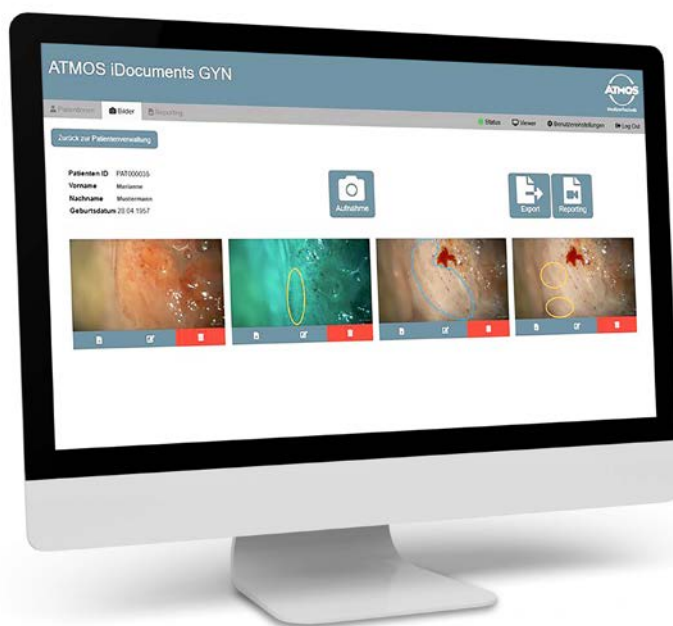


Operating Instructions

ATMOS iDocuments

GYN

English



These operating instructions are valid from software version 1.4

GA1GB.400000.0

2022-10 Index 01

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1 Intended purpose | use

The hardware and software product ATMOS iDocuments GYN is used to record images via an HDMI signal and forward them to the hospital IT or practice software.

The recordings are optionally linked to the patient's indication or an intervention. The treating physician uses the software product via the foot switch or the device controls.

- ☞ The product is installed by trained personnel.
- ☞ The product has no direct contact with the patient.

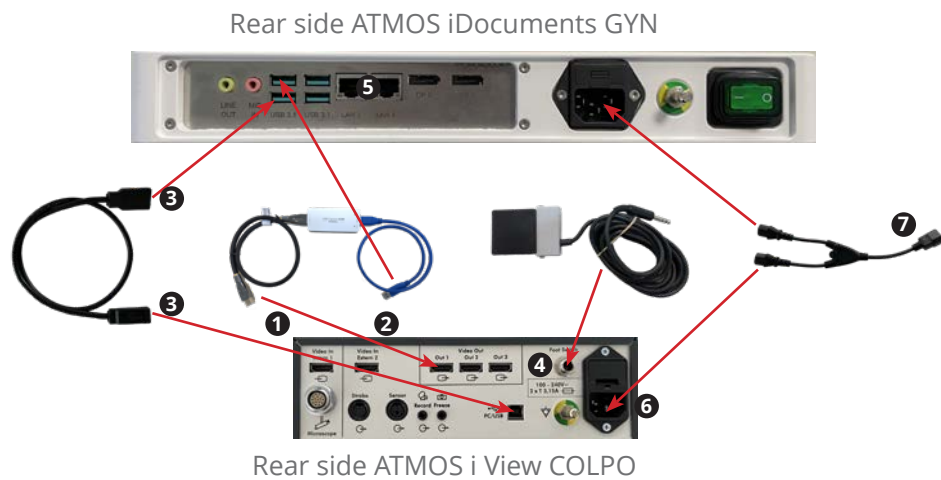
1.1 Front view



1.2 Rear view



2 Wiring



1. Connect the HDMI cable to one of the "Video Out" outputs of the ATMOS i View COLPO supply module and the HD grabber.
 2. Connect the USB 3.0 cable of the HD grabber to a USB 3.1 input on the ATMOS iDocuments GYN.
 3. Connect the USB A/B cable between the "PC/USB" output of the supply module and a USB 3.1 input on the ATMOS iDocuments GYN.
 4. Connect the foot switch to the "Foot Switch" output of the power supply module.
 5. Connect one of the LAN inputs on the ATMOS iDocuments GYN to a network socket.
 6. Connect the Y connector to the power supply of the supply module and the ATMOS iDocuments GYN.
 7. Connect an IEC power connector to the Y connector.
- ☞ When ATMOS iDocuments GYN is started and connected to the network, you can access the software in the web browser via <http://atmos>.

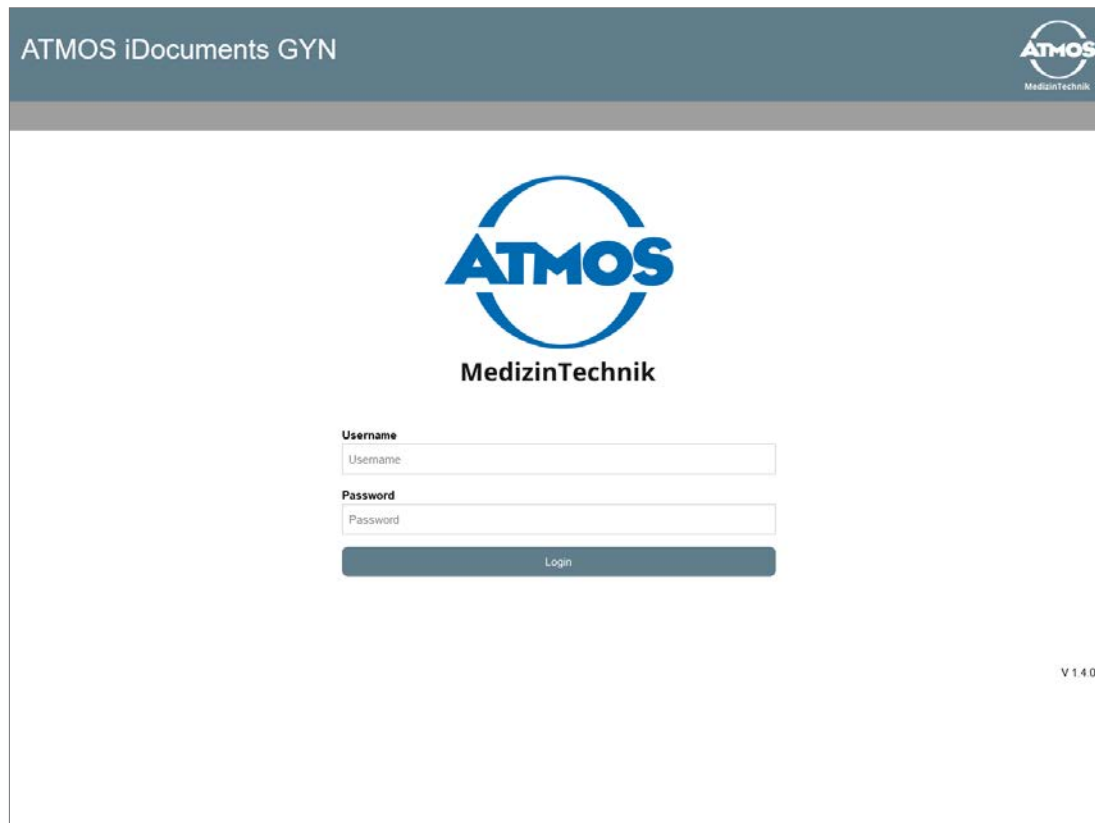
3 Login area

The software is accessed via a web browser, which is where you first reach the login area. You can log in either as a user or as an administrator. On delivery, only one administrator is created as a user. This user is:

Username: atmosadmin

Password: atmos

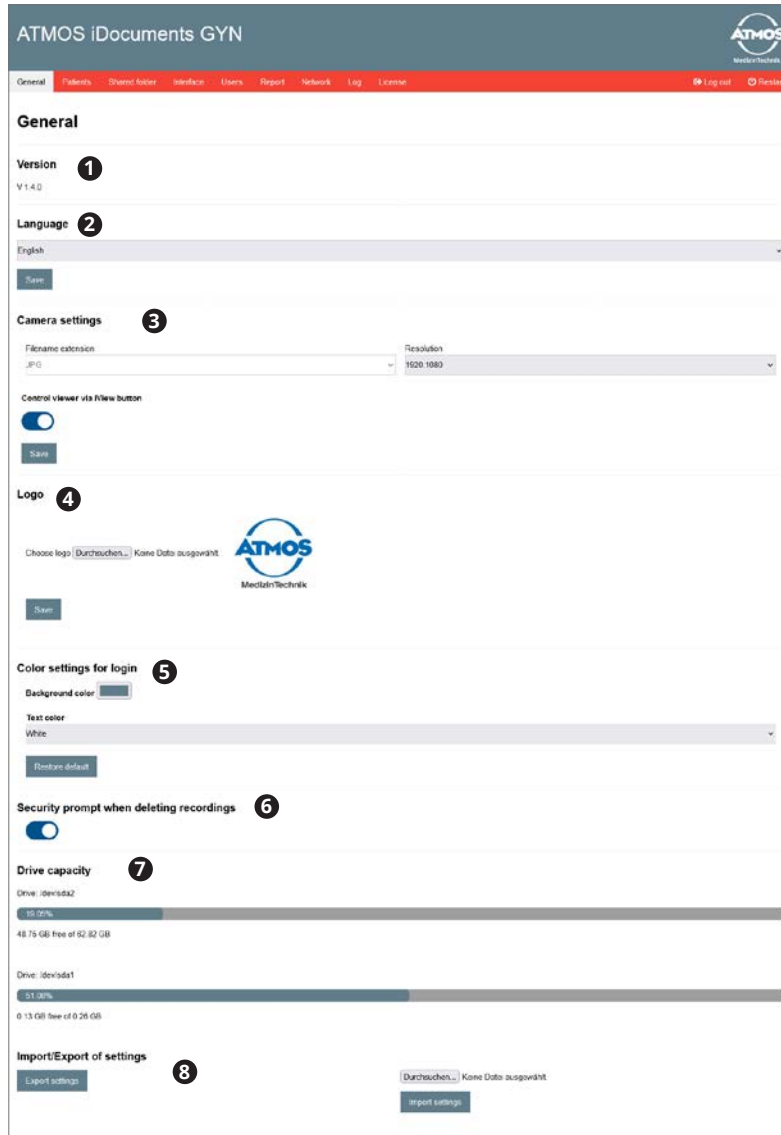
🔑 Please change the password after logging in for the first time!



The screenshot shows the login interface for ATMOS iDocuments GYN. At the top left, the text "ATMOS iDocuments GYN" is displayed. At the top right, there is a small logo for "ATMOS MedizinTechnik". The main content area features a large "ATMOS MedizinTechnik" logo centered on the page. Below the logo, there are two input fields: "Username" and "Password". The "Username" field contains the text "Username" and the "Password" field contains the text "Password". Below these fields is a dark blue "Login" button. In the bottom right corner of the page, the version number "V 140" is visible.


4 Administration area

4.1 General



①	Current version
②	Language selection
③	Image resolution setting as well as the option whether the video button on the ATMOS i View COLPO can be used to control the viewer (go to next image).
④	A logo can be saved here as a JPG or PNG file. This logo is used for the creation of the report and the start page of the viewer.
⑤	Color settings for the header on the login page. The changes are saved automatically. The original values are restored by pressing the "Restore default" button.
⑥	When this option is enabled, the user must confirm the deletion of a recording once again.
⑦	Drive capacity
⑧	Export and import options for the settings. The user settings and Windows drives are not saved in the process.

4.2 Patient management

ATMOS iDocuments GYN


General Patients Shared folder Interface Users Report Network Log License
Log out Restart

Patients

Delete examinations

Delete open cases 1

Delete open cases after (days)



Delete finished cases

Delete finished cases after (days)

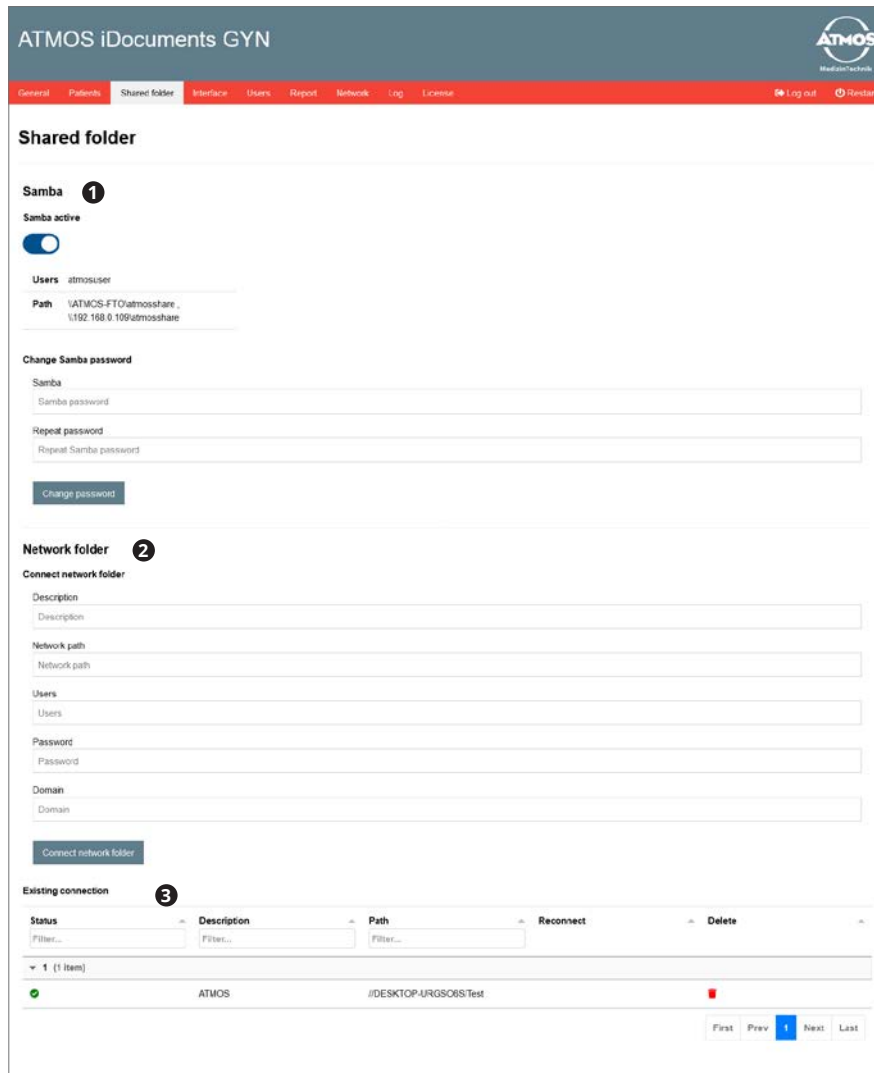
Save

Status	Patient ID	First name	Last name	Date...	Sex	Stud...	Acc...	Adm...	Mod...	Delete	Rese...
	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>	<input type="text" value="Filter..."/>
1 - New patient (1 Item)											
■ New patient	ATM000007	Jane	Doe	01/01/20...	F	1669372...				🗑	
2 - In progress (1 Item)											
📄 In progress	ATM000005	Jane	Doe	01/01/19...	F	1669372...				🗑 2	
3 - exported (1 Item)											
📄 Exported	ATM000004	Jane	Roe	01/01/20...	F	1669372...				🗑 ↺ 3	

First Prev 1 Next Last

1	In this section, you can set the time frames after which “open cases” and after which “finished cases” should be deleted. If the option is enabled, you can set the number of days after which the open and closed cases should be deleted from the software. If the option is disabled, no examinations are automatically deleted from the software.
2	This table displays all patient data currently stored in the software. Individual patients can be deleted from the software using the delete symbol  .
3	Finished examinations that are still in the system can be reset to the status “In progress” using the “Reset status” button  .

4.3 Folder sharing



①	Here you can set up a Samba share on the ATMOS system. The share can be enabled or disabled via the switch. If the share is enabled, the path to the share is displayed.
②	The system can also connect to a share on a remote computer. To do this, the description, network path, user, password, and the domain (optional) must be specified in these fields.
③	All connected network folders and their connection status (connected or disconnected) are displayed here.

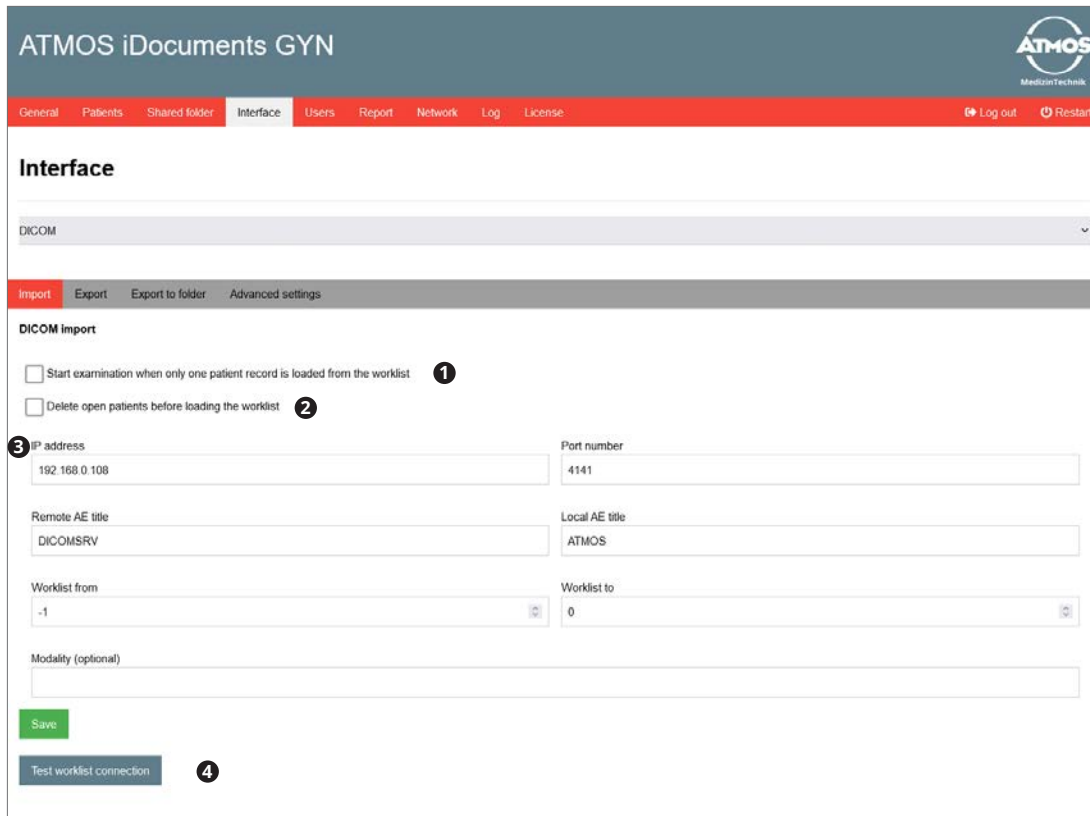
4.4 Interface settings

System interfaces are configured in this section. You can choose between the following interfaces in the drop-down list:

- DICOM
- GDT
- Manual creation of patient records

4.4.1 DICOM

Import



ATMOS iDocuments GYN

General Patients Shared folder **Interface** Users Report Network Log License Log out Restart

Interface

DICOM

Import Export Export to folder Advanced settings

DICOM Import

Start examination when only one patient record is loaded from the worklist **1**

Delete open patients before loading the worklist **2**

3 IP address: 192.168.0.108 Port number: 4141

Remote AE title: DICOMSRV Local AE title: ATMOS

Worklist from: -1 Worklist to: 0


Modality (optional):

Save

Test worklist connection **4**

1	If this option is enabled and only one patient from the worklist has been transferred, the interface for recording images with the transferred patients starts automatically.
2	If this option is enabled, all open cases are deleted before the worklist is loaded. This means that only the current patients in the DICOM worklist are available in the software.
3	The settings for transferring the patient data from the worklist can be made here.
4	The connection to the worklist can be tested by clicking on this button.

Export

ATMOS iDocuments GYN


General Patients Shared folder **Interface** Users Report Network Log License
Log out Restart

Interface

DICOM

Import **Export** Export to folder Advanced settings

DICOM export

Image export ❶

PDF export

IP address ❷

Port number

Remote AE title

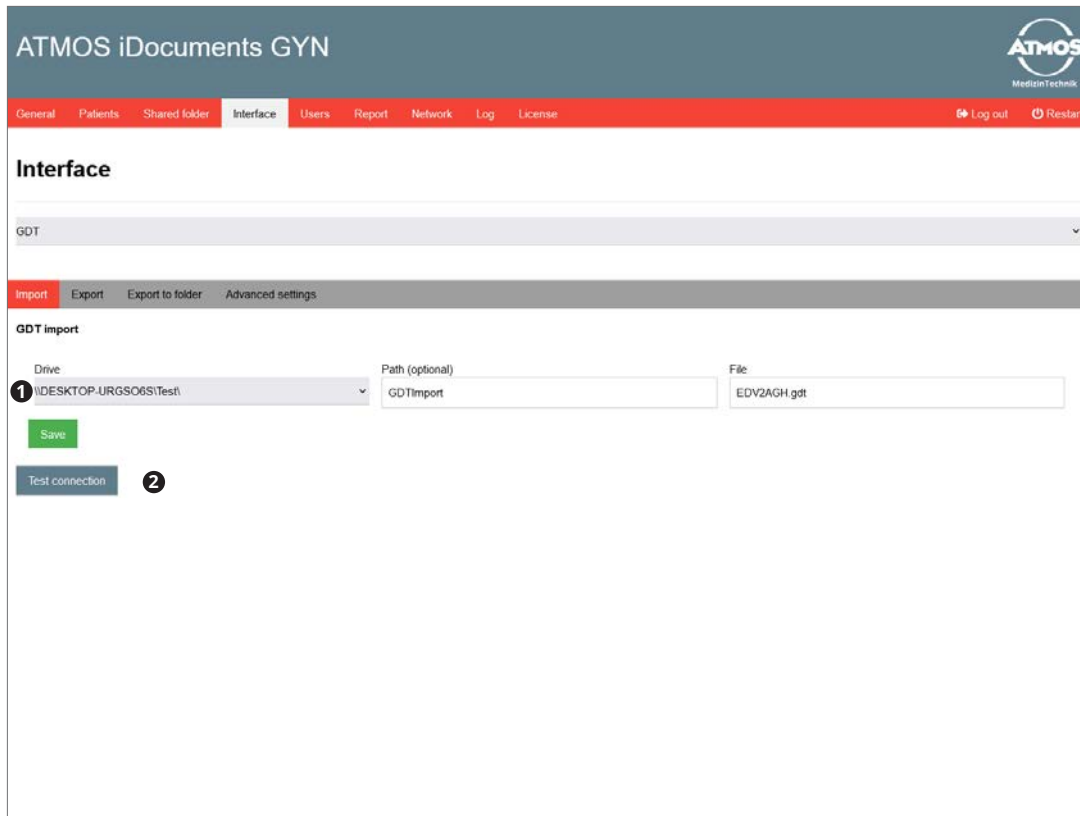
Local AE title

❸

❶	Here you can select which formats are to be transferred via DICOM. If neither of these two options is selected, no DICOM export will take place.
❷	This section defines the parameters for the DICOM export.
❸	The connection for the export can be tested by clicking on this button.

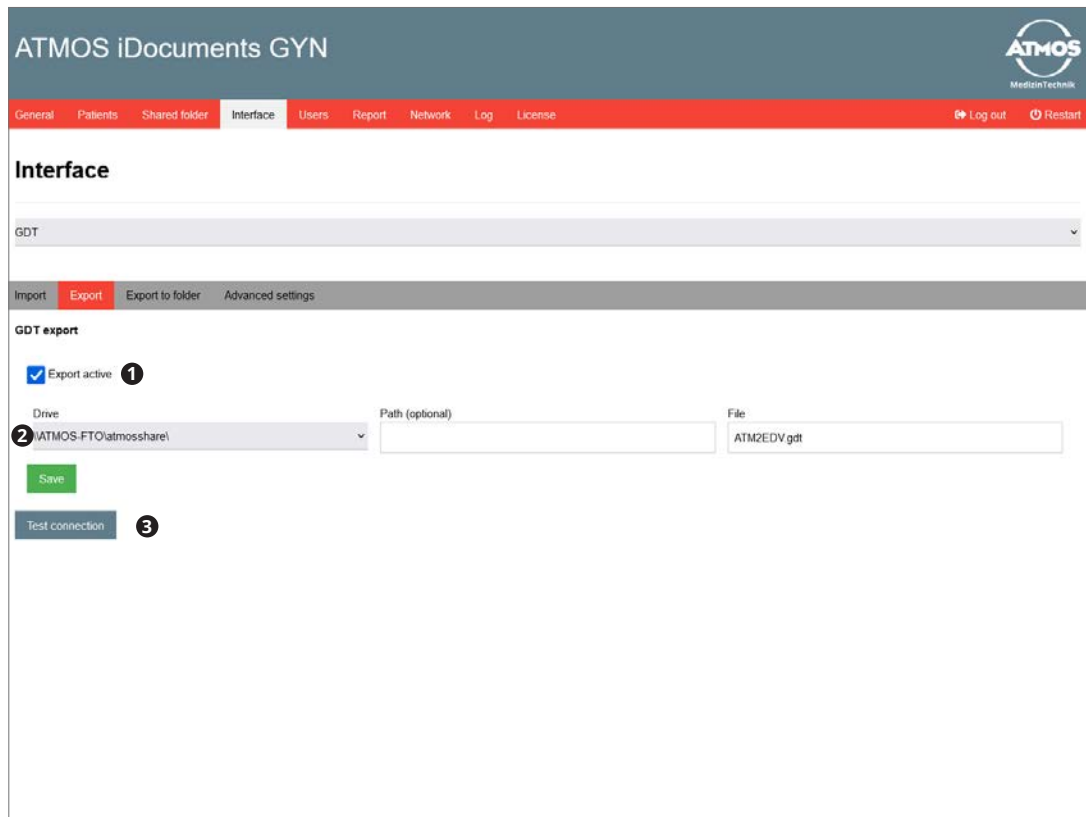
4.4.2 GDT

Import



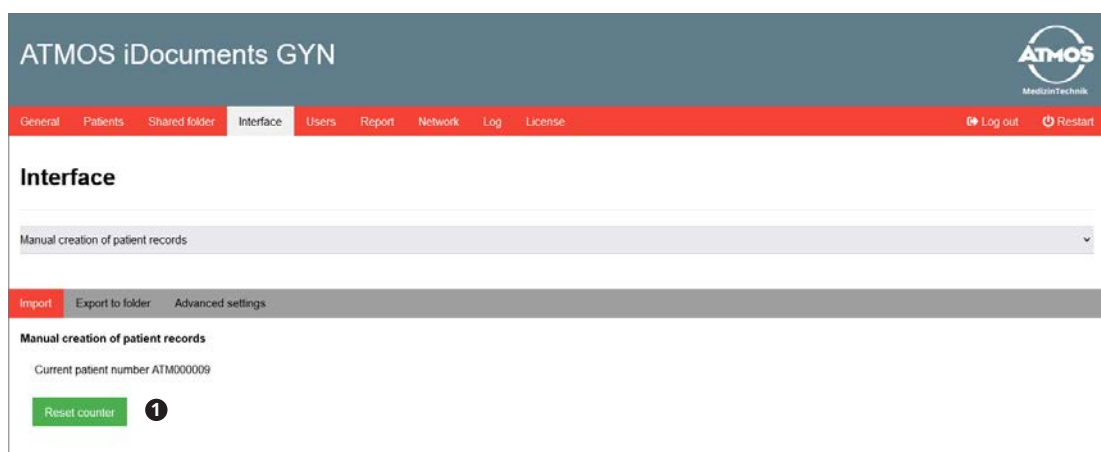
❶	Path to the GDT import file
❷	The path to the import file can be tested by clicking on this button.

Export



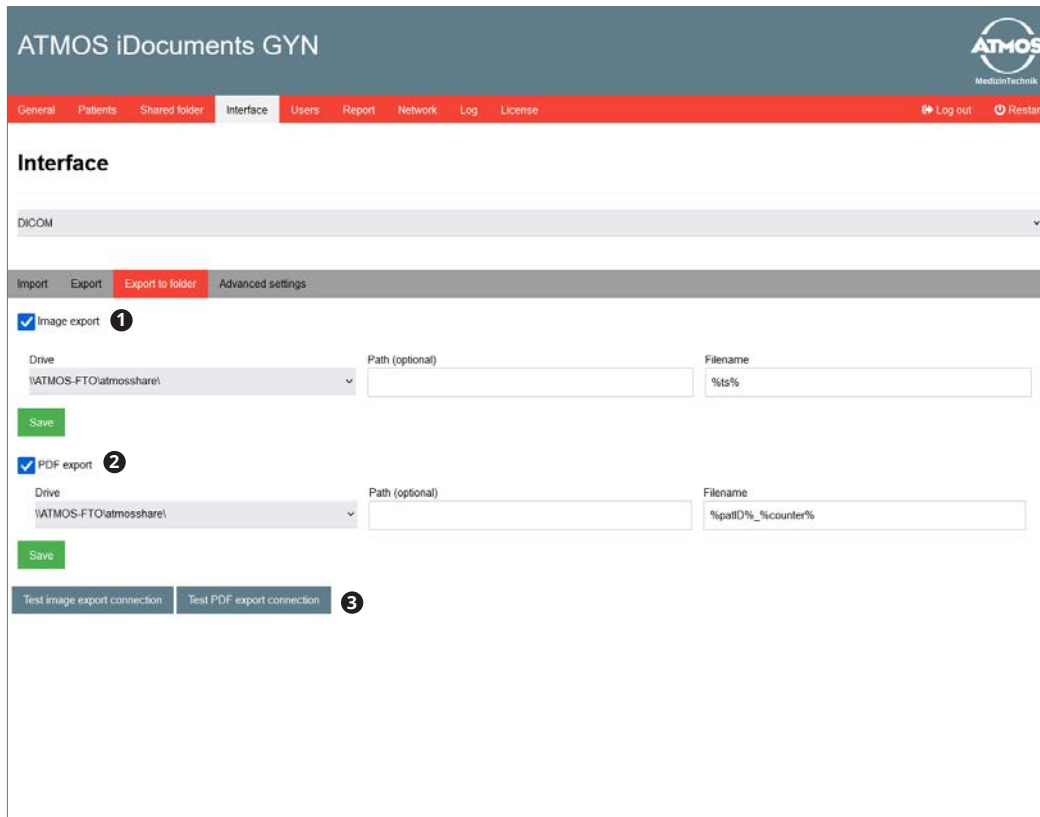
①	If this option is enabled, a GDT export will be made.
②	File path of the GDT export file
③	The file path can be tested by clicking on this button.

4.4.3 Manual creation of patient records



①	The current patient number can be reset here when creating patient records manually.
---	--

4.4.4 Export to folder



The screenshot shows the 'Interface' settings page for ATMOS iDocuments GYN. The 'Export to folder' tab is active. It contains two sections: 'Image export' (1) and 'PDF export' (2). Each section has a 'Drive' dropdown menu (set to '\\ATMOS-FTO\atmosshare\'), a 'Path (optional)' text input, and a 'Filename' text input. The 'Image export' filename field contains '%ts%'. The 'PDF export' filename field contains '%patID%_%counter%'. Below these sections are two buttons: 'Test image export connection' and 'Test PDF export connection' (3).

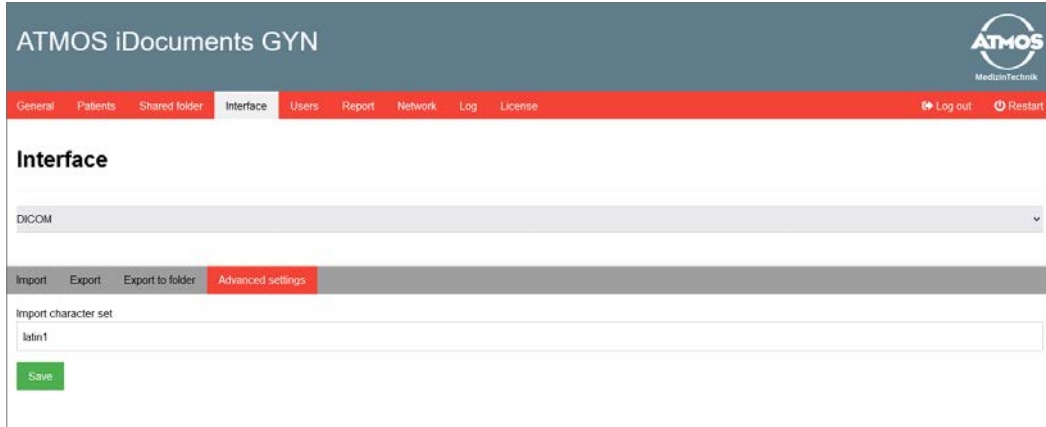
1	Image export settings
2	PDF export settings
3	The export paths can be tested by clicking on this button.

The following placeholders can be used for the file name:

Placeholder	Definition
%patID%	Patient ID
%firstName%	First name
%lastName%	Family name
%dob-YYYYMMDD%	Date of birth
%dob-DDMMYYYY%	Date of birth
%studyId%	Study ID
%accessionNumber%	Accession Number
%admissionID%	Admission ID
%modality%	Modality
%ts%	Timestamp
%ts-YYYYMMDD%	Timestamp
%ts-YYMMDD%	Timestamp
%ts-DDMMYYYY%	Timestamp
%ts-DDMMYY%	Timestamp
%ts-DDMMYYYY%	Timestamp
%ts-YYYYMMDDSSMM%	Timestamp

4.4.5 Advanced settings

In the advanced settings, the character set can be defined for files that are imported or exported. This character set is valid for reading the DICOM and GDT files as well as for creating the DICOM and GDT exports.



ATMOS iDocuments GYN

General Patients Shared folder **Interface** Users Report Network Log License Log out Restart

Interface

DICOM

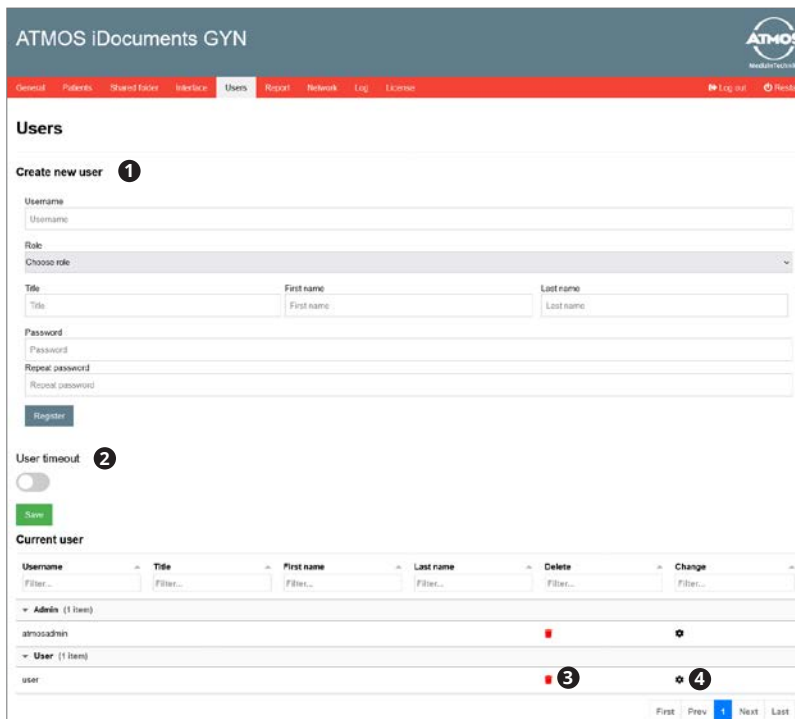
Import Export Export to folder **Advanced settings**

Import character set

latin1

Save

4.5 Users



ATMOS iDocuments GYN

General Patients Shared folder Interface **Users** Report Network Log License Log out Restart

Users

Create new user 1

Username
Username

Role
Choose role

Title
Title

First name
First name

Last name
Last name

Password
Password

Repeat password
Repeat password

Register

User timeout 2

Save

Current user

Username	Title	First name	Last name	Delete	Change
Filter...	Filter...	Filter...	Filter...	Filter...	Filter...
Admins (1 item)					
atmosadmin				<input type="checkbox"/>	<input type="checkbox"/>
User (1 item)					
user				<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4

First Prev 1 Next Last

Change user data
✕

5

User ID

Users

Title



First name

Last name

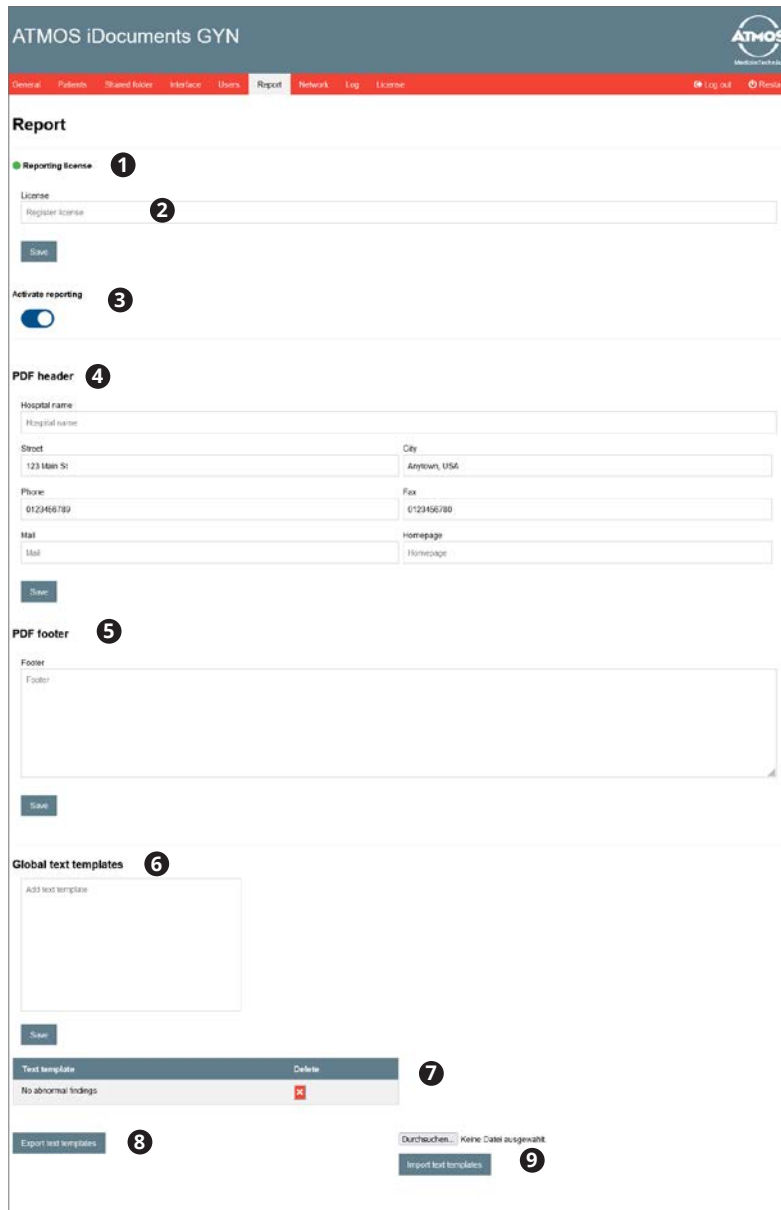
Change password

New password

Repeat password

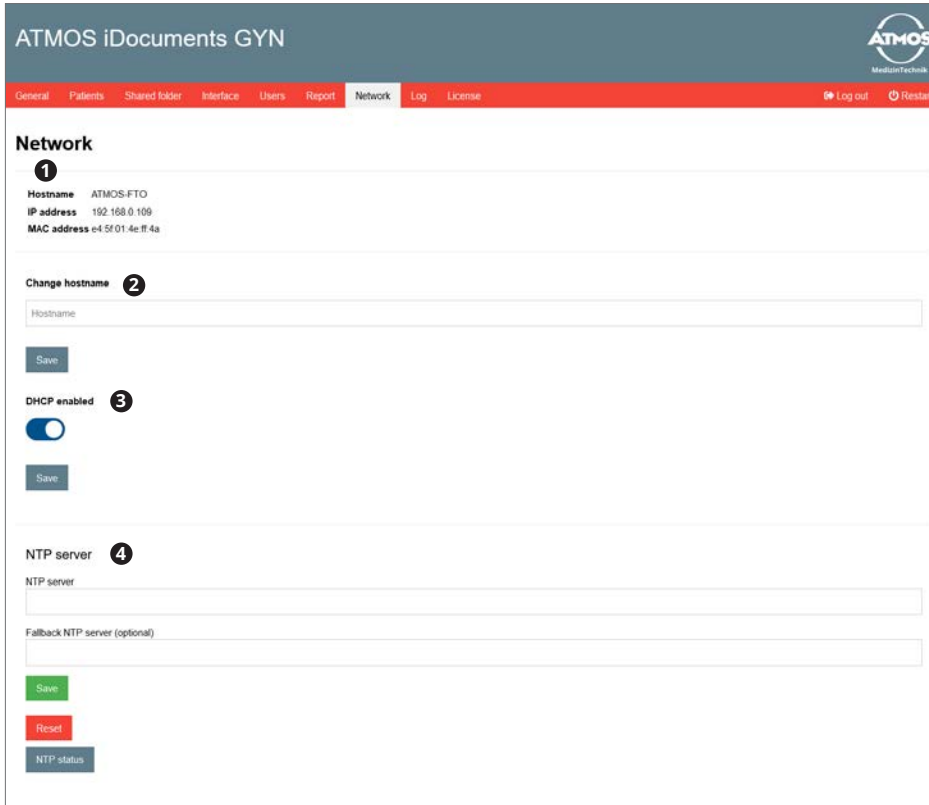
1	A new user for the software can be created here. The role as a user or administrator can be selected here. When the fields for title, first name and last name are filled in, this information will also be printed on the report.
2	Setting for the automatic user timeout. If this option is enabled, the user is automatically logged out of the software after the set minutes have elapsed.
3	Users can be deleted from the software by clicking on the symbol  .
4	Clicking on the symbol  opens a window for changing the user data.
5	User data and password can be changed here.

4.6 Report



①	This shows whether the license for reporting is activated.
②	The license key can be entered in this field.
③	Reporting can be enabled or disabled by pressing the switch.
④	The contact data of the practice/hospital can be entered here. This information is then printed in the header of the PDF report.
⑤	A footer can be entered here that will be printed at the end of the PDF report.
⑥	In this field, text templates can be defined that can be used for describing the images. These text templates are available to all users.
⑦	All defined text templates are displayed in this section. It is also possible to delete individual text templates.
⑧	Global text templates are exported to a file by clicking on this button.
⑨	Global text templates are imported from a file by clicking on this button.

4.7 Network settings



ATMOS iDocuments GYN

General Patients Shared folder Interface Users Report **Network** Log License Log out Restart

Network

1
Hostname ATMOS-FTO
IP address 192.168.0.109
MAC address e4:5f:01:4e:ff:4a

Change hostname 2
 Hostname
 Save

DHCP enabled 3

 Save

NTP server 4
 NTP server
 Fallback NTP server (optional)
 Save
 Reset
 NTP status

1	The current hostname, IP address, and MAC address are displayed here.
2	The hostname can be changed here.
3	When this option is enabled, the IP address is obtained via DHCP. If DHCP is disabled, a static IP address can be set by entering the IP address, gateway, and prefix.
4	NTP server setting: If the system time deviates from the actual time, an NTP server can be entered here to synchronize the time. The system must then be restarted.

4.8 Log

ATMOS iDocuments GYN ATMOS
MedizinTechnik

General Patients Shared kaber Interface Users Report Network **Log** License Log out Restart

Log ①

Refresh

Time	Level	Label	Message
2022-11-07T08:26:34.873Z	info	application	WebButtonsFootswitch: NOT connected (0W24)
2022-11-07T08:26:34.756Z	info	application	Application successfully started
2022-11-07T08:26:34.734Z	warn	application	ECHO Grabber NOT connected: TypeError: cannot open device with vendor id 0c295 and product id 0f6
2022-11-07T08:26:31.338Z	info	application	Connected to User DB

Download First Prev 1 Next Last

User log ②

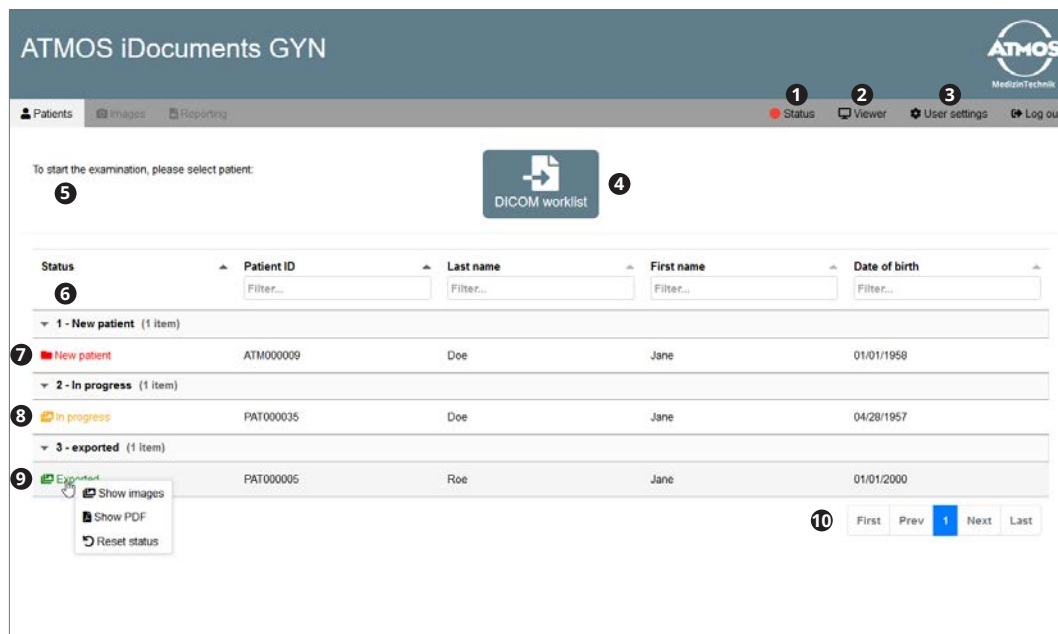
Time	Level	Label	Message
2022-11-07T08:33:36.694Z	info	user	'atmosadmin' (Admin) logged in
2022-11-07T08:33:32.597Z	info	user	'user' (User) logged out
2022-11-07T08:32:37.647Z	info	user	'user' (User) logged in
2022-11-07T08:32:33.293Z	info	user	'atmosadmin' (Admin) logged out
2022-11-07T08:32:22.398Z	info	user	'atmosadmin' (Admin) logged in

Download First Prev 1 Next Last

- ① The application and interface logs are displayed here. These can be filtered in the table. The log files can also be downloaded by clicking the "Download" button.
- ② If this setting is enabled, user activities can also be logged. All activities that the user undertakes and the patient involved are logged.

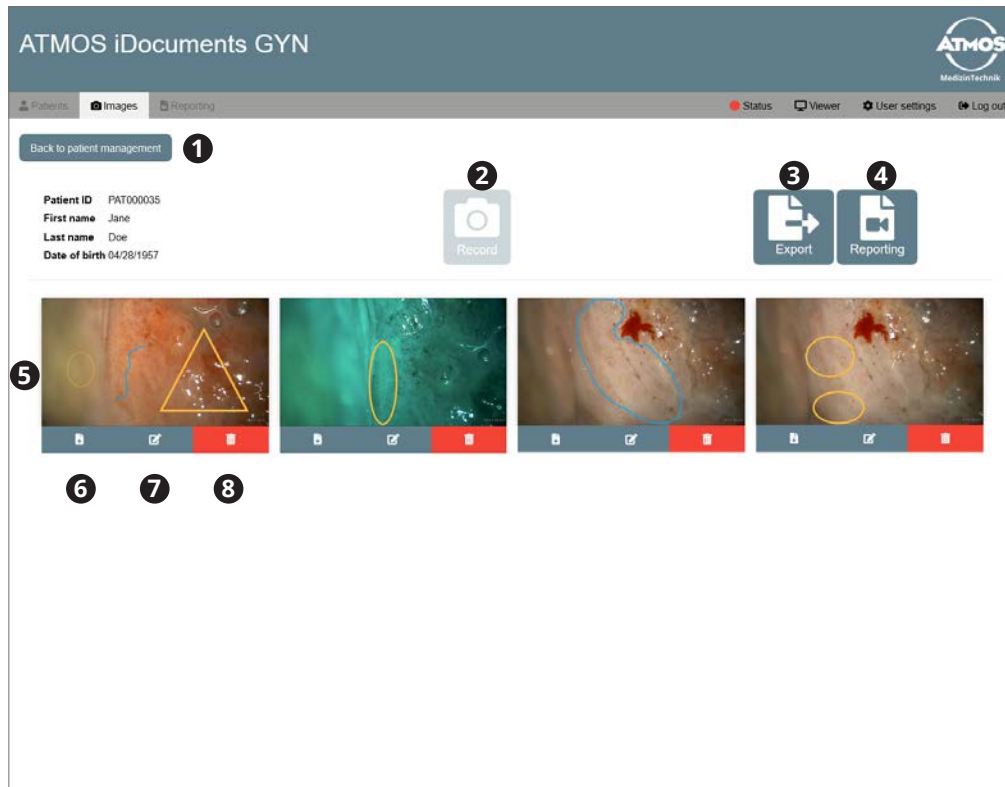
5 User area

5.1 Patients



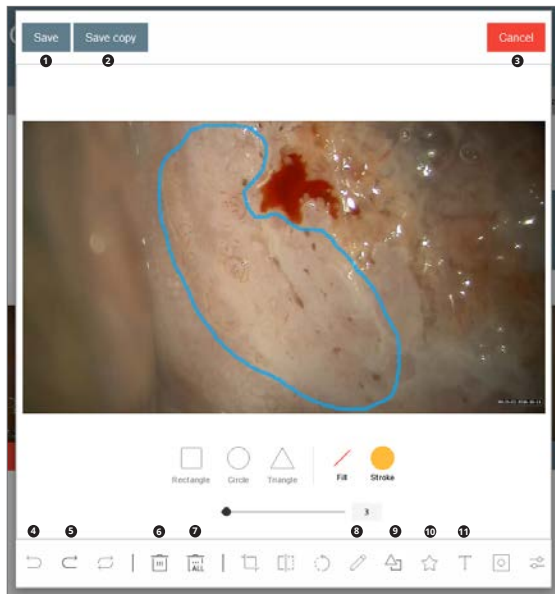
1	This button displays the system status. This drop-down menu shows whether the DICOM worklist and export connection are active and whether the ATMOS i View COLPO and a foot switch are connected. The software version is also displayed here.
2	This button opens the viewer page; see chapter “7 Viewer” on page 26.
3	This button opens the page for user settings; see chapter “6.1 Presentation” on page 24.
4	This button is used to query the DICOM worklist. If there is no connection to the worklist server, this field is disabled.
5	This table displays all patients whose patient data have been loaded into the software. The patient data are sorted according to the status “New patient,” “In progress,” and “Exported.”
6	The patient table can be filtered here.
7	In the section called “New patient,” all patients are displayed for whom a recording has not yet been made. Left-clicking on the patient name will take you to the page for recording images.
8	In the section called “In progress,” all patients are displayed for whom at least one recording has been taken or the report was started but no export has yet taken place. Left-clicking on the patient name will take you to the page for recording images. Right-clicking on the patient name allows you to view the images already recorded.
9	In the section called “Exported,” all patients are displayed for whom the export has taken place. Right-clicking on the patient name allows you to view the images already recorded and the PDF report and to reset the status to “In progress.”
10	If patient data for more than 35 patients are in the software, you can navigate between the individual pages in this area.

5.2 Image recording



1	Navigates back to patient management
2	Records an image. Recording can also be performed using the foot switch or the control panel buttons on the ATMOS i View COLPO. If the status shows that the ATMOS i View COLPO is not connected, no recordings can be made.
3	Here, the images can be exported directly via DICOM. Afterwards, it is not possible to create a report and no further recordings can be made.
4	If reporting is activated, this button can be used to navigate to the "Reporting" section.
5	This area displays all images that have been recorded for the patient.
6	Downloads the recording to a local directory
7	Opens the image editor; see chapter "5.2.1 Image editor" on page 21.
8	Deletes the recording

5.2.1 Image editor



❶	Saves the image. The original image is no longer available.
❷	Saves a copy of the image.
❸	Closes the image editor. The changes are not saved.
❹	Undoes the last change.
❺	Redoes the last change.
❻	Deletes the selected element. The element must be marked beforehand.
❼	Deletes all elements.
❽	Allows freehand drawing on the image.
❾	Inserts a shape.
❿	Inserts an icon.
⓫	Inserts a text.

5.3 Reporting

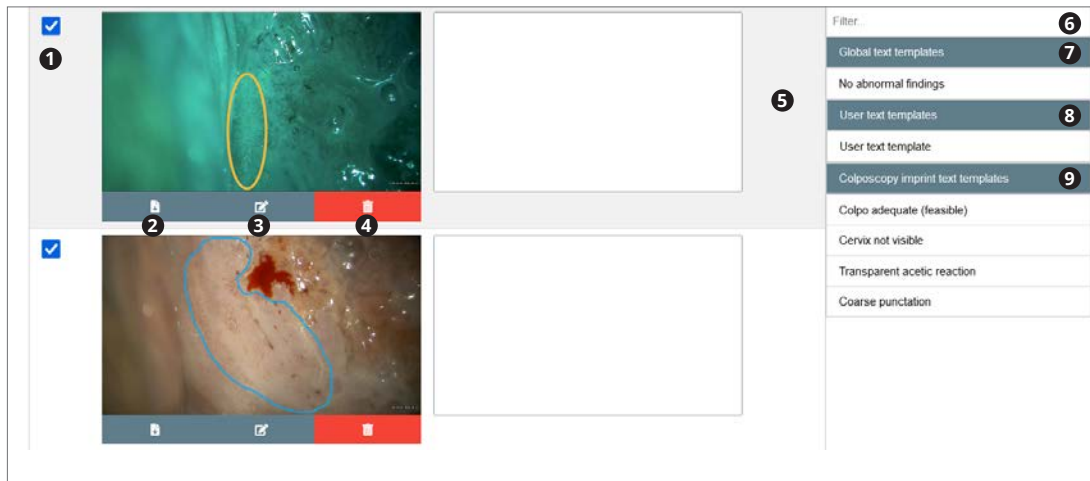
5.3.1 Colposcopy imprint

Colpo inadequate bc.: (not feasible)	Inflammation	Bleeding	Other: <input type="text"/>		Colpo adequate (feasible)
Cervix not visible	TZ 1 (TZ completely visible, completely ectoc.)	TZ 2 (TZ completely visible, endoc. share)	TZ 3 (TZ not completely visible, endoc.)		Colposcopic, not or only limited assessable
SCJ: <input type="text"/>	Compl. visible		Partially visible	Not visible	
Orig. squamous epithelium	Columnar epithelium	Atrophy	Deciduousis	Nabothian cysts	Normal colposcopic findings
Transparent acetic reaction				Crypt (gland) openings	
Inside the T-zone	Outside the T-zone	Number of quadrants <input type="text"/>	Percentage of cervix (%) 25 <input type="text"/>	Clock position <input type="text"/>	
Condyloma	Inflammation	Polyp	Stenosis		Miscellaneous
Congenital anomalies	Endometriosis	Post treatment consequence			
aceto-white epithelium	Fine punctuation	Fine mosaic			Minor changes
Dense aceto-white epithelium	Coarse punctuation	Coarse mosaic	Rapid appearance of acetowhitening	Sharp border	Major changes
Ridge sign	Inner border sign	Cuffed crypt (gland) openings			
Keratosi	Erosion	Lugol's staining: <input type="text"/>			Non specific
Level diff.	Atypical vessels	Additional signs: <input type="text"/>			Suspicious for invasion

The colposcopy imprint is filled in by clicking on the fields. Doing so will activate or deactivate the fields. Entering values or free text activates the respective field.

5.3.2 Image reporting

Image reporting can be done either by entering free text or by dragging and dropping the text templates listed on the right.



1	Images can be deselected here so that they are not printed on the report.
2	Downloads the recording to a local directory.
3	Opens the image editor; see chapter “5.2.1 Image editor” on page 21.
4	Deletes the recording.
5	In this field, an image description can be entered as free text or by dragging and dropping the text templates listed on the right.
6	Text templates can be filtered here.
7	The global text templates set in the administrator settings are displayed here.
8	The user text templates set in the user settings are displayed here.
9	The activated fields from the colposcopy stamp are displayed here.

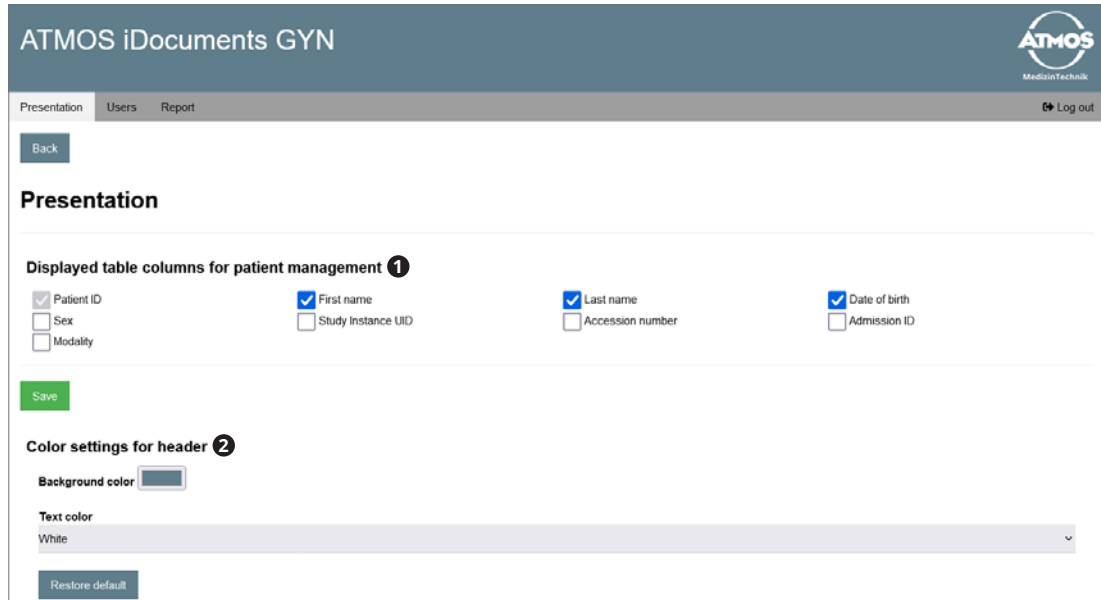
5.3.3 Finalizing the report



1	Field for entering a diagnosis.
2	Activates or deactivates the preview of the PDF report before the report is exported.
3	Activates or deactivates an additional export of the recordings as an image file.
4	Finalizes the report.

6 User settings

6.1 Presentation



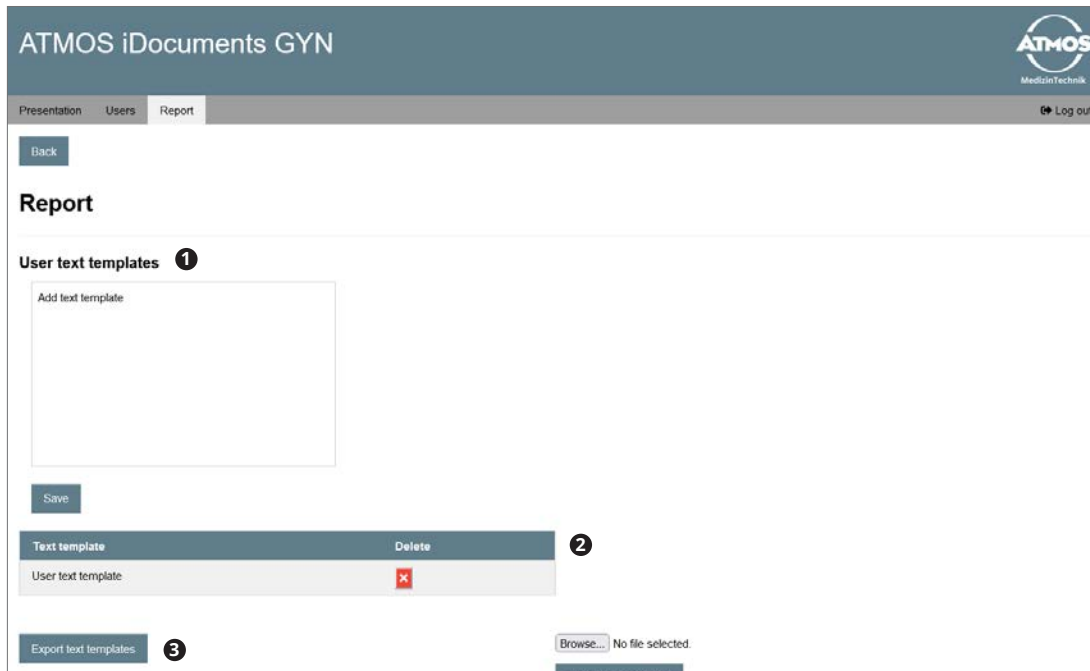
- | | |
|----------|--|
| 1 | Here you can set which table fields are to be displayed and which are to be hidden during patient management. |
| 2 | Color settings for the header on the user page. The changes are automatically saved when you make them. Clicking on the "Restore default" button will restore the original values. |

6.2 User



1	The user's data can be changed in this area. When the title, first name and last name fields are filled in, this information will also be printed on the PDF report.
2	The user's password can be changed here.

6.3 Report



1	In this field, text templates can be defined that can be used for describing the images contained in the report. These text templates are only available to the current user.
2	All of the user's text templates are displayed here. Individual text templates can be deleted.
3	The user's text templates can be exported and imported here.

7 Viewer

The viewer displays the images of the currently selected patient. If no patient is selected, the logo defined in the administrator area is displayed. When a new image is recorded or a recorded image is edited, the viewer is refreshed and the last recorded or edited image is displayed. By clicking on the "Back" button, the user returns to the patient management page.



8 Notes



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