Imaging App 5.3 Manual

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DÜRR DENTAL

IMAGING

Operating Instructions

9000-618-195/02

DÜRR DENTAL

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Important information

1 About this document

This manual forms part of the software. It corresponds to the version of the software and the technical standards valid at the time of installation.

Dürr Dental accepts no liability or responsibility for safe operation of this unit and the software if the notes and instructions contained in this manual are not observed.

The German version of the instructions is the original manual. All other languages are translations of the original manual.

1.1 Warnings and symbols

Warnings

The warnings in this document are intended to draw your attention to possible injury to persons or damage to machinery.
The following warning symbols are used:

General warning symbol

The warnings are structured as follows:

SIGNAL WORD

Description of the type and source of danger

Here you will find the possible consequences of ignoring the warning

› Follow these measures to avoid the danger.

The signal word differentiates between four levels of danger:

- **DANGER**
  Immediate danger of severe injury or death
- **WARNING**
  Possible danger of severe injury or death
- **CAUTION**
  Risk of minor injuries
- **NOTICE**
  Risk of extensive material/property damage

1.2 Copyright information

All circuits, processes, names, software programs and units mentioned in this document are protected by copyright.
The Installation and Operating Instructions must not be copied or reprinted, neither in full nor in part, without written authorisation from Dürr Dental.

2 Introduction

WARNING

This software is not suitable for image reading or diagnostic purposes. Using it incorrectly for diagnostics/image reading represents misuse.

› Please use an approved system for diagnostics/image reading.

DÜRR DENTAL Imaging is an Apple iPad app for the transfer and display of image and examination data from a server via Wi-Fi.
Its intuitive operation makes it easy to integrate into everyday use and facilitates patient communication.
DÜRR DENTAL Imaging allows both server- and locally-stored data to be operated in tandem.
The online data transferred from the sever is automatically transferred to a local database as a copy and is therefore also available offline, even if there is no server connection. This allows the app to be operated outside of the practice and without a Wi-Fi connection.
The imaging app can be used in conjunction with Dürr Dental DBSWIN with version 5.3 or higher and Dürr Dental VistaSoft . In both cases, the MobileConnect component must be installed.
The application is provided on the DBSWIN VistaSoft data carrier. DÜRR Dental Imaging uses the default user settings made in DBSWIN/VistaSoft ; these must be changed appropriately in the app configuration.

The full range of functions can only be used in conjunction with VistaSoft with version 2.0 or above, as this is the first version to include the *Tasks* function.

3 Help

The help function can be accessed at any time by tapping the ⓘ button at the bottom of the screen. The help text is automatically updated but requires the iPad to be connected to the Internet when starting the program to do this. Any updates take place in the background and are invisible to users.

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Installation

4 Installing Dürr Dental MobileConnect

4.1 VistaSoft

Dürr Dental MobileConnect is not automatically installed with VistaSoft. If VistaSoft has already been installed, MobileConnect may need to be installed separately in some circumstances.

› Restart the VistaSoft installation (see the VistaSoft manual, order number: 2110100001). Select the MobileConnect software component in the installation process.
MobileConnect is installed. No changes are made to the existing installation.

4.2 DBSWIN

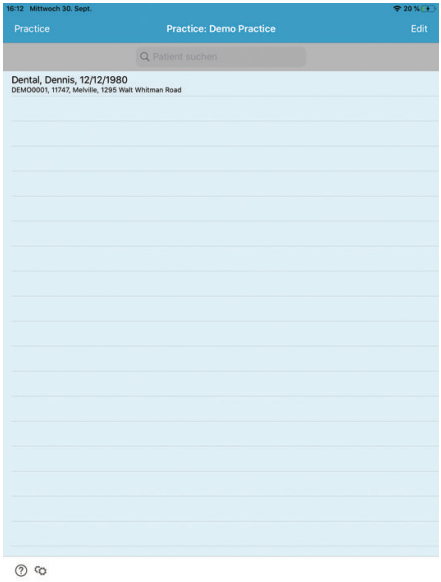
Dürr Dental MobileConnect is not automatically installed with DBSWIN. If DBSWIN has already been installed, MobileConnect may need to be installed separately in some circumstances.

› Install MobileConnect with the aid of the installation and configuration manual for Dürr Dental MobileConnect (order number: 9000-618-213).

5 Installing and starting the imaging app

› Download the DÜRR DENTAL Imaging app from the App Store.
Once it has downloaded successfully, the DÜRR DENTAL Imaging app will appear on the iPad desktop.

› Tap and start the imaging app.
The start screen is displayed for approx. 5 seconds.
In the patient selection that is then displayed, a demo database is automatically preselected and can be used straight away.



6 Establishing a connection to MobileConnect

The MobileConnect software component configures and connects the DBSWIN/VistaSoft database with the imaging app. The images saved in the DBSWIN/VistaSoft database are transferred via MobileConnect to the iPad and displayed.
For a multi-station installation, it is sufficient to install MobileConnect on one workstation.
To be able to use the imaging app, you will first need to enter the connection data in the app's connection settings.
Requirements:

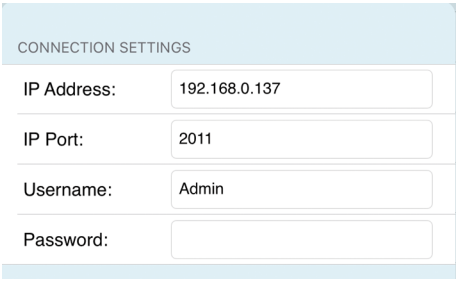
✓ The *Dürr Dental MobileConnect* software component is installed on the workstation "5 Installing and starting the imaging app".

› VistaSoft: On the computer, right-click on on the right-hand side of the taskbar.
DBSWIN: The help function opens automatically after installation. This can be reopened at any time via the start menu.

› In the context menu, left-click on ?.
The MobileConnect help function opens.

› In the imaging app, tap the button at the bottom of the screen.

› Enter the connection settings displayed in the MobileConnect help in the imaging iPad app (*IP address, IP port, user name, password*).
If no user and password have been configured, use the default settings of the MobileConnect help.



If the MobileConnect module is not licensed, a water mark is displayed on the images displayed on the imaging iPad app.

› Activate MobileConnect (see DBSWIN/VistaSoft manual, Licensing).
As soon as the MobileConnect module has been activated and both DBSWIN/VistaSoft and MobileConnect have been restarted, the watermark disappears from the images in the imaging app.

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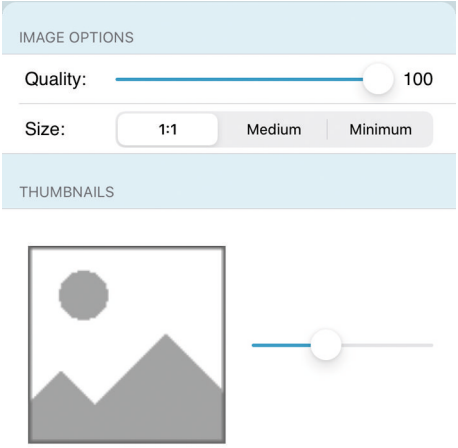
Configuration

7 Imaging app default settings

› Tap the button at the bottom of the screen.

7.1 Image options



Parameters for reducing the volume of data to be transferred can be set in the Image options section. This parameter can be used to mitigate long response times when communicating with the connected server if Wi-Fi reception at the practice is poor. In addition, default settings can be defined for the database and task management.

Setting the image quality:

› Use the slider to set the image quality (JPG). 100% corresponds to the best possible quality.

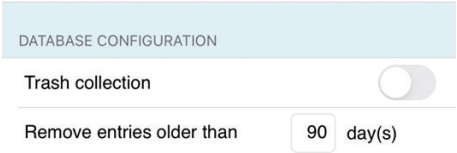
Setting the image size:

› Select the image size to be used when transferring the images from the server.
For 1:1, the images are processed and saved on the iPad in their original size.
Minimum reduces the image to the display size of the iPad screen. If you zoom in on displayed images with this setting, you will see a noticeable loss of quality.

Setting the preview image size:

› Use the slider to set the required preview image size.
The image size will immediately be shown in adjacent images.

7.2 Database settings



In order to prevent the unlimited growth of the data stored offline within the imaging app, an automatic delete function for image and patient data saved locally is available. It is applied as an option each time the app is started.

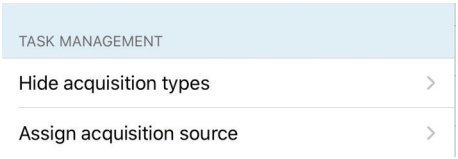
› If you wish to use the automatic delete function, activate *Trash collection*.

› Under *Remove entries older than n day(s)*, enter after how many days the information should be deleted.
The save date in the local iPad database shall serve as the date.

Only the copies of patient data in the iPad database are deleted; the database content on the connected server remains untouched! Patient data is also not deleted if the patient delete protection function has been activated.

7.3 Job management

The options *Hide acquisition types* and *Assign acquisition sources* can only be used in conjunction with Dürr Dental VistaSoft .



The options can be used to preset which acquisition types are shown or hidden when a task is created.
In addition, a corresponding acquisition source can be assigned to each acquisition type.

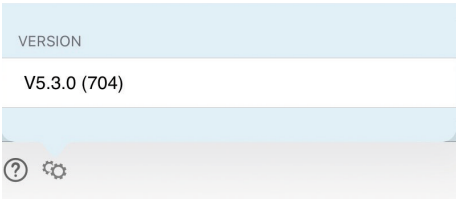
Hide acquisition types:

› Tap *Hide acquisition types*.
› Deselect all acquisition types which you do not wish to be displayed. All acquisition types are selected by default.

Assign acquisition sources:

› Tap *Assign acquisition sources*.
› Select an acquisition type from the list.
› Assign the corresponding acquisition source to the selected acquisition type.

7.4 Version

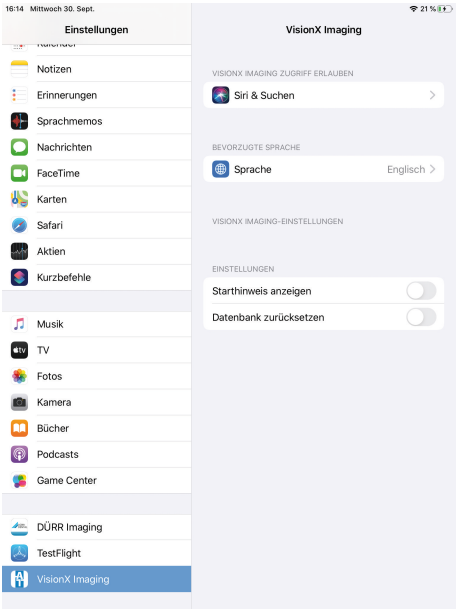


The current version number of the DÜRR DENTAL Imaging app is displayed.

8 Further settings

Access to the camera and communication with Siri can be set using the options.
You can also set whether the start-up notice should be displayed each time you start the app or whether the database should be reset.

› Tap the button on the iPad.
› Select *DÜRR DENTAL Imaging* on the left-hand side.



Camera:

› Deactivate to revoke permission for the app to use the camera.
If permissions are revoked, you may no longer be able to access all functions in the app.

Siri & Search:

› Select Siri & Search to call up communication with Siri.
› Make the required settings.

Display start-up notice:

› Deactivate if the leading start-up notice should not be displayed each time you start the app.

Reset database:

› Activate to reset the database.
All data in the local iPad offline database is deleted. The demo data will remain available.

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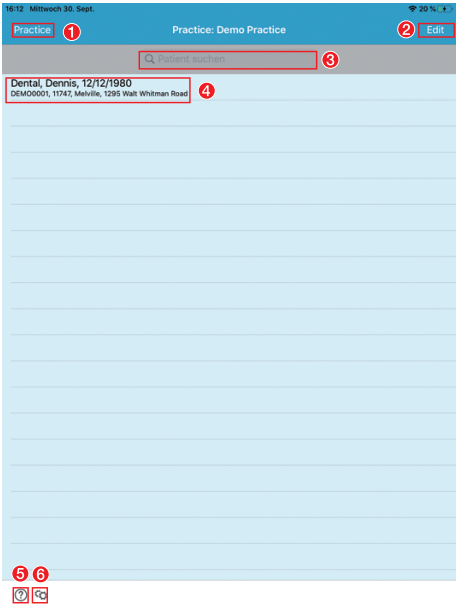
Operation

9 Overview

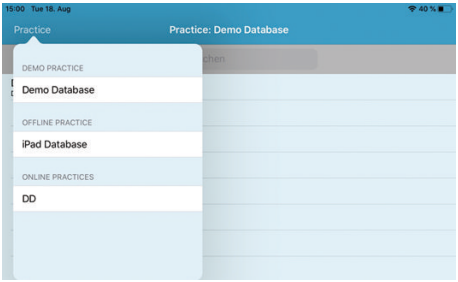


1 Practice button
2 Edit button
3 Patient search field
4 List of patients
5 Help button
6 Connection settings button

10 Practice selection

The DÜRR DENTAL Imaging app enables access to all practices approved for the logged-in user. Two specialist practices are also available. These are offline practices with a local database that is also available without a Wi-Fi connection to a server.

› Tap the ***Practice*** button and select the practice from the list.



10.1 Demo practice

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

10.2 iPad database

Patient and image data that was transferred to the iPad while accessing an online practice is automatically and permanently stored in this offline practice. This database can therefore be accessed even if there is no Wi-Fi connection to a server.

If the user has access to several online practices, then the transferred data is jointly stored in the iPad database.

Transferring data for one or more patients to the offline practice:

› Once you have selected the online practice, tap the ***Edit*** button.

› Select the patient by tapping the button to the left of their name.

› Tap the button at the bottom of the screen.
The transfer can be stopped at any time by tapping the *Cancel* button.
The patient and image data is transferred.
Once the data has been transferred successfully, a corresponding message appears. This can be acknowledged by tapping "OK".

Delete patient:

› Select the iPad database in the practice selection.
› Tap the *Edit* button.
› Select the patient by tapping the button to the left of their name.
› Tap the button at the bottom of the screen.
The selected patients and images are deleted from the iPad database.

Activating the delete protection function:

› Tap the *Edit* button.
› Select the patient by tapping the button to the left of their name.
› Tap the button at the bottom of the screen.
Delete protection is activated for the selected patients and images. Protected data will remain available in the iPad database even if the database is purged automatically ("7.2 Database settings").

10.3 Online practices

A list of available practices is displayed when a connection to the server is established. A connection is made once an online practice has been selected. All patients subsequently selected will be from this practice.

11 Patient selection

Patient selection is displayed after starting the app or after selecting another practice. The patient list is populated with the patients most recently selected via the server or with entries saved offline.
For online practices, the patient list can be filtered based on a search criterion.

› Tap the search field.
› Enter a search term using the keyboard that pops up.

Result:
The list is automatically updated with patients who match the search term.

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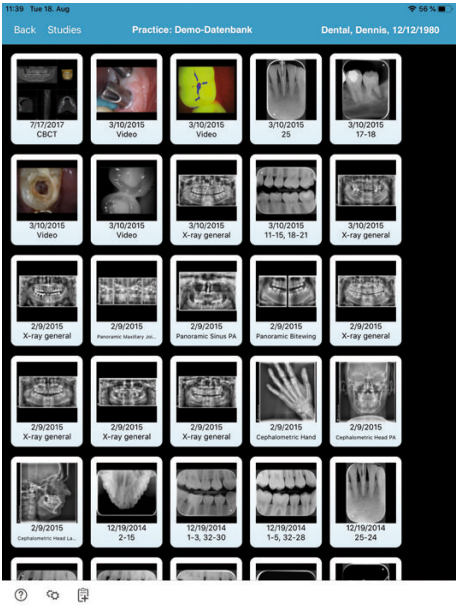
12 Image selection

Views of the selected patient, as well as image previews, are displayed in this area. The image preview consists of a set of image tiles of the same size and you can scroll down to view more images.

› Tap the name of the patient.



A preview of the saved images is displayed.

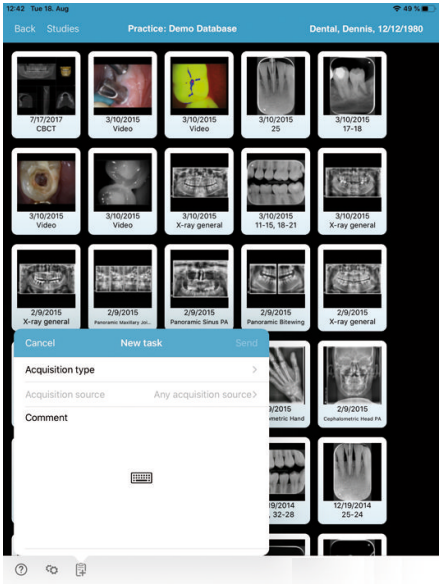
The size of the preview images can be set in the image options (see "7.1 Image options").

12.1 New job

The *New task* option is only available in conjunction with VistaSoft . This option is not supported if you are working with DBSWIN. The corresponding buttons are not displayed in this case.

Tasks for creating new images can be generated and sent via the imaging app. Once the data has been transferred successfully, the tasks are displayed in the task overview of the VistaSoft application, where they can be accepted or cancelled.

› Tap the button at the bottom of the screen. The input window for a new image task appears.



› Tap *Acquisition type* and select the corresponding acquisition type from the list.

› Tap *Acquisition source* and select the corresponding acquisition source from the list.

› Enter a comment under *Comment* if you wish to.

› Complete the entry and send the task by tapping the *Send* button.
Once the data has been transferred successfully, a corresponding message appears. This must be acknowledged by tapping *Close*.

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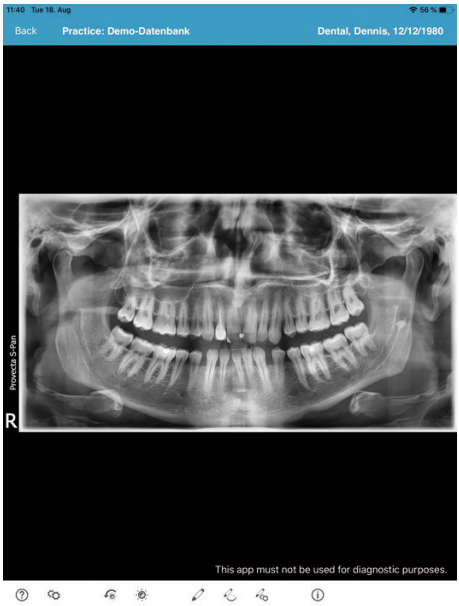
13 Image view



› Select an image by tapping the preview image.
The selected image is displayed full-screen in the image view.

13.1 Zoom

The display dimensions can be changed as follows:

› Place two fingers on the screen and move them apart.
The image is enlarged at the selected position.

› Place two fingers on the screen and move them towards each other.
The image is reduced.

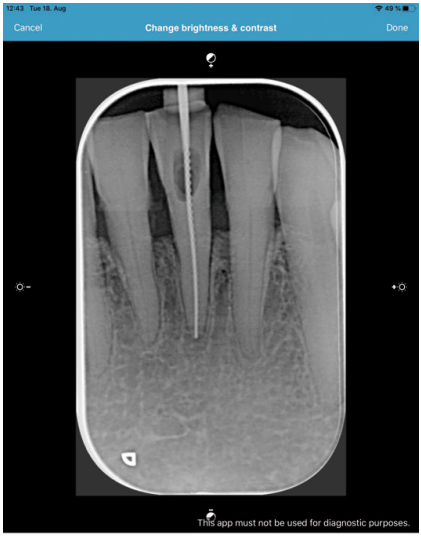
› Double-tapping on the open image switches between the 1:1 scale and the full-screen display.

13.2 Image corrections

Image corrections and annotations are not synchronised with VistaSoft/DBSWIN and are only visible on the iPad on which they were made.

Brightness and contrast control:

› Tap the button.
This display switches to the interactive brightness- and contrast-control mode.



› You can adjust the brightness by moving your finger horizontally across the displayed image.

› You can adjust the contrast by moving your finger vertically up and down the displayed image.

› Tap the *Done* button.
The settings are applied and the app exits processing mode.

Undoing image manipulations:

› Tap the button.
Previously executed image manipulations are undone. The saved original image is restored.

13.3 Annotations

Image corrections and annotations are not synchronised with VistaSoft/DBSWIN and are only visible on the iPad on which they were made.

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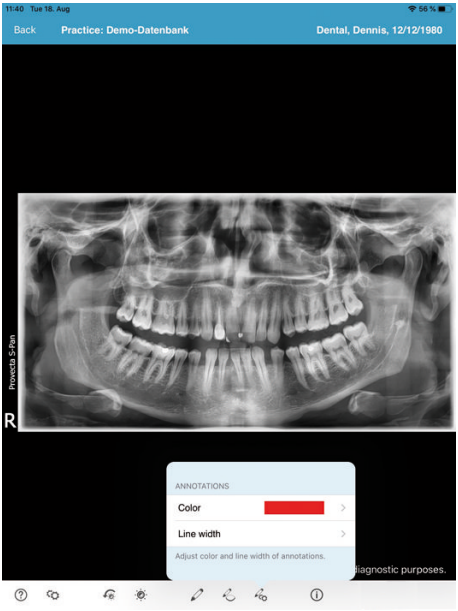
Adjusting the colour and line width

› Tap the button.



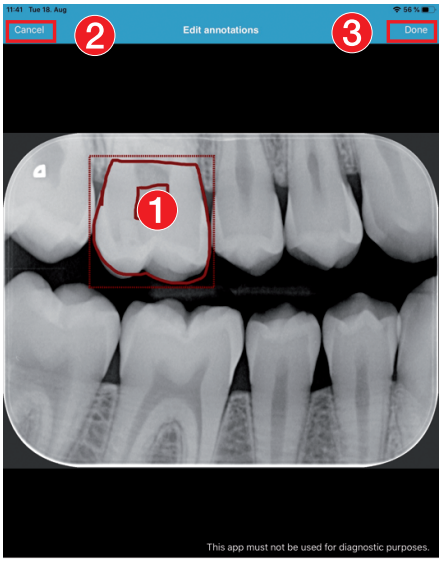
› Tap *Colour* and select the colour.
Once you have finished, tap the open image to exit the dialog.

› Tap *Line width* and select the line width.
Once you have finished, tap the open image to exit the dialog.

Once you have finished, tap the open image to exit the dialog.

Drawing annotations

› Tap the button.
Any number of graphic annotations can be made within an image. Use your finger to draw the appropriate lines onto the image.



1 Annotation with selection frame
2 Cancel button
3 Done button

› Tap the *Done* button.
The settings are applied and the app exits processing mode.

› By tapping the *Cancel* button, processing mode will be exited without applying the last changes.

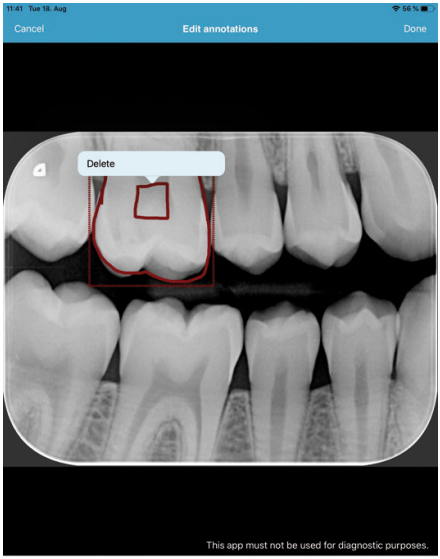
Showing and hiding annotations

› Tapping the or button allows you to show or hide saved annotations.

Deleting annotations

› Show the annotations by tapping on the button.

› Tap the button.
Any annotations are displayed with a frame around them.
› Tap the annotation within the frame.
The *Delete* command is shown.



› Tap the *Delete* field.
The selected annotation is deleted.
› Exit processing mode by tapping the *Done* button.
› The deletion process can be stopped without saving the change by tapping the *Cancel* button.

13.4 Image information

› Tap the ⓘ button in the image view.

Image information	Done
GENERAL INFORMATION	
Colour type	Greyscale, 16bit (1 x 16bit)
Image size	1.613 x 1.240
Pixel size	0.03 mm / 0.03 mm
Calibration of the pixel size	Geometry
Image type	Intraoral
PATIENT	
Name	Dental, Dennis
Patient ID	DEMO0001
Male/female	♂
DIAGNOSIS	
Examined area	18-14, 48-44

› Descriptive information is transferred from the server with each image. This is displayed in a modal window.

The amount and type of image information displayed may vary depending on the image type.

› Close the image information window by tapping the *Done* button.

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