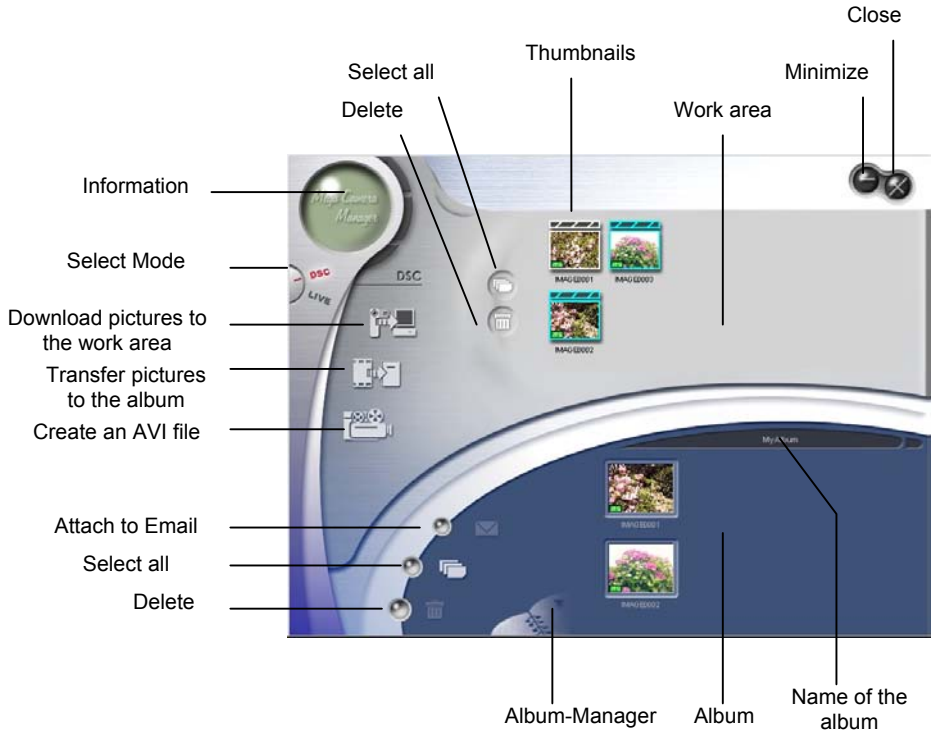


## DSC-Mode

While in the DSC-Mode ("**D**igital **S**till **C**amera") pictures and videos can be transferred from the camera to the pc.
Pictures that have been saved to the work area can be compiled into a video sequence.
Pictures and Videos that have been stored to “my album” can automatically be attached to outgoing emails.




Click on this symbol to enter the DSC mode.
When the Mega Camera Manager is started, it will automatically enter the DSC mode.



## Work area



Downloaded pictures and videos will be save in the work area and will be shown as thumbnails.

For a larger view of your pictures, double-click one of them. A window will appear and allow you to view all pictures stored in the work area as a slide show.

See page 37 for a complete description of the slide show.

To view a video, double-click the thumbnail, the windows media player will appear and play back the video.



Click on this symbol to select all pictures.

Click on a picture once to select it.

To select more than one picture at a time, press the CTLR key while clicking on the desired pictures.



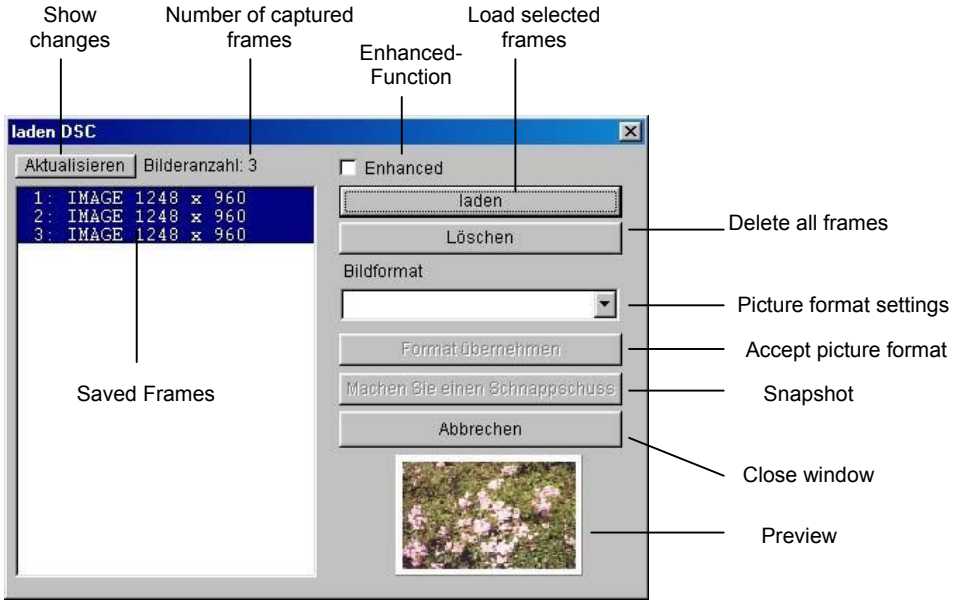
Click this symbol to delete selected pictures from work area.



Click on this symbol to start downloading pictures and videos from the camera.

**! Never disconnect the camera from the PC while downloading pictures and videos. This could cause major damage to your camera. !**









All of the pictures and videos stored in the camera will automatically appear in the list.



A preview of each picture can be seen.




Select this option to activate the enhanced interpolation. Pictures using the SXGA format will be enhanced to 2.1 Mega Pixels through interpolation. Sharpness and contrast will not be affected.

➢ This option does not apply to videos.




Click on this button to download the selected pictures to your PC.

- All pictures are automatically selected when the download dialog is started.

To select only one frame, click on the desired frame. To select more than one frame press the CTRL key while clicking on desired frames.



You can choose between two different video formats when downloading videos from the camera.

If you choose the space saving Proprietary-Format, you must also install the AVI-Decoder. See page 15 for information on how to install the AVI-Decoder.




Click on this button to erase all pictures in the camera.




Click on the arrow to choose which format you wish to use when taking snapshots.

You can choose between two formats: SXGA, 1248x960 Pixel
VGA, 640x480 Pixel




Click on this button to accept the chosen format.




Click on this button or the capture button to make an exposure.




Click on this button to refresh the download list.




Click on this button to close the download dialog.



Album



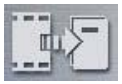
Pictures and videos will be saved to the album.

**HINWEIS:** Once the selected pictures and videos have been saved to the album, they will be permanently saved to the hard drive.

To view an enlarged picture, double click on the picture. A new window will appear and all pictures that have been saved to the album can be viewed.

See page 37 for information concerning the preview and slide show.

To view a saved video, double click the video. Your standard video program will open and start the playback.



Click on this symbol to transfer all data in the work area to the album.



Click on this symbol to select all data in the album.
.
To select one item, click on the desired item.

To select more than one item, press the CTRL key while clicking on the desired items.



Click on this symbol to erase selected items.



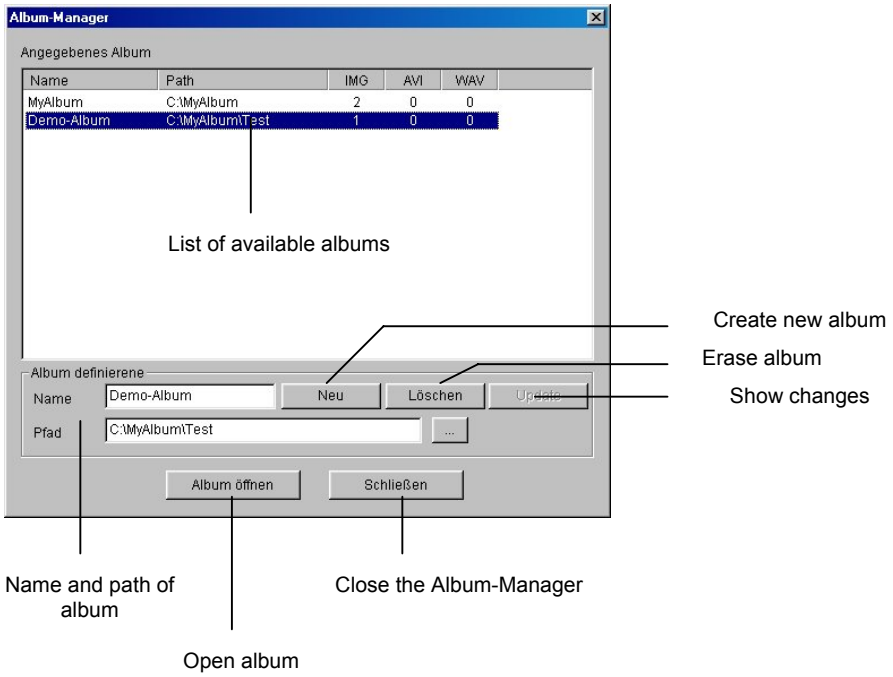
Click on this symbol to attach selected item to an Email.

## Album-Manager

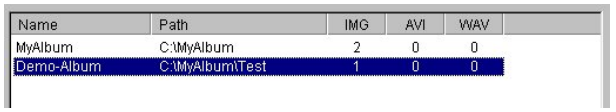
By using the Album-Manager, you can manage saved pictures and videos. You can create new albums or erase the current album.



Click on this symbol to open the Album-Manager.






All available albums will be listed with file name and path.
IMG = File Format (Only JPEG-Format)
AVI = Video file
WAV = Audio file




Click on the button “new” to create a new album.

Name the new album and select a path to where you want to save your album-

**Note:** There can only be one album present in a folder.

Update — Click on this button add the new album to the list.

Löschen — Click on this button to erase selected album.

- If the selected album appears in the camera manager it cannot be erased.
- If there is only one album present in the list it cannot be erased.

Album öffnen — Click on this button to open a selected album in the camera manager.

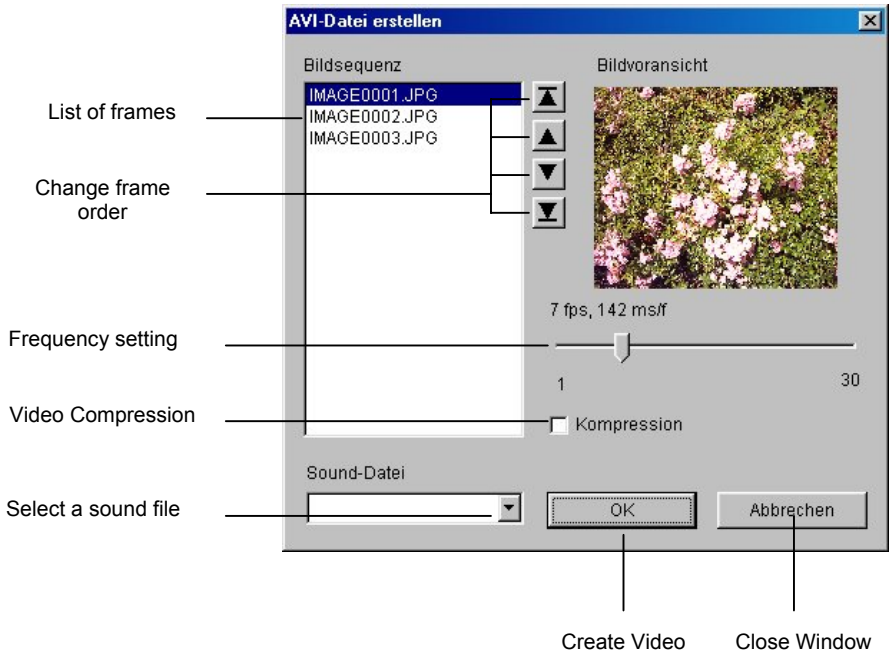
Schließen — Click on this button to close the Album-Manager

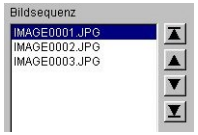
## Creating an AVI-File



Click on this symbol to create a video from selected frames in the work area.

- If other videos have also been selected, they will not be affected.




The selected frames from the work area and the order in which the frames will be shown are listed here.

Use the arrows to change the order of the frame sequence.




By moving the bar you can adjust the frame sequence of your video. 7 frames per second is the default setting.



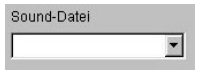

Activate this box if you choose to compress the video data. Compressed video data will use less memory space.




Click on this button to cancel.




Click on this button to start creating your video.




**Adding audio files is not possible with this camera model.**

## Preview and Slide-Show

All pictures in the work area can be enlarged and viewed using the preview. You can also use the Slide-Show function to view the pictures automatically.





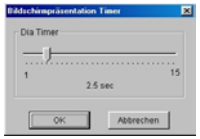

By clicking on the arrows you can view the next picture or return to the previous one.



Click on this symbol to close the preview.



Click on this symbol to stat the slide show.




By moving his bar you can adjust the interval in which the pictures will be shown.



Click on this symbol to close the slide show and return to the preview window.

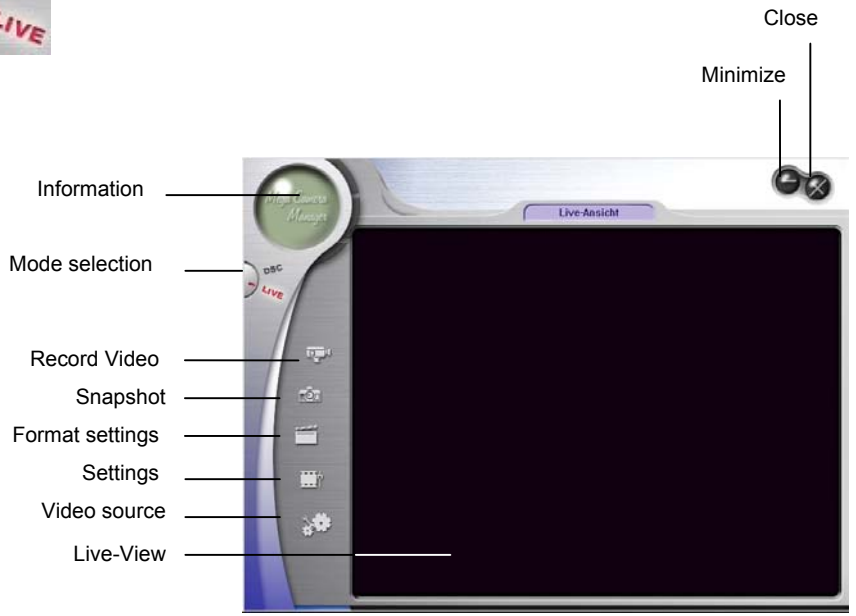


## PC-Camera-Mode

While in the PC-Camera-Mode you can use the camera for live viewing, creating video sequences and taking snapshots.




Click on this symbol to switch to the PC-Camera-Mode

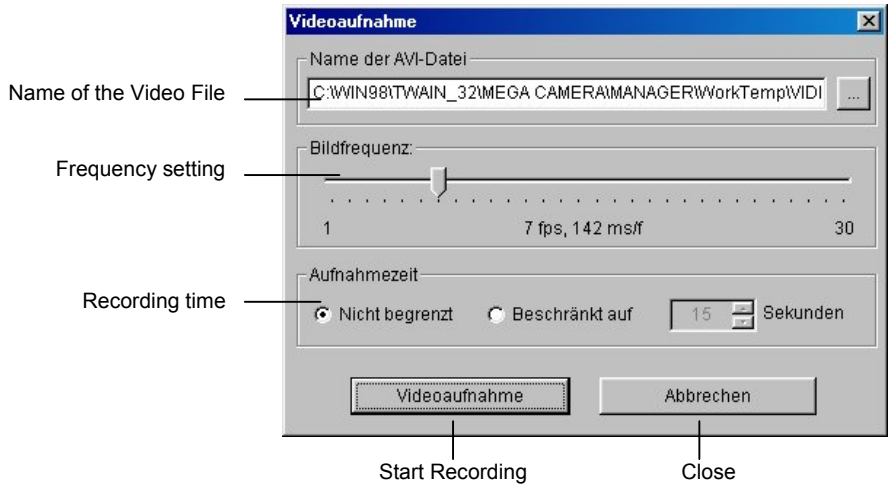



**! Never disconnect the camera from the PC while downloading pictures and videos. This could cause major damage to your camera. !**

## Recording Videos



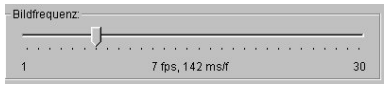
Click on this symbol to start recording a video.







Enter the name and path to where the video is to be saved.




By moving the bar you can adjust the frame sequence of your video. 7 frames per second is the default setting




Activate this option if no recording time is to be set.




Activate this option to set the recording time.




Click on this button to close the window without creating a video.




Click on this button to start recording.



Click on this symbol to stop recording.



## Taking Snapshots



Click on this symbol to take a snapshot. The picture will automatically be saved to the work area.

- A snapshot is only possible when the compression rate is set to “1420”. Otherwise this symbol will be deactivated.

## Format settings



Click on this symbol to set the frame size and compression rate.

There are three frame sizes available:
640x480 Pixel
320x240 Pixel
320x240 Pixel (default)

There are two compression rate settings available:
I420 (High compression)
RGB 24 (low compression)

## Settings



Click on this symbol to change the default settings.

- You should only change the default settings when absolutely necessary.

## Video Source



Click on this symbol to change the video source.

## Operating the Twain-Manager

With help of the Twain-Manager, pictures and videos can be downloaded using other image processing programs.

- The Twain-Manager will automatically be installed when the Camera Manager is installed.

You can use any Twain compatible software to start the Twain-Manager. Imaging is the Twain software offered by Windows. To start Imaging, click on START / ALL PROGRAMS / ACCESSORIES / IMAGING.

First of all you must choose the MegaCam as data source. Click on “FILE / CHOOSE SCANNER…” and choose from the list “Mega Cam Data Source” and confirm.

To start the Twain-Manager, click on “FILE / NEW SCAN”



Click on this symbol to switch between the DSC and PC mode.



Click on this symbol to load selected frames to the imaging work area.



Click on this symbol to load all frames to the imaging work area.



Click on this symbol to compress selected frames to a video sequence.

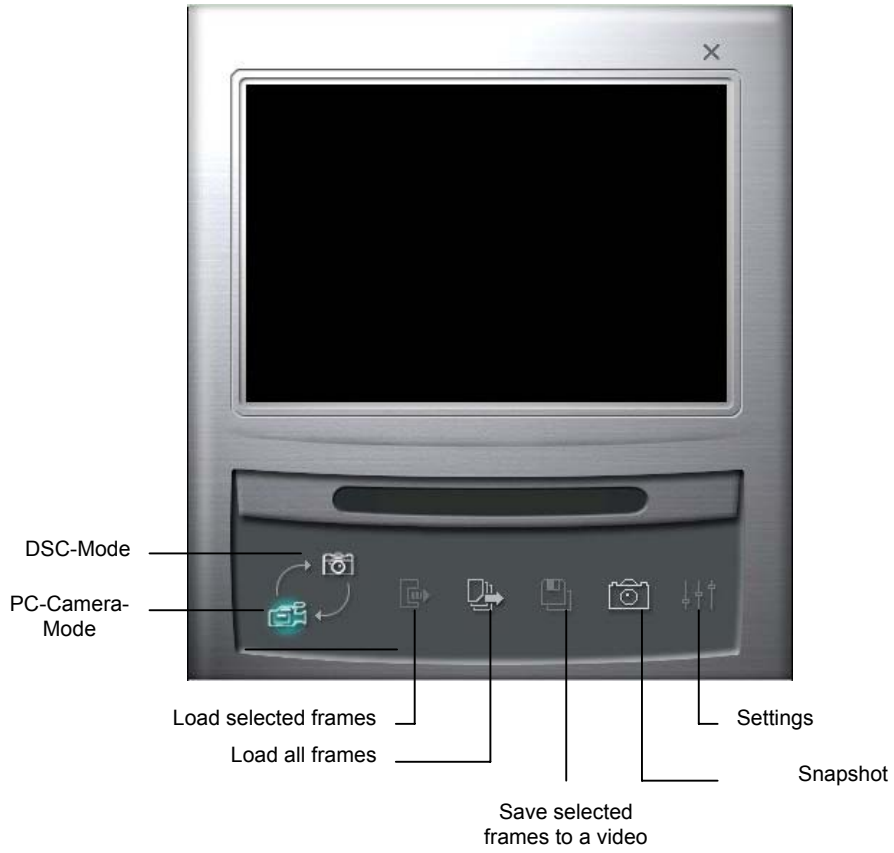




Click on this symbol to take a snapshot and to load it to the imaging work area.



Click on this symbol to change the picture settings.



# Troubleshooting

## General Questions and Answers

- **Where can I obtain a new version of the Camera Manager?**
  The newest version of the Camera Manager can be downloaded from the following Internet link:

  http://www.aiptek.de/downloads/treiber.html

- **Will the pictures and videos be saved while changing the batteries?**
  Pictures will be saved when changing the batteries but videos won't. Therefore it is suggested to transfer all videos to the PC before removing the batteries. You can also connect the camera to the USB cable and then remove the batteries without losing any data.

- **Which type of batteries should be used in the camera?**
  It is recommended that you only use ALCALINE batteries.

- **How long will sets of batteries last?**
  A set of batteries should last for approx. 160 pictures or 10 days while in the standby mode.

- **Can the camera be operated with rechargeable batteries?**
  It is possible to use rechargeable batteries. Do to the low voltage processed by rechargeable batteries; using them could cause the normal operating time to be reduced. It is therefore recommended to test the life of your rechargeable batteries under normal operating conditions. It is also recommended that you use Nickel Cadmium batteries.

- **What is the purpose of the enhanced function?**

With this feature you can enhance your pictures to 2.1 Mega Pixels through interpolation. Please note that the sharpness and contrast of your pictures will not be affected.



- **What is the meaning of interpolation?**
  When enlarging the resolution, additional horizontal and vertical pixels must be added to the picture. To insure that the sharpness and contrast are not affected, the color of every additional pixel must be integrated into the picture. The system uses different mathematical algorithms. This process is called Interpolation.

## Problems with the Mega Camera Manager

- **During the installation, I receive the message "did not pass the Windows Logo test…"**

  When installing the Mega Cam Manager and drivers under Windows XP, you will probably receive a message that this Software did not pass the Windows Logo Test. This message can be ignored and you may continue with the installation by pressing "Continue Anyway".

  This message appears due to the fact that the software has not been digitally singed or registered by Microsoft.

- **Downloading pictures and videos function properly but using the camera in the Live Mode is not possible.**

  There could be more than one reason for this problem:

  If the camera is being operated parallel to another Video Capture Device, it may have trouble loading the proper drivers automatically. In this case, activate the Live Mode and press the "Video Source". Choose your camera from the list provided.

  This problem could occur if the drivers were not properly installed. The driver includes three components that windows will automatically install and integrate into your system one after another. If one or more components were improperly installed, some features may not available or operate correctly.

**Note:** You can find and download the complete Installation guide at our web site www.aiptek.de under "Technische Hilfe / Anleitungen"

**Win98-Users**: Please be sure that your operating system is Windows 98 SE (second edition). The camera will not function properly using the Windows 98 (first edition) operating system

- **The Live Mode functions properly but downloading pictures and videos in not possible.**

  This problem could occur if the drivers were not properly installed. The drivers include three components that windows will automatically install and integrate into your system one after another. If one or more components were improperly installed, some features may not available or operate correctly

  **Note:** You can find and download the complete Installation guide at our web site www.aiptek.de under "Technische Hilfe / Anleitungen"

- **When I open the Mega Cam Manager I receive the message "Camera can not be connected" or "Camera busy".**

  If you receive this message, there could be a number of reasons for this problem. Please refer to the following possibilities:

  When you connect the camera to the USB – Port, the camera should automatically turn on (check the display on the reverse side of the camera). Remove the batteries from the camera and connect – disconnect – connect the camera from the USB Cable. You should hear a short beep and the camera should turn on automatically.

  If the camera remains off, then the camera is most likely defect or the USB Port is not supplying enough power to the camera. Try installing the camera to a different computer if possible. If the camera installs properly then the problem is due to a faulty operating system.

  Ensure that the camera has been correctly recognised by your operating system. Go to the Device Manager and connect the camera to the USB Cable. Three new components should appear, one under Cameras and Scanners and two under Universal Serial Bus Controller. If not then the camera has not been properly recognised.

  **Note:** You can find and download the complete Installation guide at our web site www.aiptek.de under "Technische Hilfe / Anleitungen"

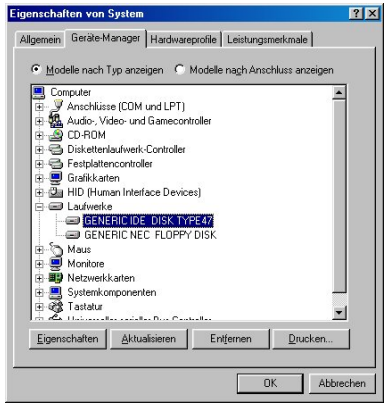


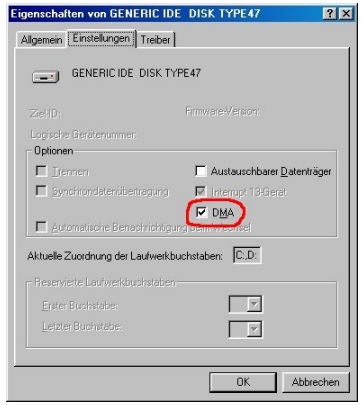
- **The PC crashed when making videos from the PC-Mode using Windows 98SE**

  This problem can occur when the DMA of the hard drive controller is not activated (Windows 98SE default setting).

  Do the following to check the DMA-mode setting:

  Open the device manager and click on the "+" next to the entry "drives". Double click on "GENERIC DISK TYPE" then click on "Settings".




  Under "Options" you will see a box next to DMA. Click on this box to activate the DMA-mode. You must reboot the computer in order for the changes to take effect.

  **Attention:** Not all hard drives support the DMA-mode. Refer to your manual or contact the manufacture to see if your hard drive is supported.

## Problems with the camera

- **The camera becomes very warm after installing new batteries.**
  You are probably using regular zinc-carbon batteries and not alcaline. Zinc-carbon batteries are not recommended for devices, which require a large amount of energy and tend to overheat.

- **“Ero” blinks in the display.**
  The internal Flash Memory is defect and must be replaced. Please contact your dealer or send the camera directly to us (Only for customers living in Germany).

- **After taking a picture the display blinks but no picture is present.**
  The internal Flash-Memory cannot be written and needs to be resetted.

  Press the mode button until “888” appears in the display.
  Press the capture button until “0” reappears in the display.

  You can now take new pictures.

- **The pictures taken indoors are very dark.**
  CMOS sensors require a large amount of light in order to produce good pictures. Please insure that sufficient light is present when taking pictures.

- **The borders and corners of the pictures are blurry.**
  In some cases, the corners or borders of the picture may be slightly blurred or stretched. This is due to the strong contour of the lens and the small size of the aperture. Problems may occur when taking pictures of objects at a further distance, which can influence the sharpness. Unfortunately there are no settings available in which you can alter the sensors or the optic.



- **The picture does not match that what I see through the lens.**

Unfortunately the camera offers no automatic adjustment of the objective. Therefore, it is not uncommon to have a slight offset between the object and final picture. This phenomenon can vary depending on the distance of the object. Unfortunately this problem is a manufacture default and cannot be corrected.

# Attachments

## Software Manufacture Contact Addresses

**Ulead**

Internet: www.ulead.de
EMail: info@ulead.de
Tel.: 0180 / 5085323

**Cyberlink**

Internet: www.gocyberlink.de
EMail: goCyberlink@aixtema.de
Tel.: 700-462 / 92375

**Microsoft**

Internet: www.microsoft.de
EMail: microsoft@service.microsoft.de
Tel.: 089 / 31760



## Warranty Terms and Conditions

The following terms and conditions comprising the prerequisites and scope of our warranties leave our statutory and contractual warranties unaffected.

We furnish guaranty for the appliances in accordance with the following terms and conditions:

1. As provided in the following terms and conditions (figures 2. to 5.) we remove free of change faults or defects at the appliance that demonstrably are caused by faulty craftsmanship, if they are reported immediately after their detection and within 24 months after delivery to the end user.

The guaranty does not cover any batteries and other parts belonging to consumables, easily breakable parts such as glass or plastic, as well as defects occurring because of normal usage. An obligation under guaranty shall not be triggered my minor tolerance from the nominal condition that are irrelevant to the value and the performance capability of the device, by defects caused by chemical and electrochemical influence, by water as well as generally abnormal conditions.

2. The guaranty obligation is fulfilled such that defective parts – at our option – will be repaired free of charge or will be replaced by perfect parts. Repair work at the place of installation cannot be demanded. Appliances which a guaranty obligation is requested for under reference to this warranty are to be sent delivered free of charge o M/s. Aiptek International GmbH, Halskestrasse 6, 47877 Willich, Germany, packed in a damage-proof manner. To be attached is the purchase receipt indicating the purchase and/or delivery date as well as a detailed description of the problem. The ownership of replaced and/or exchanged parts passes to our company. The repaired product will be returned delivered free.

3. The warranty claim shall expire, if persons not being authorized by us have carried out repair work or operations, or if our appliances have been equipped with supplementary or accessory parts that are not matched for our appliances.

4. Warranties neither cause an extension of the guaranty period nor do they initiate any new guaranty period. The period of warranty for incorporated spare parts will end with the period of warranty for the complete appliance.

5. Further reaching and other claims, particularly such claims for compensation of damage caused outside the appliance, are excluded, unless a liability has been obligatory set forth by legislation. This means that we are not liable for incidental, indirect or other consequential damage of any kind that lead to a limitation of utilization, loss of data, lost profits or interruption of operations.

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