

This software is not approved for image reading or diagnostic purposes. Please use an approved system for diagnosis. The corresponding reference notes are displayed when starting each program.

1 Introduction

DÜRR Imaging is an Apple iPad app for the transfer, storage and display of image and experimental data from a remote DBSWIN installation via Wi-Fi. The intuitive operation makes it easy to integrate into everyday use and facilitates patient communication. DÜRR Imaging allows both server- and locally-stored data to be operated in tandem. The online data transferred from DBSWIN are automatically transferred to a local database as a copy and are thus also available offline, even if there is no DBSWIN connection. This allows the app to be operated outside of the practice and without a Wi-Fi connection. In order to use the entire scope of functions, DBSWIN 5.3 and Dürr Dental Mobile Connect must be installed on a PC. The DBSWIN DVD contains both applications. DÜRR Imaging's user default settings in DBSWIN must be appropriately changed in the app configuration.

2 Program start

After downloading from the App store, the DÜRR Imaging application appears on the iPad desktop, where it can be directly activated.



A provided demo database is automatically preselected and ready for use, in the already opened patient selection.



3 Help

Help is available any time in the tool bar at the lower edge of the screen. The Help text is automatically updated, and requires only an iPad Internet connection when starting the program. Any updating takes place behind the scenes and is invisible to users.

4 Configuration

4.1 Duerr Dental Mobile Connect

Data from the remote DBSWIN server are set in this area. A Wi-Fi connection to the server can only be established with valid settings.

IP address:

DBSWIN PC address in IP notation. It is automatically displayed after successful Duerr Dental Mobile Connect installation.

IP port:

IP port to be set. This data is automatically displayed after successful Duerr Dental Mobile Connect installation.

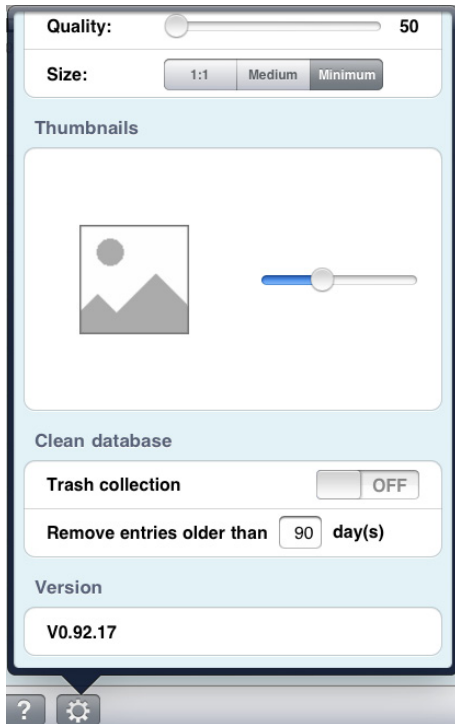
User name:

The user name set in DBSWIN must be entered here. Upon connecting, the iPad app will be registered with DBSWIN under this name. The user name can be set within the DBSWIN configuration.

Password:

If a password was set in DBSWIN for the indicated user, it must be entered here.

4.2 Image options



Parameters for reducing the volume of data to be transferred are set in this rubric. Long response times when communicating with DBSWIN can thereby be countered if Wi-Fi reception at the practice is bad.

Quality:

Determined by (JPG) image quality. 100 corresponds to the best possible quality.

Size:

Defined by the image dimensions provided by the server. For 1:1, the images are processed and saved on the iPad in original size. Minimum reduces the image to the display size of the iPad screen. Zooming in on displayed images at this setting is only possible with a sacrifice in quality.

Preview images

The desired preview image size can be adjusted interactively with the displayed controller. Image size will immediately be shown in adjacent images.

Cleaning up the database

In order to prevent the unlimited growth of the data stored offline within the DÜRR Imaging App, an automatic delete function is available. It is applied as an option at each app start.

Reducing the database:

This button activates automatic deletion of locally stored image and patient data.

Delete entries older than x day(s):

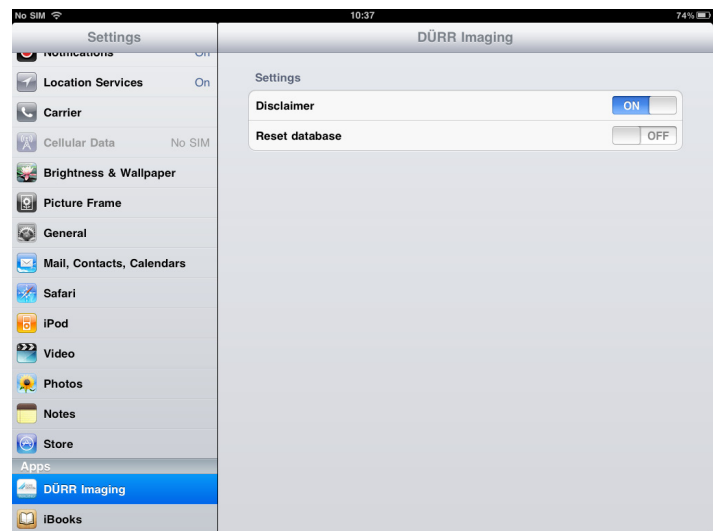
This value defines the age criteria for information to be deleted when the delete option is activated. The save date in the local app database shall serve as the date.

Note: only patient copies are deleted in the iPad database, the DBSWIN database content remains untouched. Nor are patient data deleted if patient delete protection is activated.

Version:

Displays the version number of the DÜRR Imaging App.

Other global settings can be accessed through the iPad settings dialog.



Display start-up notice:

Defines whether or not the leading safety notice should be displayed at each application start.

Resetting the database:

Deletes all data in the local iPad offline database. The demo database will remain available.

5 Selection of a practice



The DÜRR Imaging App enables access to all practices approved for the user. There are two additional specialist practices directly available on the iPad. These are offline practices with a local database that is also available without a Wi-Fi connection to a remote DBSWIN. The currently selected practice is always displayed in the title bar.

5.1 Demo practice

This practice contains a demo patient with sample data. This database is available right after installation of the DÜRR Imaging app.

5.2 iPad database

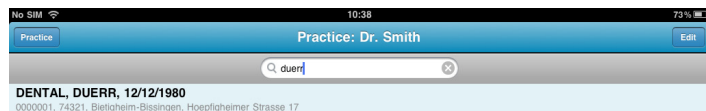
Patient and image data that were transferred to the iPad while accessing an online practice are permanently stored in this offline practice. This data stock can thus be accessed even without a DBSWIN connection. If the user has access to several online practices, then the transferred data is jointly stored in the iPad database.

Data stored in the iPad database can be deleted at any time with the various options.

5.3 Online practices

A list of available practices is displayed upon establishing a connection to DBSWIN. A connection is made once an online practice has been selected. All patients subsequently selected will be from this practice.

5.4 Patient selection



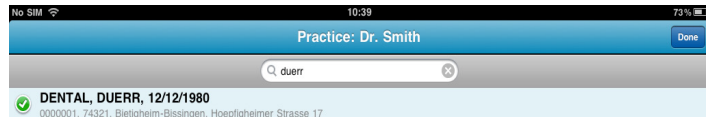
Patient selection is displayed after starting the app or after selecting another practice. The patient list is populated with the most recently selected DBSWIN patients, or with entries filled in offline.

For online practices, entering a search term into the search field filters the patient list according to this criteria. The list is automatically updated with patients for whom the search term was found.

When existing patients are selected from the displayed list, the image and examination selection changes.

Processing

After activating the processing mode, one or more patients can be selected from the displayed list. The selection is promptly indicated with a check mark.



Selected patients can then either be fed into one of the following operations, or the processing mode can be exited by clicking on Finish.

Load all images and views

Online practices can transfer all appropriate images, examinations and views into the iPad database. The transfer process may take several minutes, depending on the data volume and Wi-Fi quality.

Delete patient

This option deletes selected patients and images from the iPad database.

Patient protection

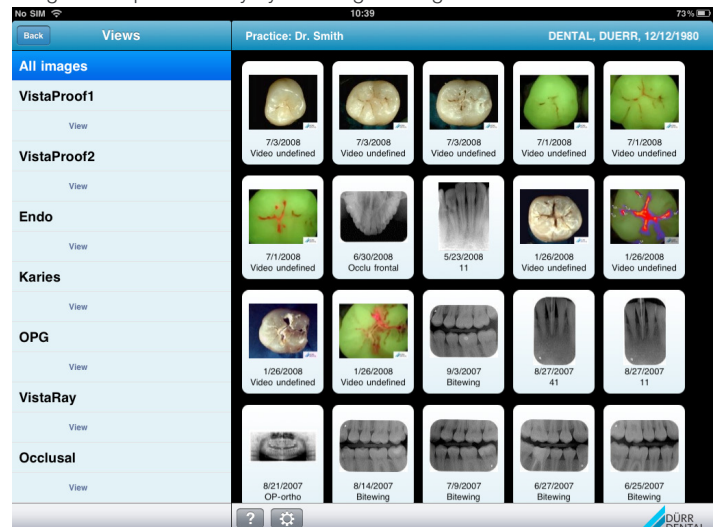
If some patients are to remain available in the iPad database even after an automatic database cleaning (->clean database), this option provides deletion protection. Protected patients are indicated in the patient list with a lock icon.



6 Image and examination selection

Views of the selected patient, as well as image previews, are displayed in this area. The image preview can be scrolled down to view more images. The image preview consists of a set of image tiles of the same size. The tile size can be adjusted in the configuration.

Image view opens directly by selecting an image.



The left-aligned view list displays examinations defined in DBSWIN. Views are highlighted with small print and indentation. After selecting a view, DBSWIN displays a geometrically correct preview. The image view can be changed here as well by selecting an image within a view.



7 Image view

The last single image selected is displayed full-screen in the image view.



The following options are available:

Zoom

The display dimensions can be changed with a 2-finger gesture as follows: Spreading the fingers apart enlarges the image at the selected position. Putting the fingers together reduces the image.

Double tapping on the open image switches between the 1:1 scale and the full-screen display.

Brightness and contrast control



This option switches to the interactive brightness- and contrast-control mode. Horizontal motions with the fingers within the displayed image adjust the brightness, vertical motions change the contrast. Clicking on Finish applies the settings and exits the processing mode.

Undoing image manipulation



This option can undo previously executed image manipulations. The saved original image is restored.

Image annotations



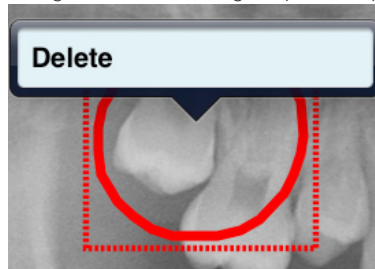
Any number of graphic annotations can be performed within an image. Just sketch the appropriate lines onto the image with a finger. Clicking on Finish applies the settings and exits the processing mode. By clicking on Cancel, the processing mode will be exited without applying the last changes.



This option allows annotations that have already been stored to be switched on and off.



Annotation colour and line thickness can be adjusted in the Annotation dialog. After selection, this dialog is exited with a finger tap in the open image.



Upon entering Annotation mode again, already existing Annotations are marked by a frame. A finger tap in this frame enables any existing annotation objects to be deleted. Just click on Delete.

Image information

Image information		Done
Type	OP-ortho	
Resolution	4.96 LP	
Creation		
Create Date	Tuesday, August 21, 2007	
Creation time	4:51:36 PM	
Image producer	Import	

DBSWIN transfers descriptive information with each image. It is displayed in a modal window.

Clicking on Finish closes the image information window.