

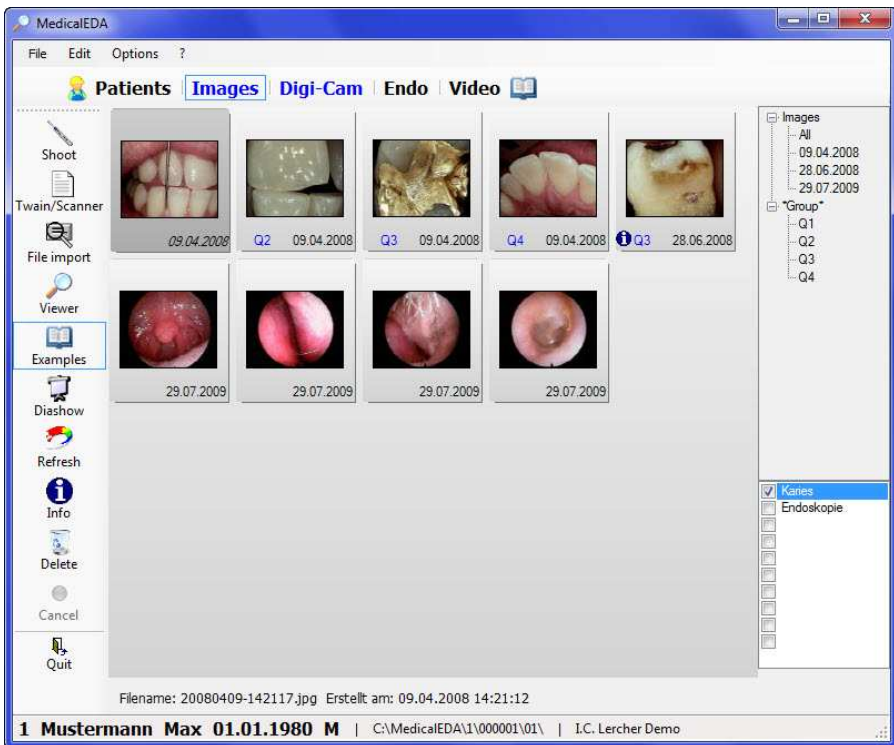
# Instruction manual

## MedicalEDA

### Image and video processing software

#### For L-Cam USB

#### For Microsoft Windows XP / Vista / Windows7



**Software version 1.4**

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## 1. Hints

### 1.1 General hints

- Please read the instruction manual carefully before using the software. It is a component part of the software and has to be supplied to every user. For damages due to disregard of the manual I.C.LERCHER will not take any responsibility.
- The flawless use of this software is only guaranteed with the recommended hardware.
- Reprinting the manual is only allowed, written admitted from I.C.LERCHER.

### 1.2 Installation manual for Windows XP / Vista / Windows7

Additional to your installation handout you can read the instructions manual for the installation under Windows XP and Windows Vista. These instruction manuals are in PDF-format on your Driver-CD. You need a PDF-reader (e.g.: Acrobat Reader). If you need further manuals, please contact our service hotline.

## I. Installation and configuration

### 2. Installation under Windows XP / Vista / Windows7

#### 2.1 Requirements for installation

The computer or laptop you want to use the software with has to meet special requirements regarding hardware and software. Before software installation, it is necessary to check the following points to ensure a faultless illustration of the MedicalEDA software.

#### Minimum requirements hardware:

PC / Workstation	Laptop
Pentium 4 (2 GHz)	Pentium M (1,7 GHz)
512 MB RAM	1 GB RAM
USB 2.0 Port	USB 2.0 Port

#### Requirements Software:

- Software (32-Bit / 64 Bit)
- Windows XP (SP3) / Vista / Windows7
- Microsoft DirectX 9.0c or higher

To ensure that your computer is up to date we recommend the update check of Microsoft.

**Please install and run the software using the administrator user account!**

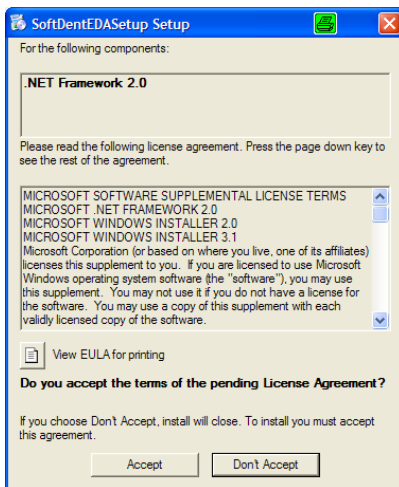
## Attention !!!

**Before install the MedicalEDA software the camera driver have to been installed. Please read the instruction manual of your L-Cam USB how to install before you continue here!**

*Insert the install CD into your CD-Drive.*

If the auto run function is deactivated please start „CD\_Start.exe“, found on the CD.

## 2.2 System requirements check



First setup step is to check, if Microsoft Frameworks 2.0 is installed. If not, the components will be installed.

Continue with **"Accept"**.

The installation of the Microsoft Frameworks components could take a few minutes.

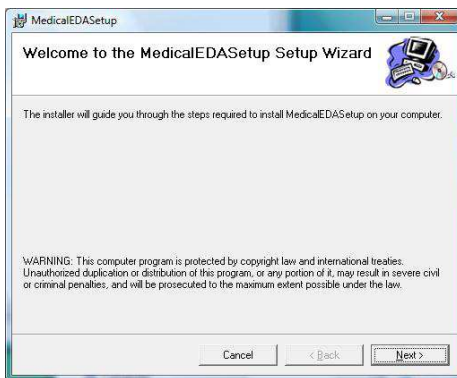
**ATTENTION:** If the Microsoft Frameworks components are already located on your computer, this installation will be skipped.

## 2.3 MedicalEDA setup Windows XP / Vista / Windows7

Please follow the instructions.



Choose **"Run"**, as soon as the Windows warning message appears.



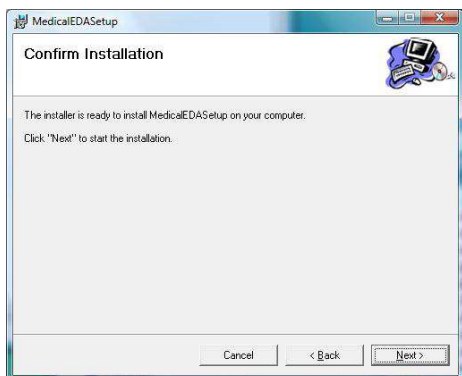
Continue with **"Next"**.



Select the destination folder.

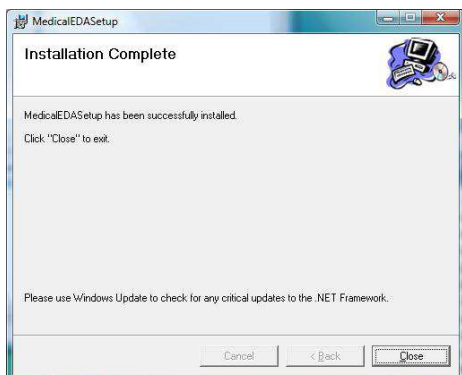
The shown installation path is the default path.

Continue with **"Next"**.



Execute installation

Continue with **"Next"**.



Finish installation

Finish with **"Close"**.

The software is now completely installed on your computer.

### 3. First start of MedicalEDA

**Hint:** At the first start there is no valid licence entered. That means that the application is running as a **30-day-DEMO-Version**. Please read chapter 10 of this manual, to find out how to enter a valid licence.

#### 3.1 Basic settings

All functions are similar at the demo version and the full version.

Start MedicalEDA at:

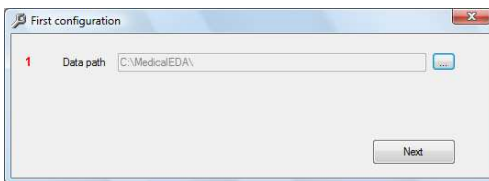
START → All programs → MedicalEDA

or run it with Icon  from the desktop.

Right after starting MedicalEDA you can choose your language.



In the following, one-time configuration you will be prompted to set up the data path.

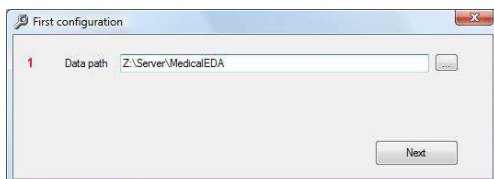


1. Data path

The default data path is "C:\MedicalEDA". In this directory the subdirectories for the storage area of data, images, videos and the necessary MedicalEDA data-base (daten.mdb) will be created.



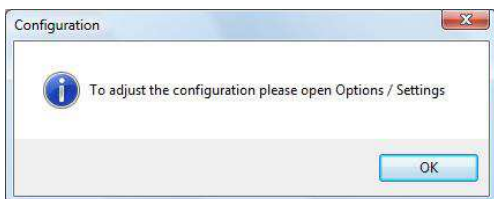
If you want to use MedicalEDA in a network, you have to select the data path to your network directory.



Enter the chosen data path to your network directory  
e.g.: Z:\Server\MedicalEDA\

(If "Z:\\" is your network directory)

**ATTENTION:** The MedicalEDA program has to be installed local at each computer. Only the data path can be created on a network directory.



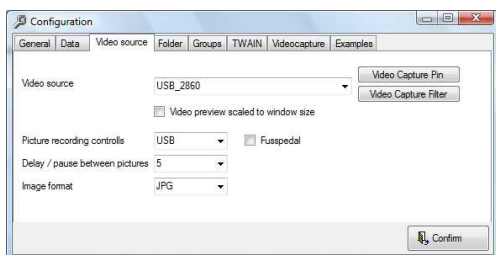
After first configuration is completed, you can open the configuration to adjust the configuration of the MedicalEDA system.

## 4. L-Cam USB configuration

### 4.1 Configuration under Windows XP / Vista / Windows7

Start the configuration of MedicalEDA at:  
Options → Settings

Open the tab "Video source", and the window displayed below will appear.



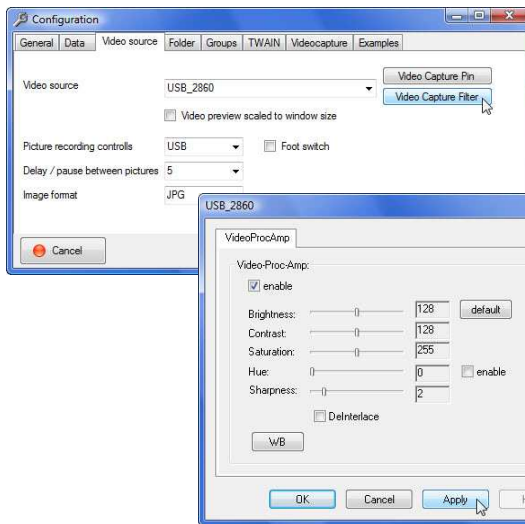
In this window following settings have to be checked and if necessary be made.

1. Video source
2. Picture recording controls
3. Delay / pause between pictures
4. Image format

#### See 1. Video source

The entry in this window has to be set to "USB\_2860" when the camera is plugged.

To change the image presentation (e.g. brightness), please use the settings menu at "Video Capture Filter".



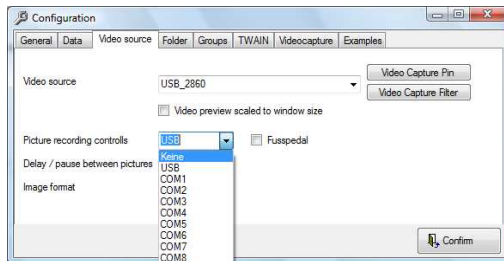
When you open the "Video Capture Filter" the property window of the L-Cam USB will appear.

Here you can change following settings:

Brightness  
Contrast  
Saturation  
Hue

A little preview window will open, that helps you control the settings.

## See 2. Picture recording control



In case of different camera usage with foot switch, virtual COM-port and so on, the COM-connection must be set here.

In case of using the L-Cam USB please select USB-connection.

## See 3. Delay / pause between pictures

The delay time set here is responsible for the decision time period after using the black button. Push once more, frozen image will be stored. Do nothing, and you will get back to the live stream after this time period.

## See 4. Image format

The image format is critical for the quality of the image and file size of the taken image.

JPG / medium quality / file size approx. 40kB  
TIFF / high quality / file size approx. 1MB

## II. Use MedicalEDA as demo / full version

### 5. Patient interface description

The screenshot shows the MedicalEDA application window. The interface includes a menu bar (1) with 'File', 'Edit', and 'Options'. A navigation bar (2) at the top has tabs for 'Patients' (selected), 'Images', and 'Video'. A function bar (3) on the left contains icons for 'Search', 'New patient', 'Edit', 'Save', 'Cancel', and 'Quit'. The main area (4) contains a form for patient data: 'Pat.number' (1), 'Sex' (radio buttons for male and female), 'Last name' (Mustermann), 'Title' (empty), 'First name' (Max), 'Birthday' (01.01.1980), 'Ins.number' (123456789), 'Street' (Mustergasse 11), 'Zip Code' (12345), 'City' (Beispielhausen), 'Phone', 'Phone2', 'Fax', 'Mobile', and 'E-Mail' (Max@Mustermann.com). A status bar (5) at the bottom displays '1 Mustermann Max 01.01.1980 M | C:\MedicalEDA\1\000001\01\ | I.C. Lercher Demo'.

The user interface:

- ❶ Menu bar with the menu items "File", "Edit", "Options".
- ❷ Navigation bar. Choice between patient page and the appending image page.
- ❸ Function bar offering the options to create a new patient, to search for a patient, to save a patient and to edit a patient.
- ❹ Entered patient information.
- ❺ Status bar with information about the patient, directory and licence.



Create a new patient. (A necessary tool if no patient interface is being used.)

Use a valid patient no.

Pat.number



Use the option "Pat.number" the next valid patient no. can be found automatically in the system.



Search function for existing patients inside the data base.



Edit to change information of an existing patient. Basically all changes are made by the patient interface.



Save the changed information to the data base.



Cancel the operation without saving.  
To delete a patient please use the function:  
*"Edit → Delete patient"*.



Close MedicalEDA.

## 6. Patient management

### 6.1 Create a new patient file

EDA Patient management interface showing the 'Patient' tab. The form contains fields for Patient number, Sex, Surname, Title, First name, Birthday, Ins.number, Street, 1st Street, Postcode, City, Phone, Phone2, Fax, Mobile, and E-Mail. The status bar at the bottom shows '1 Fritz Arnold 01.01.1975 M'.

- ① Use the **"Patient"** tab to open the patient interface page.
- ② Use **"New patient"** to create a new patient file.
- ③ Insert all relevant patient information. Take care, to use a valid patient no. (Pat.Number).
- ④ Save the entered data by clicking **"Save"**.

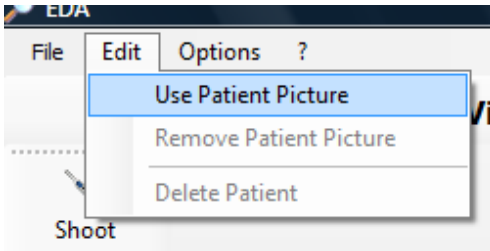
### 6.2 Search an existing patient

EDA Patient management interface showing the 'Search patient' dialog box. The dialog box has a search bar and a table with columns PatNum, Nachname, Vorname, and Geb.Dat. The table contains one entry: 1, Fritz, Arnold, 01.01.1975. The 'Search' button is highlighted.

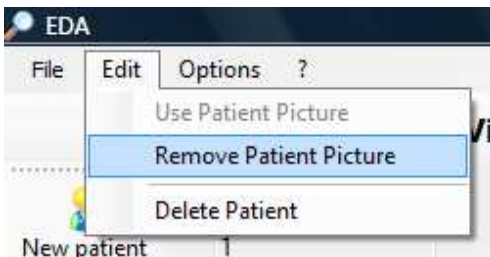
- ① Please choose the patient Interface window.
- ② Run the search function by click at **"Search"**.
- ③ There are several ways to search for patients: patient number, name or birthday.
- ④ Press **"Search"** again to perform the search.
- ⑤ After selecting close the window at **"Apply"**.

### 6.3 Add and remove patient pictures

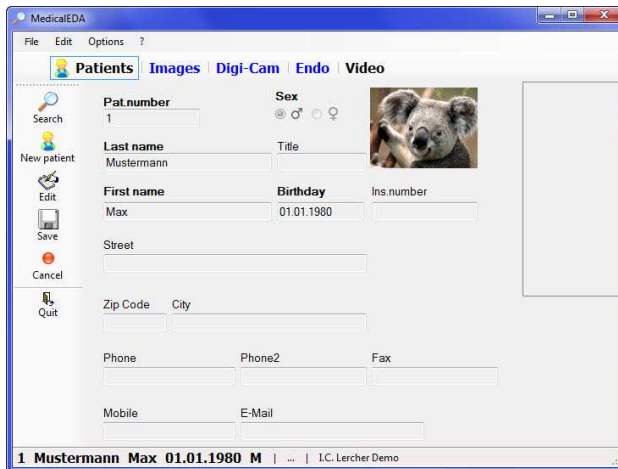
You can add patient pictures to the patient interface page.



To add a patient picture to a patient profile please open the image folder and mark the picture. Select *"Edit→ Use Patient Picture"* and the picture will be added.

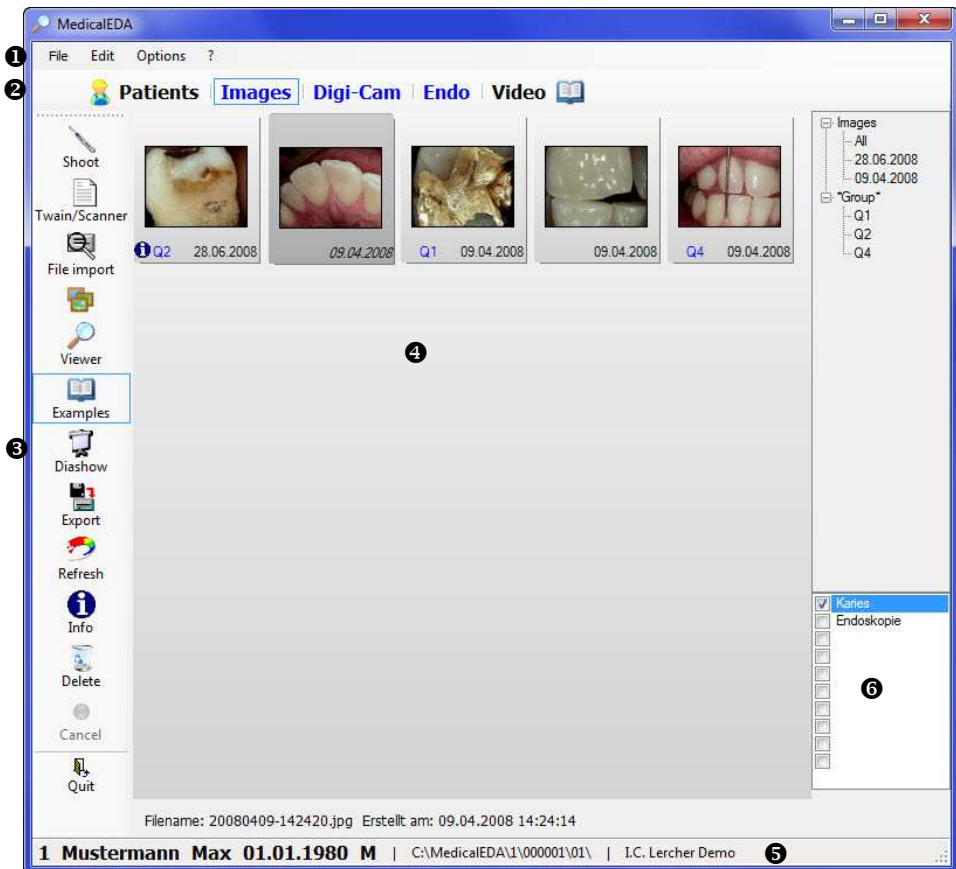


How to remove a patient picture from the patient interface page. Just open the profile of the patient and open the menu: *"Edit→ Remove Patient Picture"*



## 7. The patient image folder – taking new images and videos

### 7.1 The user interface



The user interface:

- ❶ Menu bar with the menu items "File", "Edit", "Options".
- ❷ Navigation bar. Choice between patient page and the appending image page.
- ❸ Function bar, see page 18, 19
- ❹ Workstation with thumbnails.
- ❺ Status bar with information about the patient, directory and licence.
- ❻ Example folders (s. page 26)

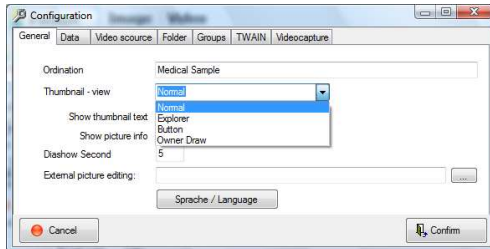
#### ATTENTION:

Configure the camera before use it. Read about how to in chapter 4!

## 7.2 The viewer-settings

There are four different viewer skins available.

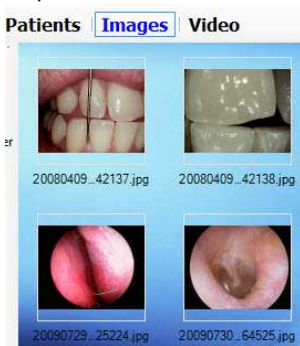
Open the config-menu to set up the skin:  
*"Options → Settings"*



Select your preferred skin at:  
 "Thumbnail – view".

The Normal-skin is just one of the four available skins. These are the three other skin types:

### 1. Explorer-skin:



### 2. Button-skin:



### 3. Owner Draw-skin:

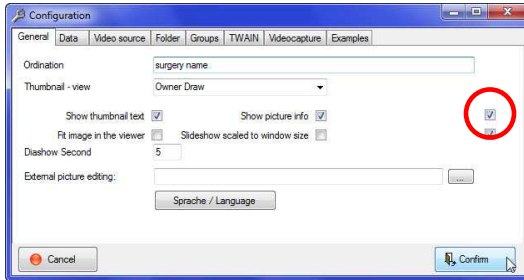




### 7.3 Image disposal

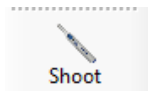
The disposal at the image preview can be controlled afferent or ascending depending on the creating date.

Adjustment of the image disposal at the config-menu:  
*"Options → Settings"*



### 7.4 Trigger frozen images

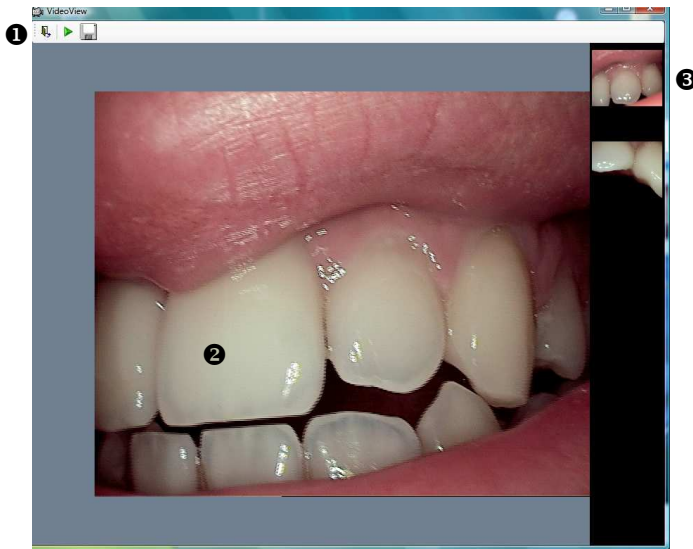
Start the camera at the **TRIGGER** or



using the **SHOOT** button at the function bar.

The video view window will appear.

Press the **trigger** once to freeze an image. To save this image, press the **trigger** again within the delay time (settings, see chapter 4).



The user interface:

- ❶ Function bar: "exit", "pause / start" and "save"
- ❷ Video view window (live stream / image)
- ❸ Saved images, taken in the current session.

**IMPORTANT:** If no live stream is shown, please check the camera configuration.  
(chapter 4)

## 7.5 Creat video sequences



The video view window will appear.

Start / stop recording either with the **VIDEO** button or the **trigger** at the camera.

*Explanation of signs:*



Ready to record.



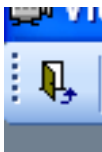
Start the video recording.



Video recording is currently executed.



Stop the video recording.



Click at the exit-button  
and



or at the VideoView window will be closed

the video will be saved.

**ATTENTION:** The video is stored as an AVI file. It needs a big amount of data.

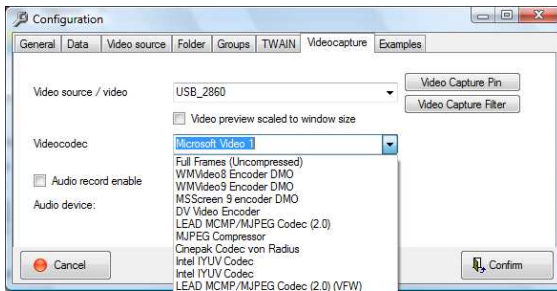
## 7.6 Change the video-CODECS

You can change the video-CODECS in the *configuration*. MedicalEDA delivers a wide variety of video-CODECS.

Additional to these CODECS you will find the *MCMP-LEAD-CODEC* on the Software-CD. This codec improves compression and video-details.

If any other codecs are installed at your computer, MedicalEDA will find and use it.

The Video-CODECS are in charge of the compression of the video. The different codecs vary in the quality. Better quality means you get higher memory requirements.

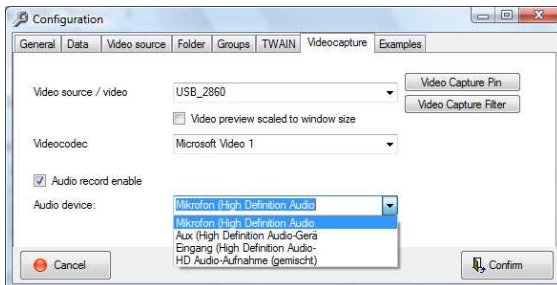


Open at "configuration" the tab "videocapture".

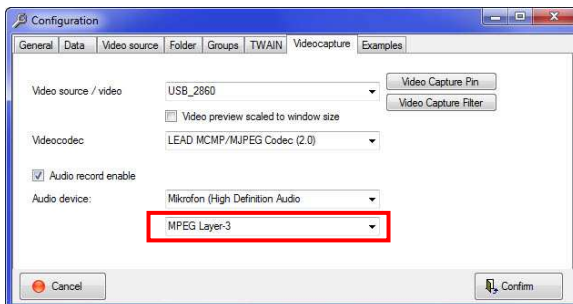
We recommend the average consumer to use the codec: "LEAD MCMP/MJPEG Codec (2.0)"

"Full Frames (Uncompressed)" takes uncompressed video and needs a lot of memory. But it ensures the best quality.

## 7.7 Enable audio recording

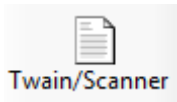


It is possible to record videos including audio signal (e.g. voice). To use this function mark the checkbox: "Audio record enable" and select the audio device.



Use Audiocodec "MPEG Layer-3"

## 7.8 Data import from TWAIN-devices



To import data from a twain device (e.g. scanner / digital camera) use the function „Twain/Scanner“. It opens the external program of the selected devices to add data to MedicalEDA.

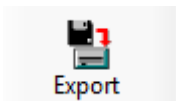
## 7.9 Import data



Clicking on button “File import” and the window “open file” appears. With the import function allows to import a variety of data from any source you like (e.g. from a file server).

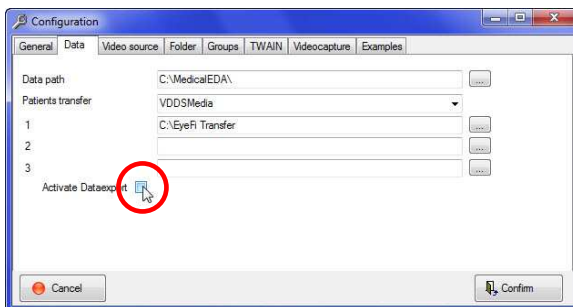
After data import, also the “info window” will pop up to make notes.

## 7.10 Export data



The export function afford to copy or move data (e.g. images and videos), to any destination.

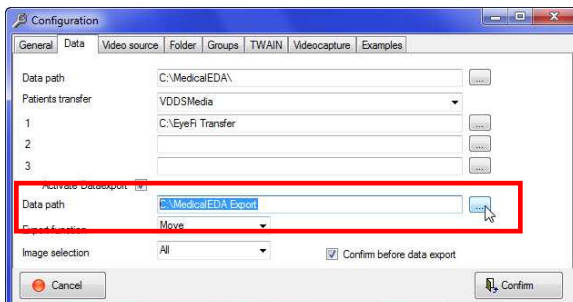
Enable the export function in the “configuration”.



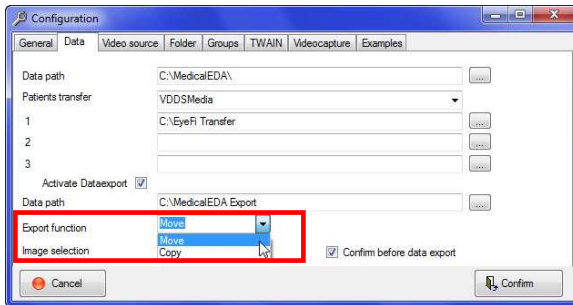
Open the configuration at:  
“Options→ Settings”

Select the checkbox “Activate Dataexport” at tab “Data” to enable the export-function.

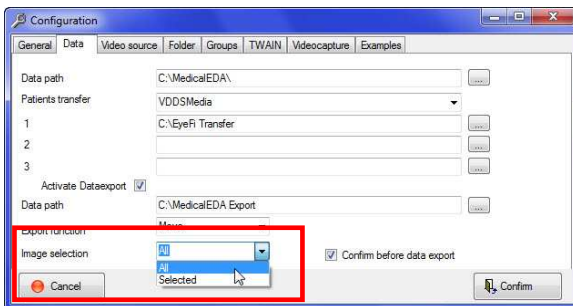
After activating, the window below will be shown.



Select or insert the data path.



Select the export function "move" or "copy"



Choose the image selection "all" or "selected"

Independent to the export settings, the images and videos will be copied / moved to a sub directory. The sub directory is automatically created and named by the patient number. E.g.:

„C:\ chosen data path \ autom. created sub dir. with patient no. \”

if C:\ is your hard disc drive)

### 7.11 Import and export via Drag&Drop

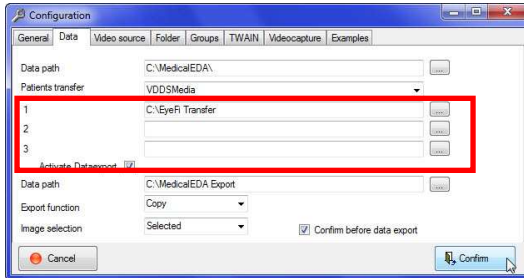
It is also possible to import or export images by using the drag and drop function.

E.g. mark an image and drag it directly to an email.

## 7.12 Automatic import of external images

The "Auto Import" function provides an easy way to import images directly associated to the patient. The imported image will be erased at the source after import to avoid a confusion. Also a circuitous navigation is not necessary

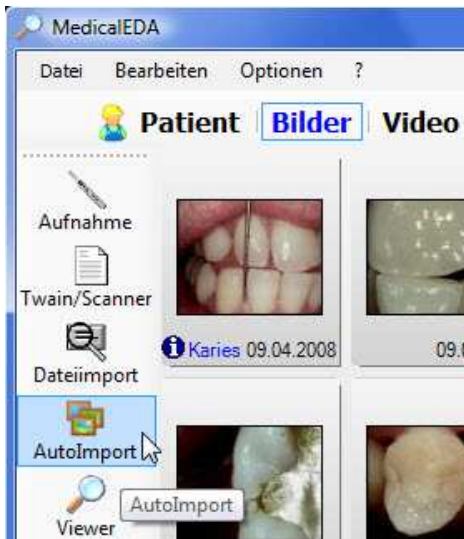
To activate the "Auto Import" function, you have to select the import data path. You can select up to three devices.



- Adjust data path

- Confirm

The user interface is extended with the "Auto Import" function.



- Select a patient
- Open images
- Use the button "AutoImport"

After using the "AutoImport" button, the adjusted data path is scanned for images to import.

If there are images, the amount and a thumbnail is shown in a little window.

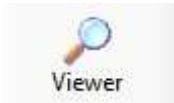


The imported images are available and sorted in the image preview.

The "Auto Import" function requires a additional licence.  
How to insert the licence is shown in chapter 10.

## 8. Examine images and videos

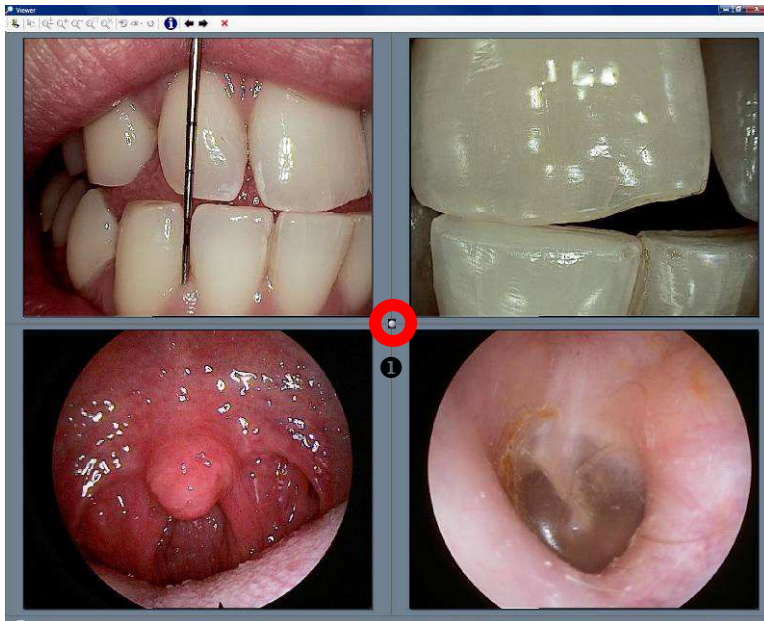
### 8.1 The viewer





Double-click at an image will automatically open the viewer.

To examine more than one image just mark it (max. 4) by holding the left mouse button and click at the viewer button.

Another way to select images is to hold down the "CTRL"-Key of your keyboard and select the desired images with the mouse.



#### Dynamic image size (1):

If more pictures are shown in the viewer, the size of each image can be scaled to the desired size. Just click the  button. It will change into  button. Now you can change the size of the shown images by moving the mouse.



The image sizes will automatically increase or decrease by moving the mouse. Next mouse click stops the dynamic image zoom.



# Explanation of signs:



Moving the mouse over a symbol a tooltip will appear.



Exit / close window



Print the selected image.  
Output to printer



Screen view



Zoom functions



Show image data information



Edit tools for images



Rotate 90°



Cut area



Edit or view image information



Navigate through selected images



Delete selected image



Navigate through multilateral images

### 8.2.1 View images at the iPad



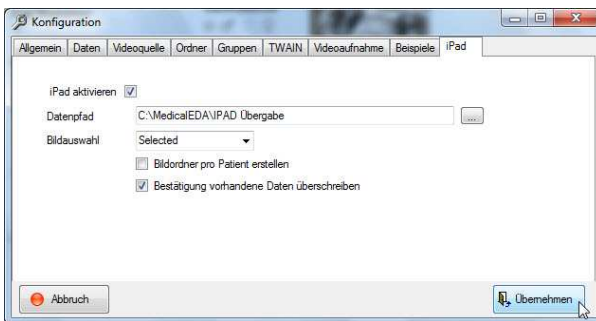
This function offers the opportunity to transfer images from the software MedicalEDA to an iPad.



Erase still existing data at the transmission folder? It could contain images from earlier transmissions.

### 8.2.2 Adjustment at the MedicalEDA for iPad transmission

It is necessary to define a folder with network clearing for the transmission. (e.g. located at the server)



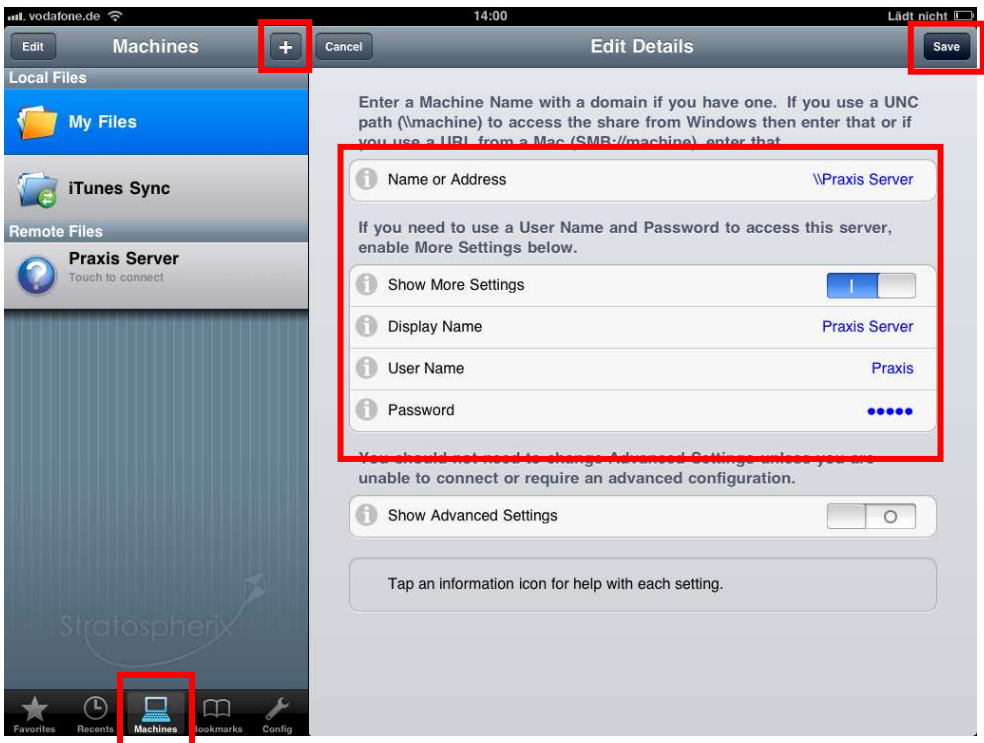
Open MedicalEDA:  
„Options → Settings”  
tab „iPad” and hock checkbox  
„activate iPad”.  
Select at „Datapath” the  
cleared folder for transmission.  
Choose at „Image selction” if  
only the selcted images or all  
images should be transferred.

Confirm adjustments.

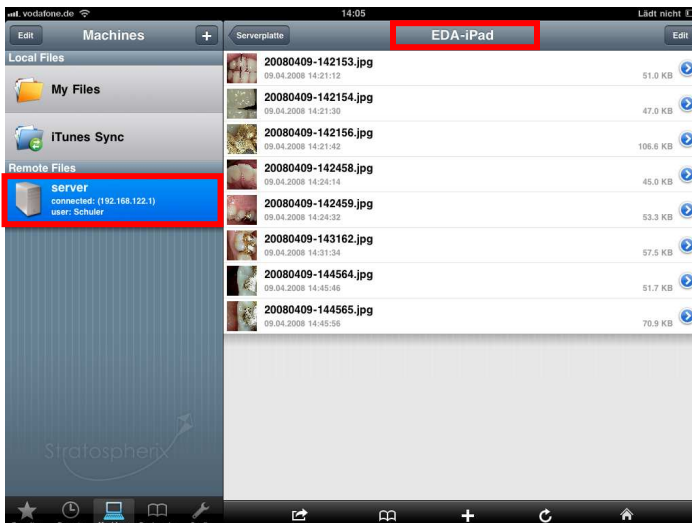
### 8.2.3 Adjustment at the iPad



At the iPad the App „filebrowser” is necessary. This App connects the iPad with the server.



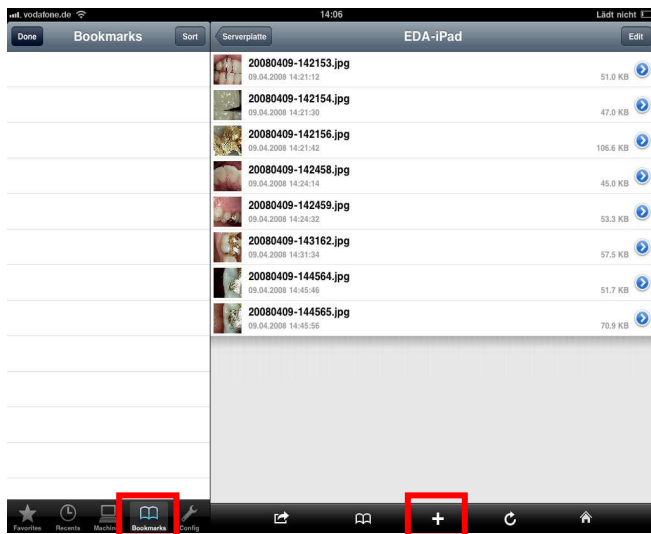
Type at „Machines" and „+" icon. Fill in the personal network data. Use „Save" to store and start connecting. Successful connected servers are shown at the left side.



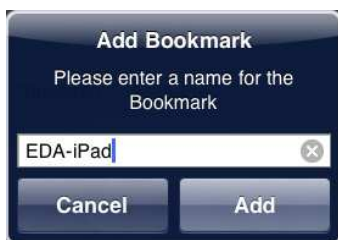
Navigate at the server to the transmission folder. The name is shown above.

Hint: Open each image to show thumbnails.

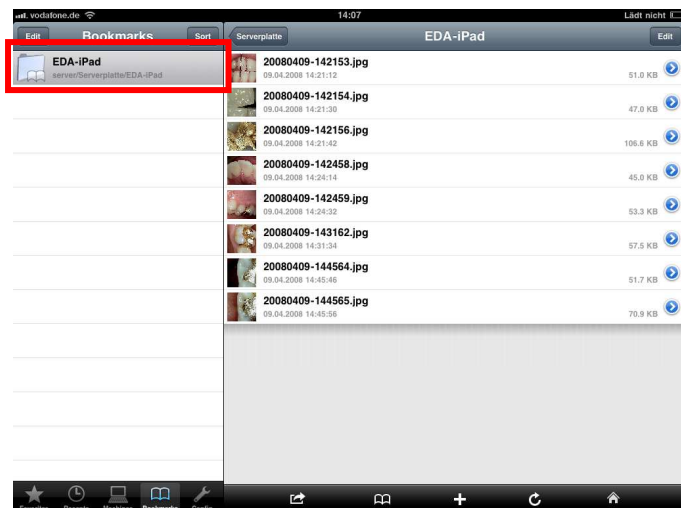
It is recommended to create a „Bookmark“. Use it to get each time directly to the images.



Type „Bookmark“ and „+“ icon.



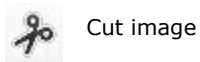
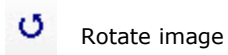
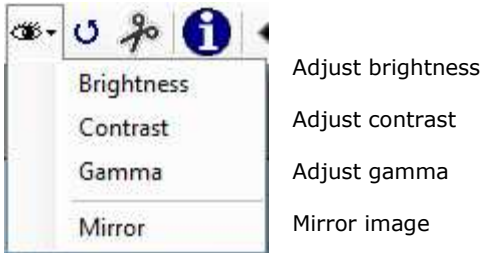
Name the bookmark and „Add“.



Created bookmarks are shown at the left side.

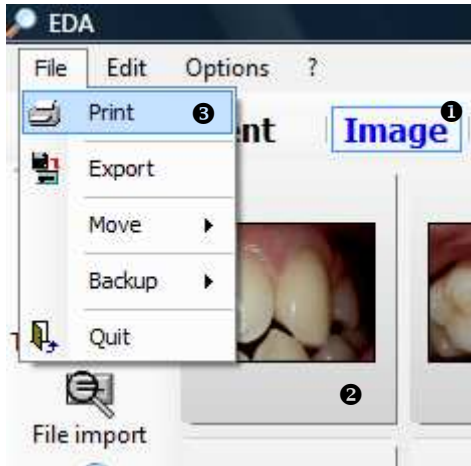
### 8.3 Edit images in MedicalEDA

There are several possibilities to edit an image in the viewer.



## 8.4 Printing images in MedicalEDA

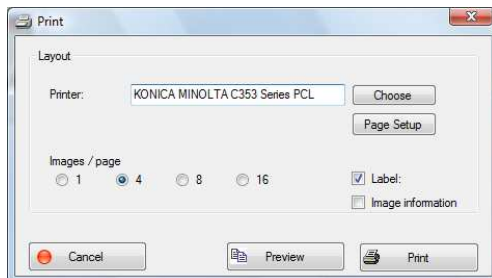
Print images directly from MedicalEDA using your printer. MedicalEDA uses the printer settings that are used in your Windows environment. Please read the instructions manual of your printer to find out which format your printer support.



❶ Open image folder.

❷ Select the images you want to print. (the amount of images per page is limited to 16).

❸ Start printing at:  
"File → Print"



Select at the "Print" window your printer, and also enter the printer configuration.

Choose how many images should be printed at one page.

Take a look at the print image with the "preview" function.

The preview window will open:



In this preview are 16 images selected.

You can print any format your printer support. Please read the instructions manual of your printer to find out which format your printer supports.

## 8.5 View video sequences



If there is a video, in the thumbnail page a camera icon will appear.

Double click the video icon or use viewer button to start the EDA video player.



The function buttons are located at the bottom of the window.

There are additional options at the menu bar.



## 8.6 Create image folders

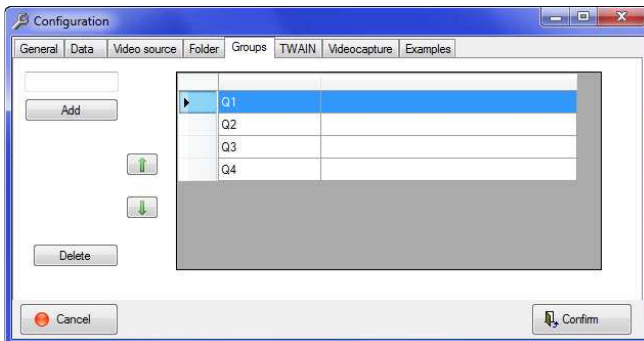
Add new image folders at “Options→ Configuration” at tab “Folder”.



Up to 10 image folders can be created. Use it to sort images into categories. It improves your overview at the database.

### 8.7.1 Create image groups

Create new image groups at “Options→ Configuration” at tab “Groups”.



Add information to images and sort these images to different groups. This helps you sort the images to groups depending on the information saved to the images.

### 8.7.2 Allocate images to the groups

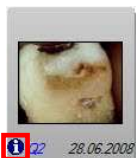
Each image can be allocated to created groups by using the right mouse button.



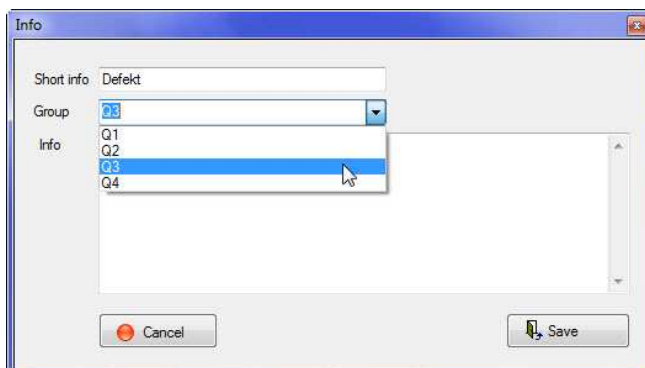
The allocated group is shown in the image preview.

### 8.7.3 Additional image information

The allocation of groups can also be done at the info window. This window allows to add further information to the image. To open the info window you have to mark the image at the preview and use the info button as shown below.



The small icon shows if there are still further information.



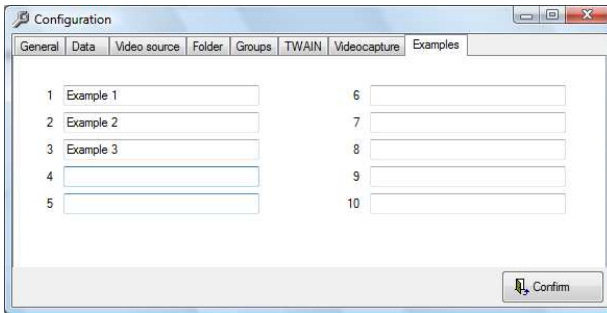
Edit the additional information in this window.

### 8.8.1 Manage example images

MedicalEDA is able to use images as example images, which can be used to be compared with taken images in other treatments.

To improve the management of the example images use the opportunity to create up to 10 example folders.

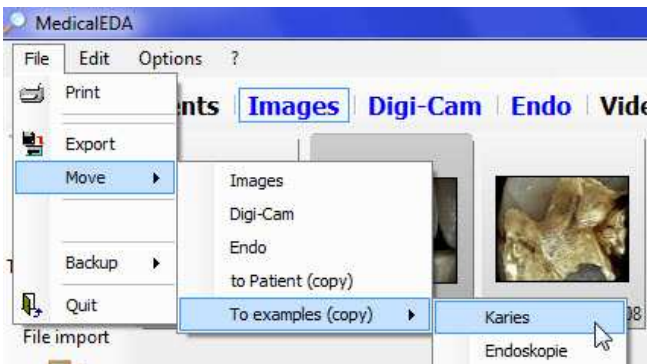
Create example folders at "Options → Settings" tab "Examples".



Manage up to 10 example folders.

### 8.8.2 Add example images to the example folders

Save your own images in the example folders. These example images are available to draw comparisons.

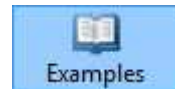
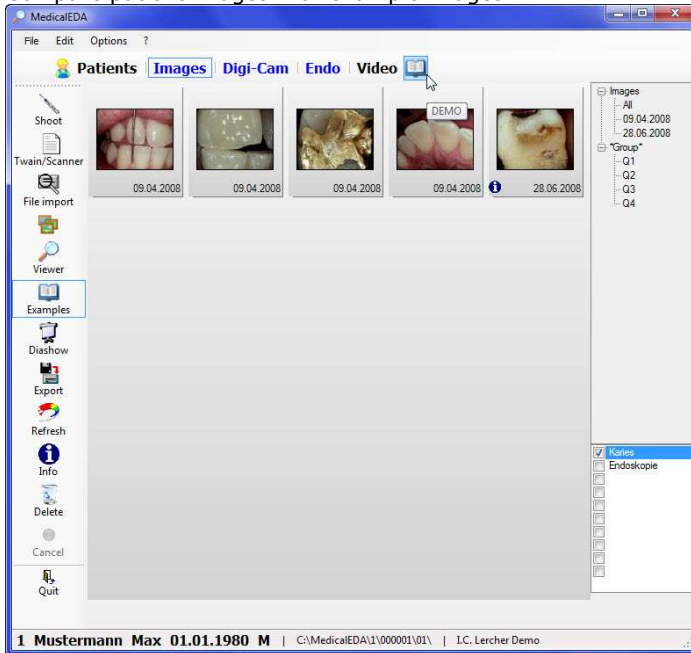


Choose the desired images at the image explorer. Navigate to "File → Move → to examples (copy)" and select the example folder.

### 8.8.3 Compare patient images with example images

① ② ③

Compare patient images with example images



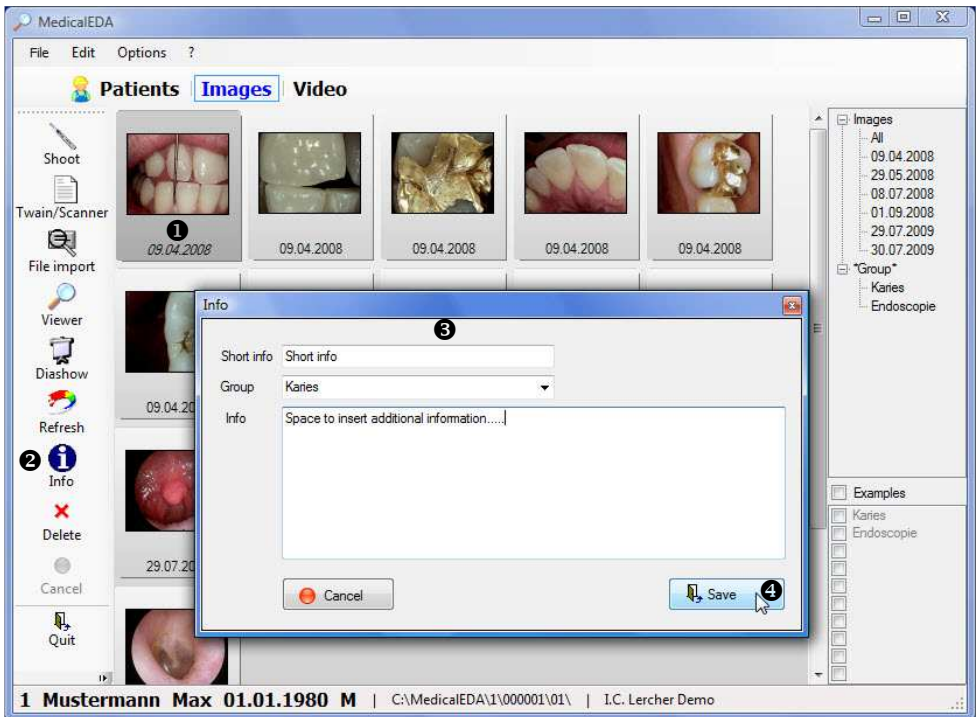
- ① Choose desired patient images.
- ② Choose example folder.
- ③ Click on the DEMO-Icon (appears when examples is activated, see step 2.)



The chosen patient images and the example images are displayed in the image-explorer. To divide the patient images from the example images, the example images are marked by a DEMO-icon at the right upper corner.



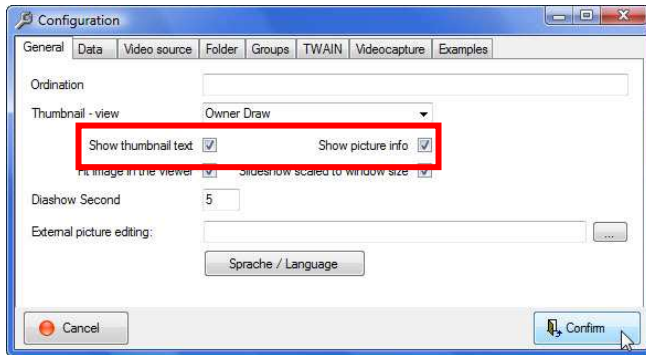
## 8.9 Add image information



The user interface:

- ❶ Select image.
- ❷ Click at the **INFO**-Button.
- ❸ The Info window will open. Insert all relevant information.
- ❹ **SAVE** the edited information.

It is possible to show more information concerning the image at the image preview. This function has to be selected at "Options → Settings" at tab "General".



Show thumbnail text:



The image name is shown below the image.

Show picture info:



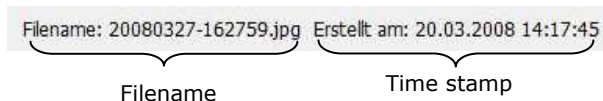
Is "show picture info" selected, the info icon combined with the group name is shown.

Also at the left bottom corner a short info depending on the selected image is shown.



Use this button to open the info box (chapter 8.7).

File-Info:



decrypted:

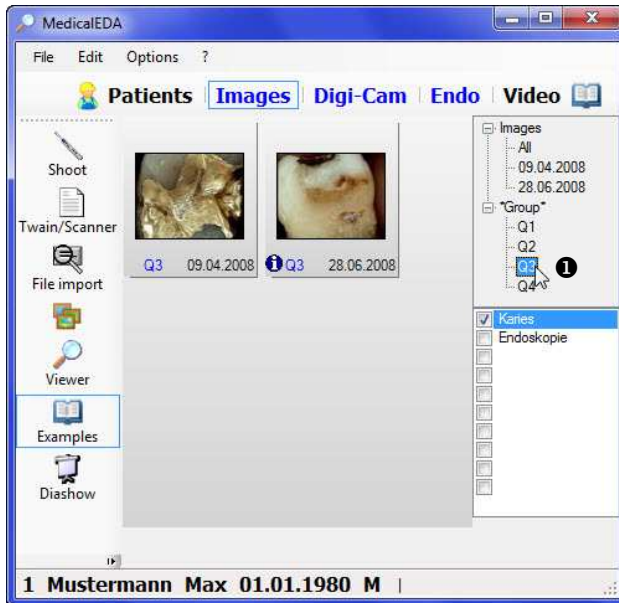
e.g.: 20080327-162759.jpg

year |MM|DD - hh|mm|ss .jpg

MM = month  
DD = day

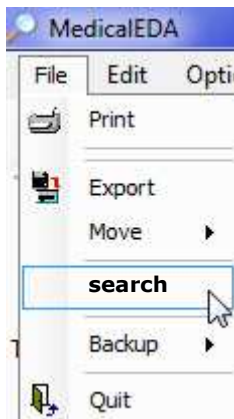
hh = heure  
mm = minute  
ss = second

## 8.10 Find images with the tree structure



If an image group is created and sorted images to the groups, you can find it easily by using the tree structure **1**.

## 8.11 Image search



The image search function at „File→ search“ is only available, if no patient is selected. It allows to show images from a group or a theme, independent to a patient.



## 9. Backup und Restore

To create a backup of the MedicalEDA database, please open "File → Backup". You can restore the database by using the function "File → Restore". It is recommended to backup isochronous.

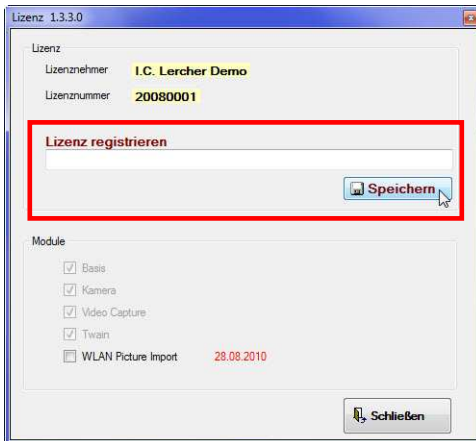


## 10. Enter the licence

### ATTENTION:

You need a valid licence to use the MedicalEDA with all features.

Open the licence window at: "Info → Licence"



Enter the "System licence data" written on your licence contract and press **SAVE...** Acknowledge with **OK**.

### IMPORTANT:

To activate the licence, please restart MedicalEDA.

### Hint:

You can individual test the MedicalEDA without a valid licence as a DEMO-Version for a period of 30 days.



## *11. Short function info of the L-Cam USB*

- Run MedicalEDA software.
- Select the “*Search*” option and choose your patient, to shoot images and save it.
- Jump to the “*Image*” folder and start the camera either with the “*Shoot*” function or press the trigger at the camera.
- In the new window the live stream of the camera is shown.
- The live steam will freeze as soon as the trigger is used. For the time of the selected delay time the frozen image will stay. (How to change the delay time please read chapter 4).
- If the image should be saved to the patients profile the trigger button have to be pressed again within the delay time.
- The frozen image will be thrown away, when the delay time expires. The window will automatically jump back to the live stream.
- When all images have been taken, close the camera window and the program will automatically load the thumbnails of the taken images.

## 12. Support

### 12.1 Deactivate undesirable software updates

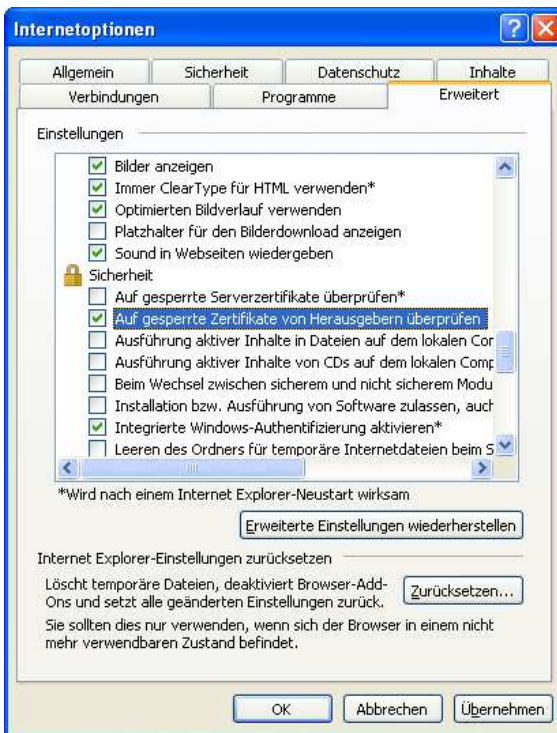
#### Failure:

MedicalEDA starts up very slowly.

#### Solution:

Open the Internet Explorer.

At "Extras → Internet → Options" at tab "extended".



Search for the group  
SECURITY.

Disable the checkbox „Check  
barred certificates of  
publishers“.

Automatic update for programs is deactivated.

- *Known problem in Windows Vista*

**Problem / failure:**

After switching off the user account control under Windows Vista, MedicalEDA starts with the default configuration.

**Reason:**

Under MS Windows Vista the operating system is protected by the user account control. When the user changes system critical settings the user will be confronted with a hint about the changing.

While installing MedicalEDA the settings of the software are saved in the windows registry, the database of windows. To ensure the stability of the operating system the MedicalEDA settings are saved to an isolated part of the windows database.

Switching off the user account control, these MedicalEDA-entries are saved at another not isolated part of the Windows-database.

**Solution:**

Repeat the first-configuration, language-selection and database-configuration. After a restart of the MedicalEDA-software your saved patient-data should be available again.

**I.C.LERCHER GmbH**

Heinrich-Fahr-Str. 1  
D-78333 Stockach

Tel.: 07771-9146280  
Fax: 07771-91462811

Mail: [info@ic-lercher.de](mailto:info@ic-lercher.de)  
Web: [www.ic-lercher.de](http://www.ic-lercher.de)