DCMburner

Version 7.2.0

User Manual

Every window and every setting explained

For operators, administrators and resellers

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Contents

1. How to read this manual....4
2. Basic ideas....4
3. The main window....4
3.1 Toolbar....5
3.2 Browse....5
3.3 Viewer mouse and keys....6
3.4 Status lines....6
4. Getting studies into DCMburner....7
5. Query/Retrieve (Q/R)....7
5.1 Search....7
5.2 Retrieve....7
6. Filter (search the archive)....8
7. Burning a disc....8
7.1 By hand....8
7.2 Automatically....9
7.3 Following the job....10
7.4 The viewer on the disc....10
8. Export to a folder....11
9. The web pages in a browser....11
9.1 Opening the pages and signing in....11
9.2 Roles....12
9.3 The pages....12
9.4 Signing out and leaving....17
9.5 What only the DCMburner window can do....17
10. Setup: overview....17
10.1 DICOM receiver....18
10.2 Publisher....19
10.3 Media and spanning....20
10.4 Labels and discs....21
10.5 Encryption (protected discs)....21
10.6 Profiles....23
10.7 Additional....24
10.8 Web access....25
10.9 License....26

10.10 DICOM nodes....26
10.11 User management....27
11. Profiles in daily use....27
12. Publisher notes....27
12.1 Epson....27
12.2 Primera....27
12.3 Zeus (All Pro Solutions / PoINT)....27
12.4 Rimage....28
13. Maintenance....29
14. Problems and solutions....29

1. How to read this manual

This manual explains DCMburner step by step, as if you have never used the program. Words in **bold** are buttons, tabs or fields exactly as you see them on the screen. Boxes with **Tip**, **Note** and **Warning** give extra help. A yellow box **Not verified** marks something that could not be tested while writing.

Two kinds of people use DCMburner:

- **Operators** burn discs: chapters 3 to 9.
- **Administrators** install and set up the program: chapters 10 to 20.

2. Basic ideas

Word	Meaning
Study	One examination of one patient (for example a CT of the chest). It holds one or more **series**, each with **images**.
Archive	DCMburner's own storage of received studies (folder `images` in the data folder). Studies stay there for the time set in Setup.
Disc / patient disc	The CD, DVD or Blu-ray that the patient takes home. It has the images, a DICOMDIR and a viewer.
Publisher	The robot that loads, burns and prints discs: Epson, Primera, Zeus or Rimage.
Job	One order for the publisher. A burn job has a state: waiting, In-Process, Completed or Error.
AE title	The 'name' of a DICOM system on the network (up to 16 characters). Senders must know the AE title and port of DCMburner.
Profile	A set of disc settings (viewer, labels, DICOMDIR, automatic burning) that belongs to one AE title.
Node	Another DICOM system (PACS, modality) that DCMburner may ask for studies.

3. The main window

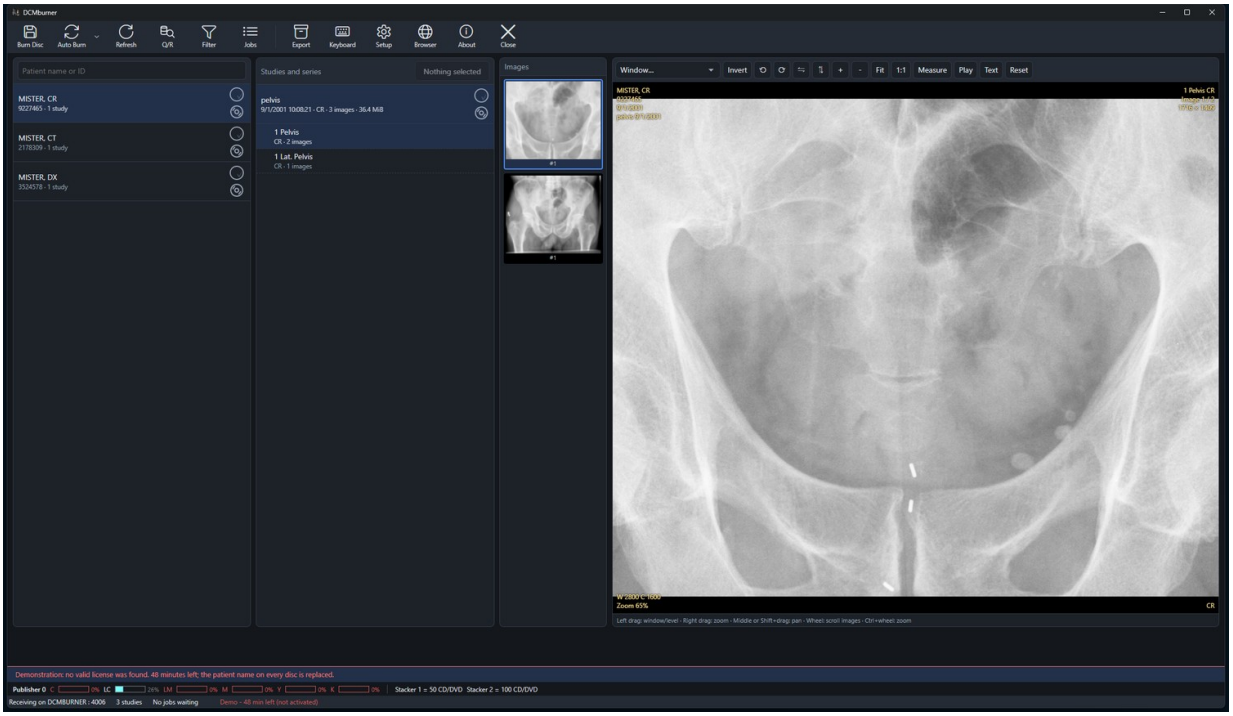


Figure 1. The main window in Browse mode

3.1 Toolbar

Button	Use
Burn Disc	Open the burn list with the selected studies and start burning. Greyed out while Filter, Q/R or Jobs is showing and nothing is selected.
Auto Burn	The button switches automatic burning on or off. The arrow next to it chooses which profiles burn automatically.
Refresh	Reloads the lists. Use it when a study just arrived.
Q/R	Query/Retrieve: fetch studies from another system.
Filter	Search the archive. Burning then works on the studies selected here. **Export is disabled while Filter is showing.**
Jobs	List of burn jobs, retrievals and imports.
Export	Write the ticked patients or studies to a folder.
Keyboard	On-screen keyboard for touch screens.
Setup	Settings (administrators).
Browser	Open the web pages in your normal browser.
About	Version, licence, data folder, log file, web address.
Close	Quit the program (asks what to do with open jobs).

Warning: The X in the title bar does not stop DCMburner. It asks: **Hide in the system tray**, **Exit DCMburner** or **Cancel**. In the system tray DCMburner keeps receiving and burning; each time the window is hidden a message appears at the bottom right for a few seconds: "DCMburner is still running in the background and receives images. Right-click the icon and choose Exit to quit." Double-click the DCMburner icon in the system tray to open the window again; right-click it for **Open DCMburner**, **Settings...** and **Exit**. Use **Close** in the main window or **Exit** in the tray menu to quit. If jobs are still open, the program asks: wait, delete the waiting jobs, or stay open.

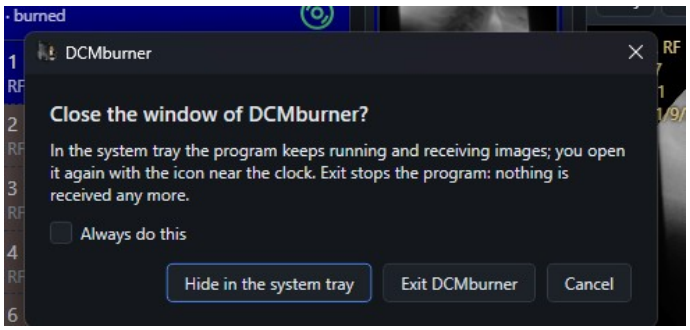


Figure 2. The question when you click the X of the window

Tick **Always do this** to keep the answer for your Windows user; the question then no longer appears. You can change the answer at any time in Setup > Additional > **Closing the window** (10.7). When Windows signs out or shuts down, the question is never asked.

3.2 Browse

Browse has four areas from left to right:

- **Patients**: type a name or ID in the box at the top to find a patient quickly.
- **Studies and series**: the studies of the chosen patient and their series.
- **Images**: thumbnails of the chosen series.
- **Viewer**: the image with tools (window/level, invert, rotate, flip, zoom, measure, play, text, reset).

Each patient and study row has two round icons at the right. The upper circle selects the row for burning; the lower disc icon shows the **burn state**:

Colour	Meaning
Grey	Not burned
Yellow	Busy (a job is running)
Green	Burned (seen after completed jobs)
Orange	Partly burned
Red	Error (seen after a job that ended in Error)

Coloured lines in front of rows come from the **profile colour** (Setup > Profiles).

The patients are listed with the **newest received on top**. When the last patient is deleted, or no patient is left, the images of the one that was shown are cleared too.

Delete from the archive (operator and administrator): point at a patient or a study and click the **x** at the right end of the row. After a confirmation the study (or the patient with all studies) is removed from the archive of DCMburner, with its DICOM files. Discs that were made are not affected. A study that is on a disc that is waiting or being made cannot be deleted: delete that job first (Jobs) or wait until it is finished.

In the DCMburner window the box of a study has a small solid **dot** before the text, between the coloured line and the text (point at it: **Viewer**). Click it to look at the study in the viewer of this computer (`DCMviewer.exe`, the same viewer as on the disc): it opens with the images of that study as they are in the archive. The viewer is taken from the copy in the settings folder of the data (`C:\ProgramData\sup-c\DCMburner\settings`), otherwise from the shared viewer folder (`C:\Users\Public\Documents\DCMburner\viewer\sup-c`). If it is in neither, or the study has no images in the archive, a message appears in the status bar. The dot is only in the DCMburner window, not in the pages in a browser on another computer: the viewer starts on the computer that holds the archive.

3.3 Viewer mouse and keys

Action	Result
Left-drag	Window/level (brightness and contrast)
Right-drag	Zoom
Middle button or Shift + drag	Move the image
Mouse wheel	Next / previous image
Ctrl + wheel	Zoom
Fit / 1:1	Fit the image in the window / show actual pixels
Measure	Measure a distance
Play	Play the images of a series as a movie
Window... list	DICOM window presets (for example 1600/2800) and Auto (min-max)

3.4 Status lines

- **Banner** (red): demonstration or licence message.
- **Publisher strip**: Epson shows ink levels (C, LC, LM, M, Y, K) and the discs in stacker 1 and 2. Primera shows the ink cartridges (red below 20 %, a single cartridge below 10 %), the discs in the left and right bin, and the robot error. Zeus problems appear as a notice at the bottom.
- **Last line**: receiver (AE title : port), number of studies, jobs open, Auto mode, licence (**License OK** or the reason), and then the **message line**: what the pages say (for example 3 job(s) sent to the publisher, for a few seconds, in red when something went wrong) and what the program has to say (a problem with the

receiver, the publisher or the certificate). The messages are in the status bar, so the pages above it do not move.

- **Receiving**: while images come in (from the receiver, the watch folder, an import or a retrieval) a small moving picture appears at the right end of the status bar (lines with dots flowing to a disc). It stays a few seconds after the last image. Point at it to read **Images are coming in**.



Figure 3. Status lines with an Epson robot (simulator): ink levels in colour, stackers, receiver and licence

4. Getting studies into DCMburner

There are four ways:

Way	How	Where described
Sent by a modality or PACS	The sender stores to the AE title and port of DCMburner (C-STORE).	Chapter 10 (receiver)
Fetched with Q/R	You ask a PACS for studies.	Chapter 5
Watch folder	Copy DICOM files into `C:\Users\Public\Documents\DCMburner\watchfolder`. They are imported and removed from the folder.	Chapter 10
Import a folder	Setup > Additional: import DICOM files from a folder (with sub-folders if you want).	Chapter 16

5. Query/Retrieve (Q/R)

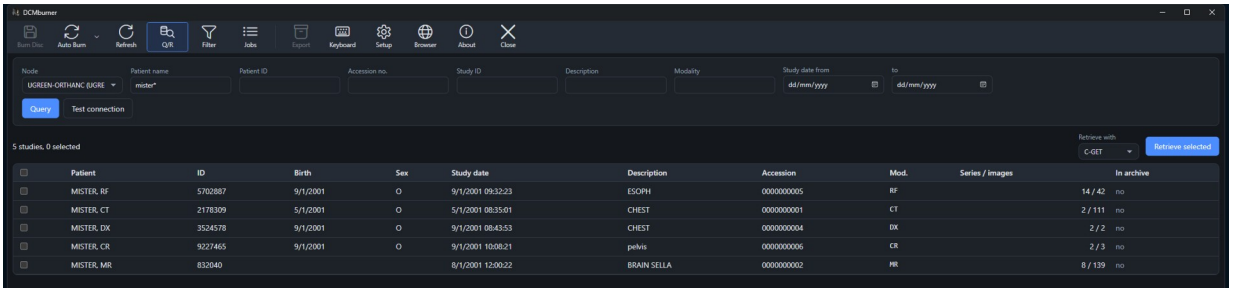


Figure 4. Q/R with the result list

5.1 Search

1. Click **Q/R**.
2. Choose the **Node** (set up in Setup > DICOM nodes).
3. Fill one or more fields: **Patient name**, **Patient ID**, **Accession no.**, **Study ID**, **Description**, **Modality**, **Study date** from/to.
4. Click **Query**. **Test connection** checks the link first.

Names and descriptions are searched as 'contains' unless you type a * or ? yourself. Dates are written as dd/mm/yyyy in the boxes.

5.2 Retrieve

1. Tick the studies. The column **In archive** says **complete** (every image is here), a number such as **2 images** (only part of the study is here) or **no** (you do not have it yet).

2. Choose **Retrieve with**: **node default**, **C-MOVE** or **C-GET**.
3. Click **Retrieve selected**. Open **Jobs** to follow the **Retrievals** table.

Method	How it works	Needs
C-MOVE	The PACS sends the images to the DCMburner receiver.	The PACS must know DCMburner: AE title, IP address and port 4006.
C-GET	The PACS sends the images back over the same connection.	The PACS must support C-GET. No change in the PACS.

Tip: If a retrieval fails with "C-MOVE ended with Failure [c000: Cannot understand]. The node must know our AE title", either register DCMburner in the PACS or switch the node to C-GET.

6. Filter (search the archive)

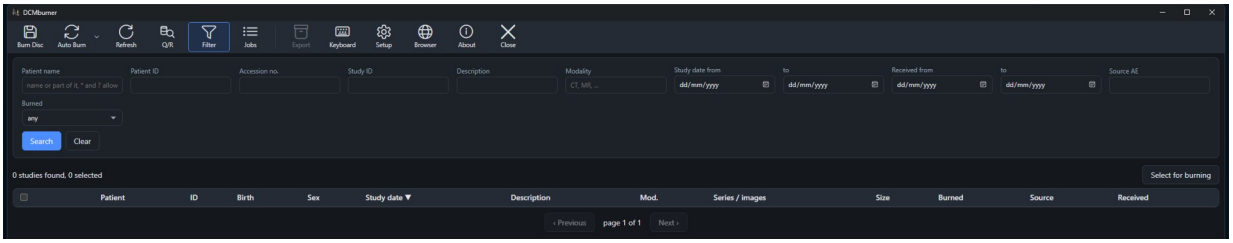


Figure 5. Filter

Use **Filter** to find studies already in the archive: **Patient name**, **Patient ID**, **Accession no.**, **Study ID**, **Description**, **Modality**, **Study date** and **Received** date ranges, **Source AE** and **Burned** (any, yes, no).

1. Fill in what you know and click **Search** (**Clear** empties the form).
2. Tick studies in the list, or the box at the top of the column for all.
3. Click **Select for burning** and then **Burn Disc**.

The list can be sorted by clicking a column title and has pages (**Previous** / **Next**). The column **Burned** shows if a study was already burned and **Source** the AE title that sent it.

7. Burning a disc

7.1 By hand

1. Select patients or studies (Browse circles or Filter).
2. Click **Burn Disc**: the **burn list** opens.
3. Check the list; click ✕ to remove a row or **Empty list** to start over.
4. Click **Calculate size**. The size includes images, viewer, DICOMDIR and a reserve, and tells how many discs and of which type are needed.
5. Set **Copies**. For more than one patient choose **on one disc set** or *'separate discs per patient'*.
6. Click **Burn**.

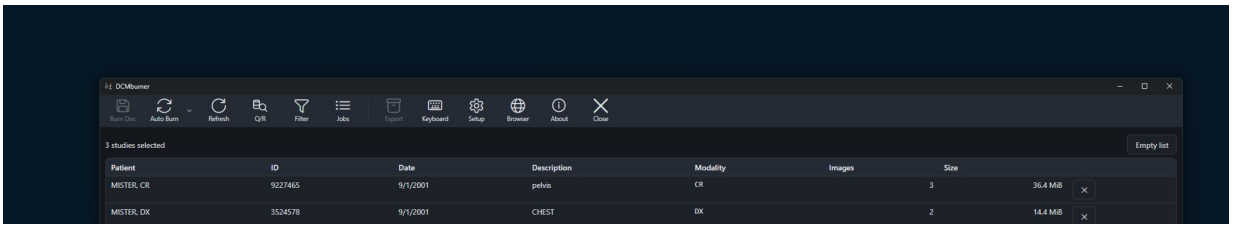


Figure 6. The burn list

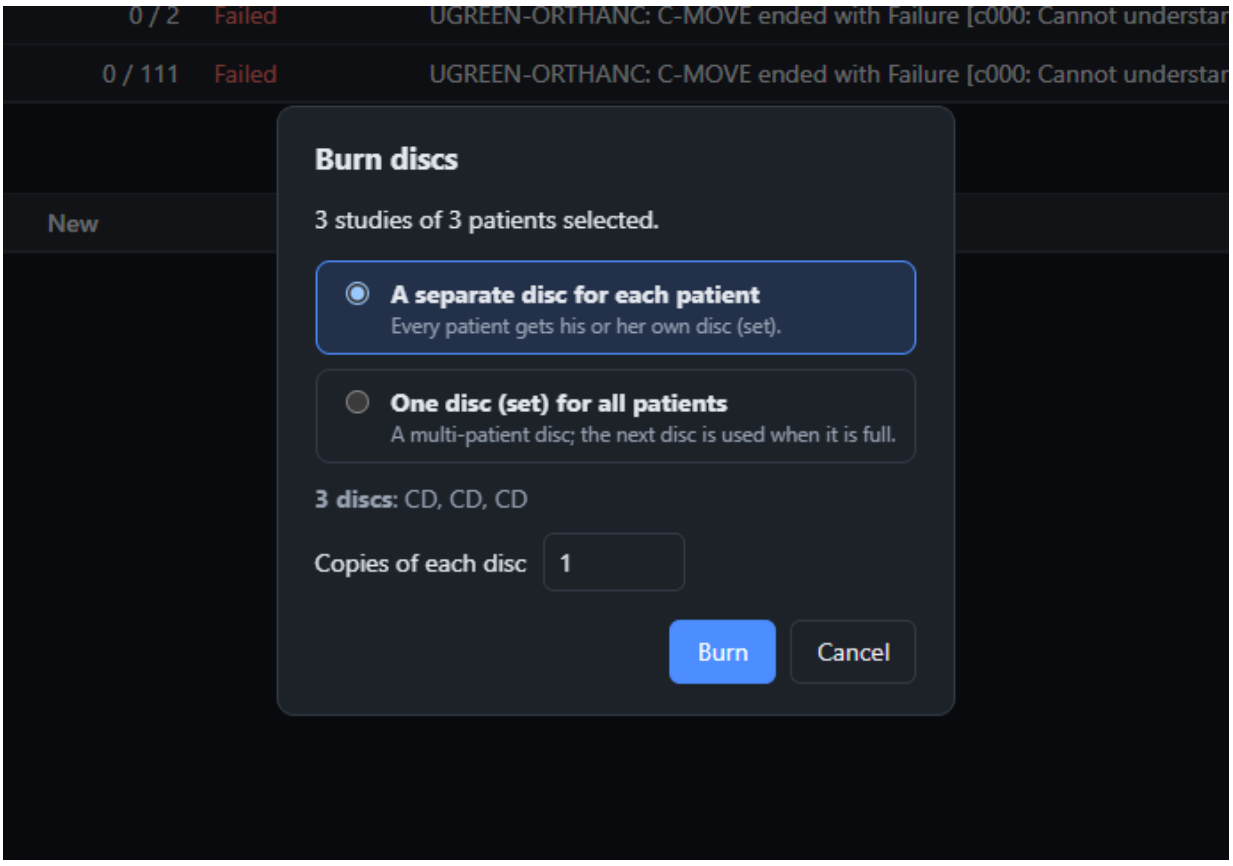


Figure 7. Question for several patients

Note: When the data does not fit on one disc, DCMburner spreads it over more discs or goes to the next larger disc type, as set in Setup > Media and spanning.

After **Burn** the discs are first copied to the job folder (viewer, DICOM files, DICOMDIR). For a large selection that takes minutes (about 25 seconds for four DVDs of 4.4 GB on a fast disk), so a window **Preparing the discs** shows which disc is being made and how many files are copied. **Cancel** stops it: the discs that were ready are taken back and nothing is sent to the publisher. When the page is reloaded the window comes back. Only one selection is prepared at a time. Before the first file is copied DCMburner checks that the drive of the job folder has room for all discs together (and for encrypted discs for the largest disc twice); when it has not, you get a message with the needed and the free space. When a later disc fails, the discs that were ready of the same selection are taken back, so that no incomplete set is burned; the disc that failed stays in the Jobs list with its error.

7.2 Automatically

Switch **Auto Burn** on. Studies of profiles that have **Burn automatically** are burned when no new images came in for the quiet period (default 20 seconds, Setup > DICOM receiver: **Incoming study time-out**, and **AutoBurnWaitSeconds**).

7.3 Following the job

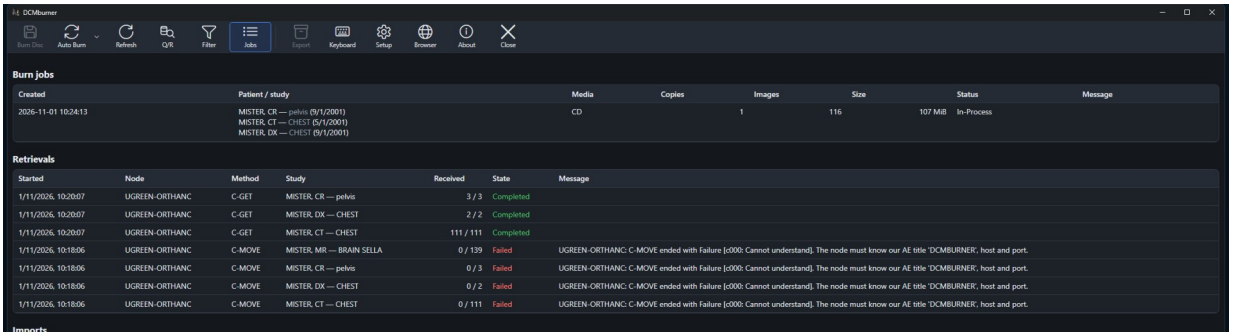


Figure 8. Jobs

State	Meaning
In-Process	The publisher is working on it.
Completed	The disc was written and printed.
Error	Something failed; the message tells what. Use **Retry** after you fixed it (for example blank discs or ink).

Retrievals show the state of Q/R downloads and **Imports** the state of folder imports.

7.4 The viewer on the disc

Every disc carries a viewer, so the patient or the doctor can look at the images without installing anything. The standard viewer is **Sup-C DCMviewer** (`DCMviewer.exe`). It is signed (publisher Cleys, Patrick), needs no installation, no administrator rights and no extra Windows components, and it runs from a CD, DVD or USB stick that cannot be written to.

- **Starting**: on Windows the disc starts the viewer by itself (AUTORUN.INF). If Windows does not start it, double-click `DCMviewer.exe` or `START_VIEWER.BAT` on the disc. The viewer looks for the images in its own folder and the folders above it; nobody has to choose a folder. If it finds nothing, it asks for a folder (**Open folder...**).
- **What it shows**: patients, studies and series in a list on the left, the images in one to sixteen frames on the right. Images of a series are in the order of their position, not only of their numbers. Text on the image tells patient, study, series, image number, window/level, zoom and the value under the pointer.
- **Handling**: mouse wheel = next / previous image, **left-drag** = brightness and contrast (window/level), **right-drag** or middle button = move, **Ctrl + wheel** = zoom, double-click = fit. Buttons: Fit, 1:1, Reset, Invert and the CT presets brain, soft tissue, lung and bone.
- **Other objects**: PDF reports, structured reports, ECG curves and video are opened with the program of Windows for that kind of file.
- **Safe**: the viewer only reads; it writes no settings, logs or copies. A file that cannot be read is listed under **Problems** and does not stop the others.
- The window title and the status bar say **For image review only, not a certified diagnostic workstation**.

Compression on the disc	Shown by the viewer
Uncompressed, deflated, big endian	Yes
JPEG Baseline and Extended (8 bit), JPEG Lossless	Yes
JPEG-LS (lossless and near-lossless), JPEG 2000, RLE	Yes
JPEG Extended 12 bit, RLE with 32-bit samples, High-Throughput JPEG 2000, JPEG XL	No: the viewer says so for that image
MPEG-2, MPEG-4 AVC (H.264), HEVC video	Opened in the video player of Windows

The viewer warns **LOSSY COMPRESSED** on images that were compressed with loss. The complete list, with every SOP class and the display rules, is in the DICOM Conformance Statement and Help of the viewer (`Sup-C_DCMviewer_DICOM_Conformance_Statement_and_Help.pdf`). A PDF that you put in the viewer folder is copied to every disc together with the viewer.

Warning: The viewer draws with OpenGL 2.0 or newer. A computer that has only the basic Windows display driver (for example a new virtual machine without guest tools or 3D acceleration) cannot start it; it then shows a message with the reason. Install the graphics driver.

Note: Windows SmartScreen can still ask about a file it has not seen often, although the viewer is signed: choose **More info**, then **Run anyway**, or right-click the file > Properties > **Unblock**. Files that come from a network share count as downloaded.

Note: The viewer does not read the DICOMDIR; it scans the DICOM files themselves. The DICOMDIR on the disc is for other viewers and systems. Mac and Linux viewers are not on the disc (a Mac user installs Horos, free, and opens the disc there; OsiriX works as well).

Not verified: The viewer was tested with discs made by the DCMburner simulators and with a read-only mount. Start-up from a real burned disc in a real drive, and the answer of Windows (autorun, SmartScreen) on other computers, were not tried for this manual.

8. Export to a folder

Export writes the ticked patients or studies exactly like a disc (viewer, DICOM files, DICOMDIR; protected like a burned disc) to a folder you choose. Use it for USB sticks or network shares. Export is disabled while **Filter** is showing.

Tick **Anonymize** in the export window to write the files without the identity of the patient (for teaching, research or a second opinion). The patient name becomes ANONYMOUS and the patient ID ANON-001, ANON-002 and so on; birth date, other IDs and names, address, institution, physicians, operators, accession number, study ID and all private attributes are removed; the UIDs of study, series and image are replaced, the same everywhere, so the studies stay together; the folder is named Anonymous 1, 2 and so on. **Not changed**: text that is part of the image itself (burned in) and the text inside reports (SR) and documents (PDF); look at these before you pass the files on. The dates and times of the study are kept, so that studies can be told apart. Anonymizing is not possible together with protection by birth date (one patient): set a master password or switch protection off. Anonymizing is available in the export to a folder, not (yet) for a disc: the label and the job list of a disc carry the name.

9. The web pages in a browser

The pages you see in the DCMburner window (Browse, Filter, Q/R, burn list and Jobs) are web pages of DCMburner itself. You can open the same pages in the browser of any computer, so a colleague can look at images, search, retrieve and burn from their own desk. The screenshots in this chapter were made with Chrome. Some tasks exist only in the DCMburner window (see 9.5).

9.1 Opening the pages and signing in

- **On the DCMburner computer**: click **Browser** in the toolbar. The pages open in your normal browser.

- **On another computer**: type `https://<name or IP address of the DCMburner computer>:8088`, for example `https://pacs-pc:8088`. This works only when **Allow other computers** is on (Setup > Web access) and the Windows firewall lets port 8088 through (the installer has the task **Allow DCMburner through the Windows firewall**).
- The connection is always secure (https). The first time, the browser may warn about the certificate. The link **Does the browser warn about the certificate?** on the sign-in page explains what to do; the Installation Guide describes how to install the certificate on every computer so the warning does not come back.
- Sign in with a web user (Setup > User management, or the **Administration** page). The list below the button sets the language of the sign-in page.

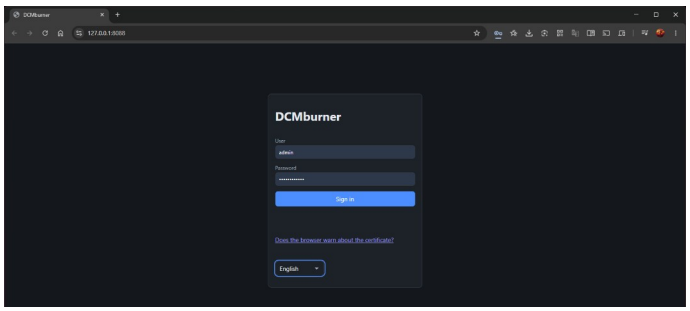


Figure 9. The sign-in page of the web pages

9.2 Roles

Each web user has one role. The role decides which pages and buttons the person sees.

Role	Pages and actions
viewer	Browse, Search, Burn list and Jobs: look at studies and images. Cannot burn, retrieve or change anything.
operator	Everything a viewer does, plus **Query / Retrieve**, the **Burn** button and **Retry** on a failed job.
operator without viewer	Like operator, but images are never shown: patients and studies are listed, the viewer and thumbnails stay empty (privacy). For a secretariat that only burns.
admin	Everything, plus the **Administration** page (remote nodes, import, users).

Note: The first administrator is called `admin`. The password was chosen at the first start of DCMburner; it cannot be looked up (see the FAQ).

9.3 The pages

The top bar has the pages, your name with your role, **Account** and **Sign out**. The number on **Burn list** is the number of studies in your list.

Browse

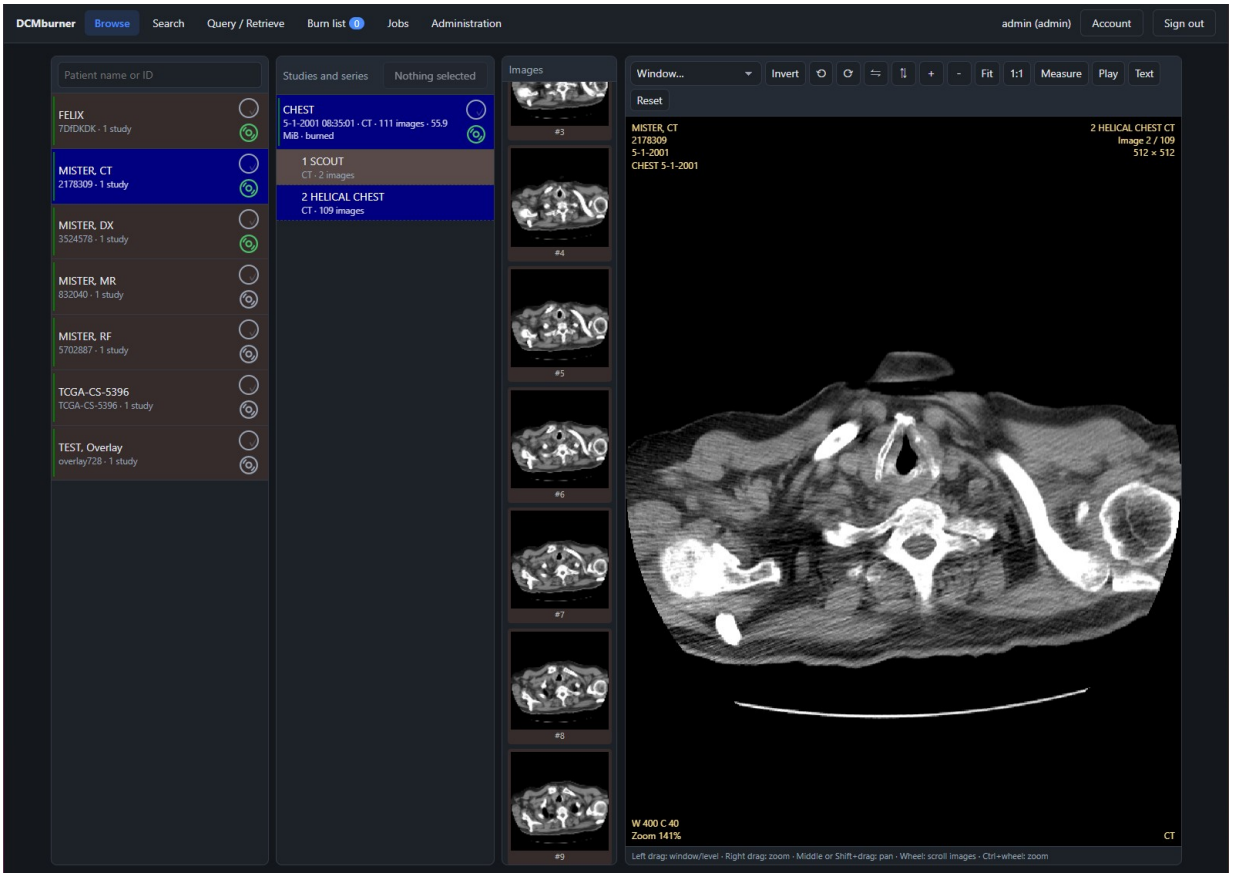


Figure 10. Browse: patients, studies and series, images and the viewer (a CT series is open)

Browse is the same page as in 3.2: patients, studies and series, thumbnails and the viewer, with the same mouse and key actions (3.3). Tick the circle of a patient or a study to put it on your burn list. The disc symbol shows the burn state; point at it to read it: **Not burned**, **Burned**, **Partly burned**, **Waiting or busy burning** or **Error while burning**. A line under the viewer reminds you of the mouse actions.

Search

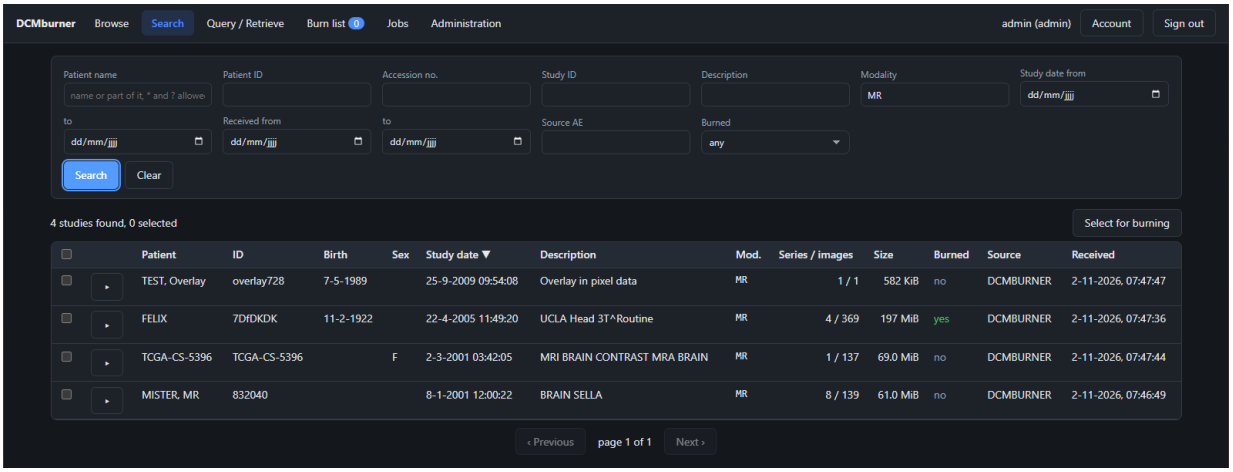


Figure 11. Search: studies that are already in the archive

Search is the page **Filter** of the DCMburner window (chapter 6): fill in what you know, click **Search**, tick the studies and click **Select for burning**. The arrow at the start of a row opens the series of the study. **Burned** tells if a study was burned before, **Source** which AE title sent it.

Query / Retrieve

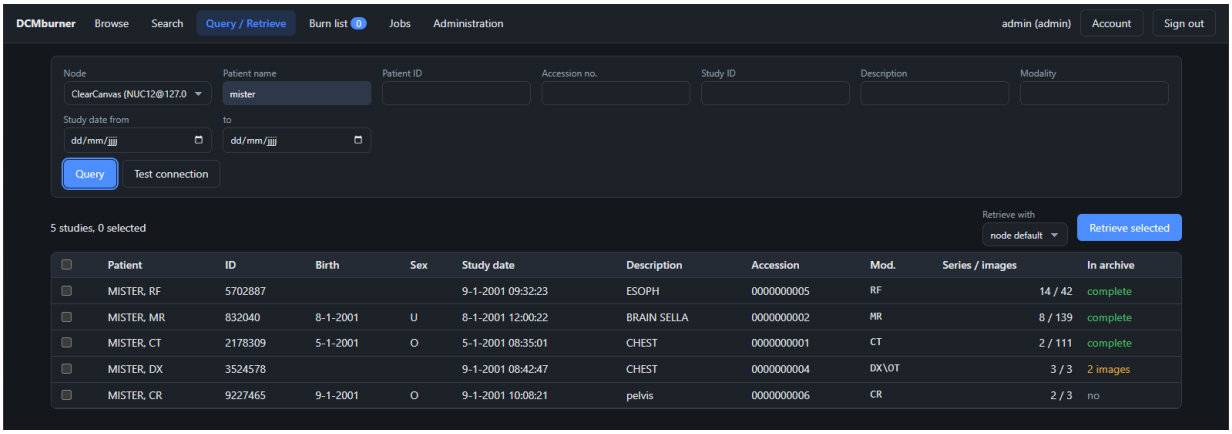


Figure 12. Query / Retrieve: the result of a query on another node

The page is the same as Q/R (chapter 5). Pick a **Node**, type what you search for and click **Query**; **Test connection** checks the link. Tick studies and click **Retrieve selected**; the studies arrive in the archive and the progress is shown on **Jobs**. The column **In archive** tells if you have the study already: **complete** (green), a number such as **2 images** (only part of the study is here) or **no**.

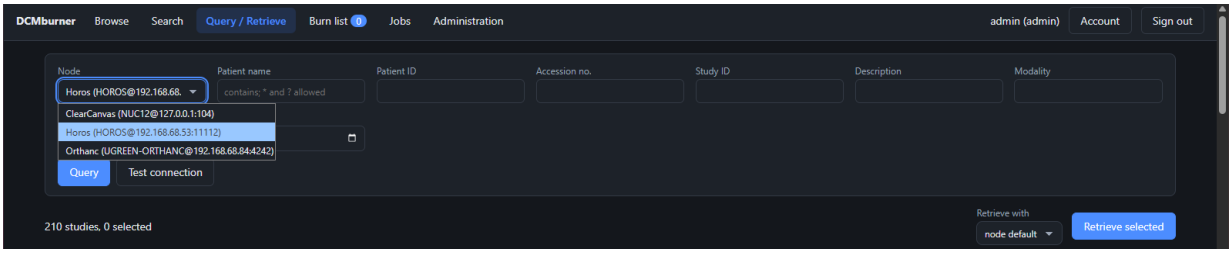


Figure 13. The list of nodes on the Query / Retrieve page

The list of nodes comes from the **Administration** page. Only nodes that are switched on (**Enabled**) are in the list.

Burn list

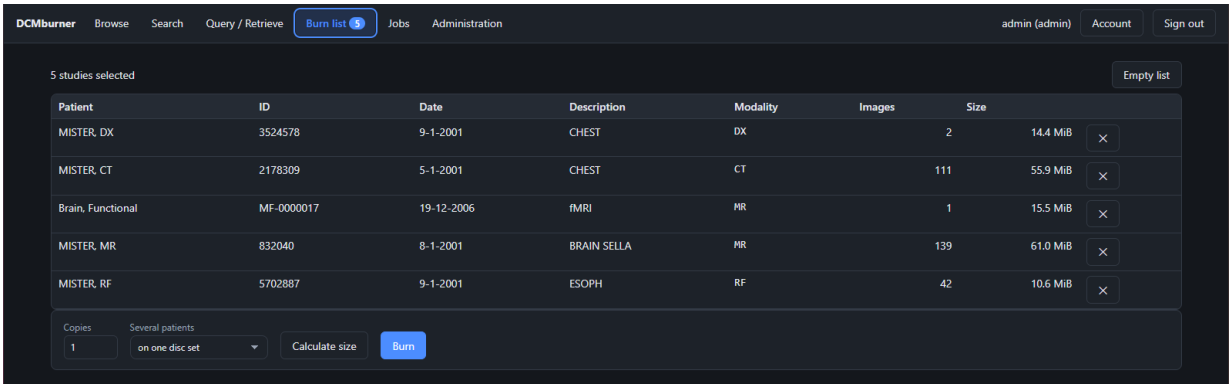


Figure 14. The burn list

The burn list holds the studies you ticked. Click ✕ to remove a study or **Empty list** to start over. **Calculate size** tells how many discs of which type are needed. Set **Copies** and, for more than one patient, **Several patients**: **on one disc set** or **separate discs per patient**. Click **Burn**.

The list is kept in the browser tab where you made it: it survives a refresh, but it is empty in another tab, for another user and in the DCMburner window.

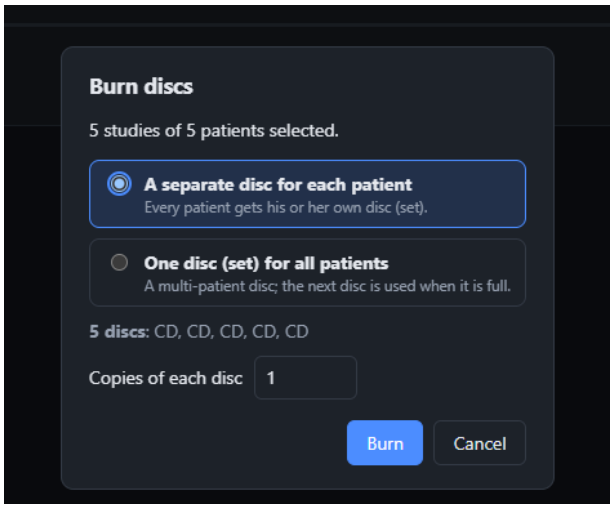


Figure 15. The question when the list has more than one patient

Jobs

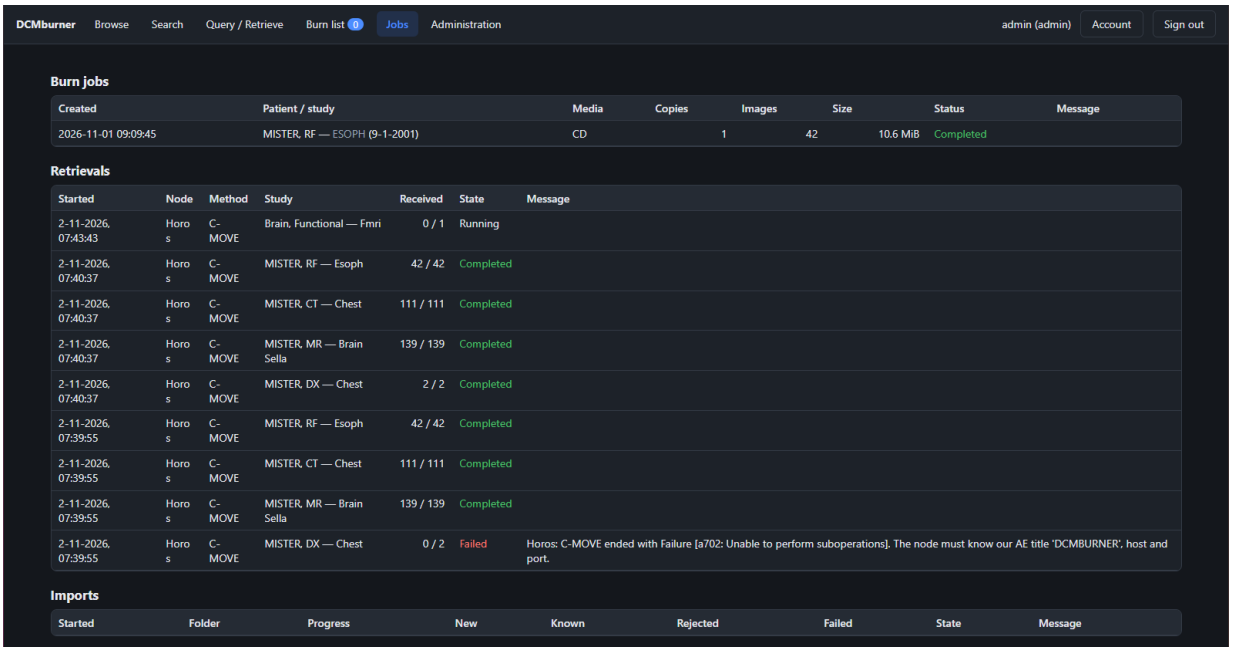


Figure 16. Jobs: burn jobs, retrievals and imports

Jobs has three tables and refreshes itself every few seconds:

- **Burn jobs**: time, patients and studies, media, copies, images, size, **Status** (In-Process, Completed, Error) and the message. A job that ended in Error has a **Retry** button for operators and administrators.
- **Retrievals**: the downloads you started on Query / Retrieve with node, method (C-MOVE or C-GET), received images out of expected images, state and message. A failed C-MOVE says that the node must know the AE title, host and port of DCMburner.
- **Imports**: folder imports (Administration page) with the number of new, known, rejected and failed files.

Administration (administrators)

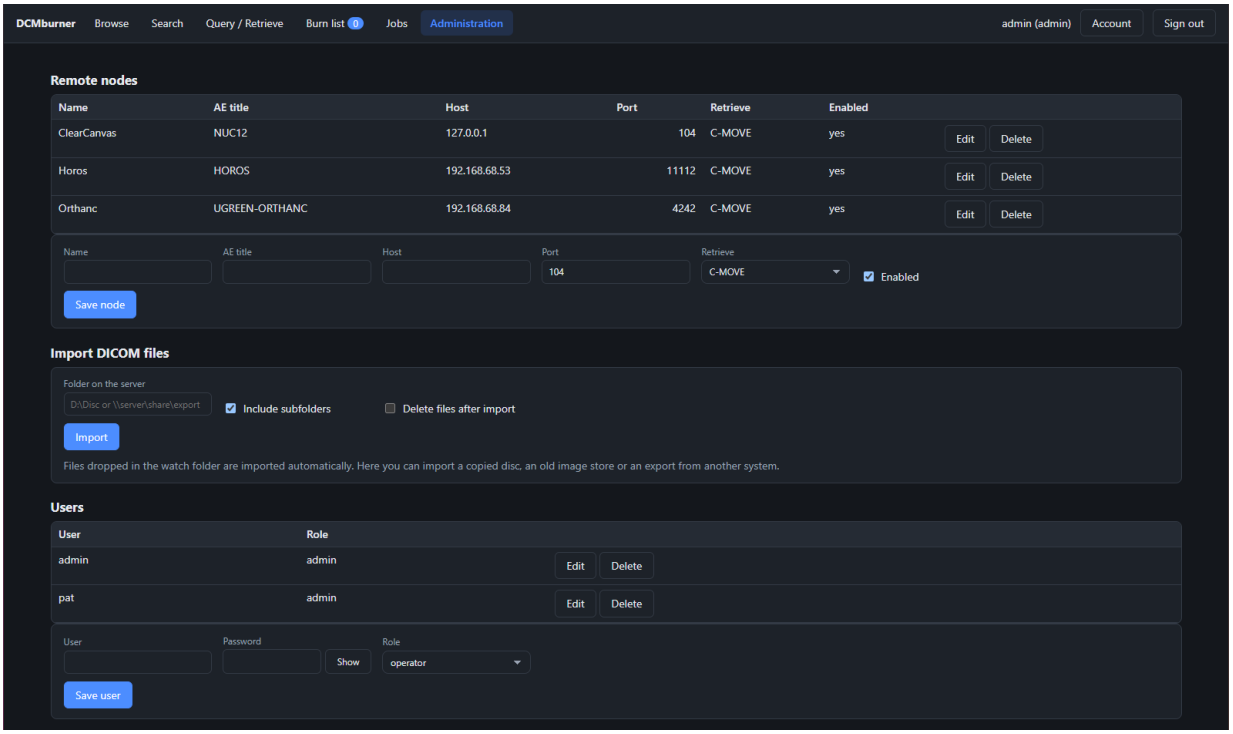


Figure 17. Administration: remote nodes, import and users

Part	What you can do
Remote nodes	The PACS and other systems DCMburner may query. **Name**, **AE title**, **Host**, **Port**, **Retrieve** (C-MOVE or C-GET) and **Enabled**. **Save node** adds or changes one; **Edit** and **Delete** are at the end of each row. The same list is in Setup > DICOM nodes.
Import DICOM files	Imports files from a **folder on the server**, that is the folder as the DCMburner computer sees it (for example `D:\Disc` or `\\server\share\export`), not a folder of the computer you are working on. Tick **Include subfolders** and, if you want, **Delete files after import**. Files that are dropped in the watch folder are imported by themselves. The progress is on **Jobs**.
Users	The web users: **User**, **Password** (**Show** reveals what you type) and **Role**. **Save user** adds one. **Edit** changes the role or sets a new password; a forgotten password cannot be read back, it is replaced by a new one. A password has at least 10 characters. The same list is in Setup > User management.

Account

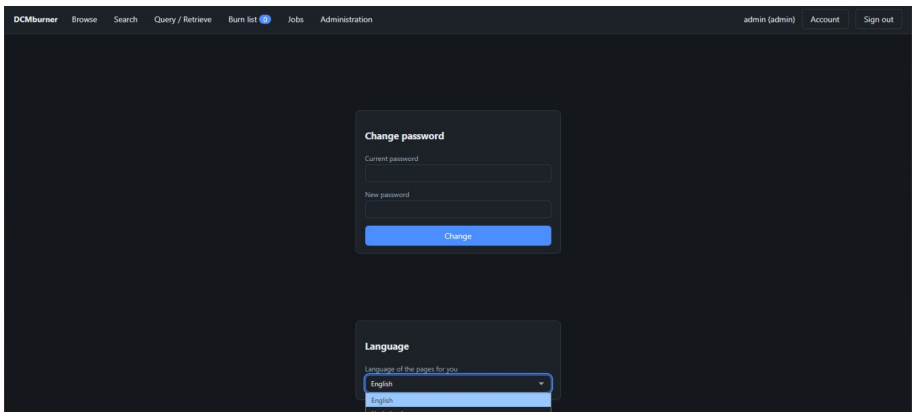


Figure 18. Account: change your password and choose your language

- **Change password**: type the current password and a new one (at least 10 characters), then click **Change**.
- **Language**: the language of the pages for you. All 18 languages of the program are available; Arabic is shown right-to-left. It is kept with your account, so you see the same language on every computer.

9.4 Signing out and leaving

Click **Sign out** when you leave a shared computer. Closing the browser tab does not affect DCMburner: the program keeps receiving and burning. The pages also work while the DCMburner window is hidden in the system tray; they stop only when DCMburner is closed with **Close** or **Exit**.

9.5 What only the DCMburner window can do

- **Setup** with every tab except nodes and users (receiver, publisher, media, labels, encryption, profiles, additional, web access, licence).
- **Export** to a folder and **Auto Burn**.
- The **status lines**: banner, publisher strip (ink and discs) and receiver status.
- The **About** window with the licence and the data folder.

Tip: If a colleague cannot open the pages: check that DCMburner runs on the computer (the icon near the clock), that **Allow other computers** is on, that the address starts with `https://` and ends with `:8088`, and that the firewall rule exists. The FAQ lists more.

10. Setup: overview

Setup is for administrators. It asks for the administrator sign-in (it stays open for 10 minutes). Press **Save all changes** to save every tab at once. If one tab has a mistake, nothing is saved and that tab shows a warning mark. **Cancel** throws away the changes.

The tabs: DICOM receiver, Publisher, Media and spanning, Labels and discs, Encryption, Profiles, Additional, Web access, License, DICOM nodes, User management.

10.1 DICOM receiver

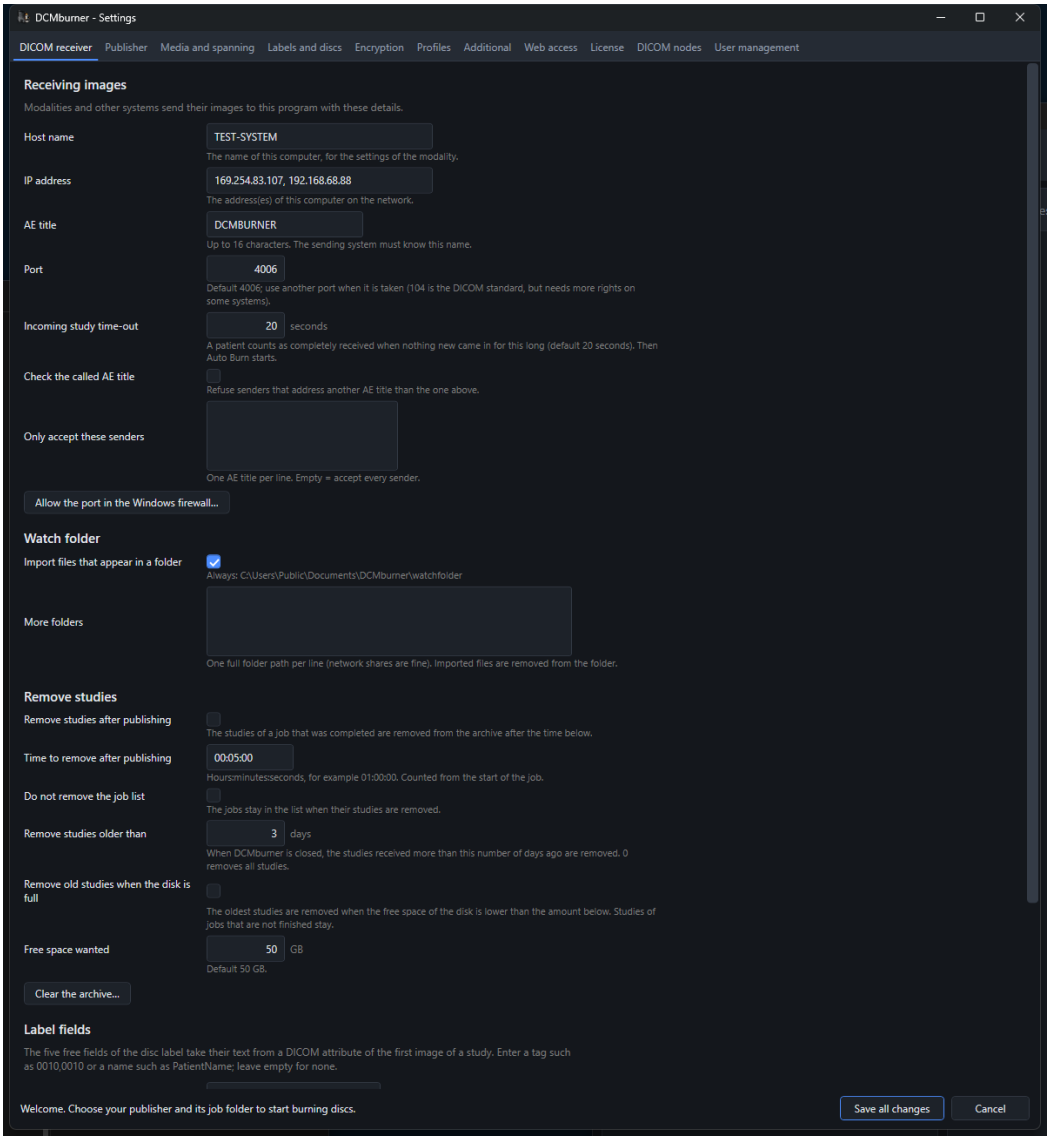


Figure 19. Setup > DICOM receiver

Field	Explanation
Host name / IP address	Shown for information. Give them to the people who set up the modality.
AE title	Name of the receiver, up to 16 characters. Default: computer name in capitals.
Port	Default **4006** (104 is the DICOM standard but needs more rights on some systems).
Incoming study time-out	A patient counts as completely received when nothing new came in for this many seconds (default 20). Then Auto Burn starts.
Check the called AE title	Refuse senders that address another AE title. Leave off to accept any (the profile then follows the AE title).
Only accept these senders	One AE title per line; empty means everybody.
Allow the port in the Windows firewall...	Adds the firewall rule.
Import files that appear in a folder / More folders	Watch folders. The default one is always watched; add network shares if you like.
Remove studies after publishing	Remove studies of a completed job after the time below (hh:mm:ss, default 00:05:00).
Do not remove the job list	Jobs stay in the list when their studies are removed.
Remove studies older than N days	When DCMburner is closed, studies older than N days (default 3) are removed. 0 removes all.

Remove old studies when the disk is full / Free space wanted	Oldest studies go first when free space falls below the amount (default 50 GB). Studies of unfinished jobs stay.
Clear the archive...	Removes all studies, images and jobs. Asks for confirmation.
Label fields (Free 1..5)	DICOM attributes for the five free fields on labels, as tag (0010,0010) or name (PatientName). Defaults: Manufacturer, Study Description, Series Description, Body Part Examined, Source AE title.

Warning: Studies are removed by the rules above. Burn first, or set the rules to your needs. The archive is a work area, not a long-term PACS.

10.2 Publisher

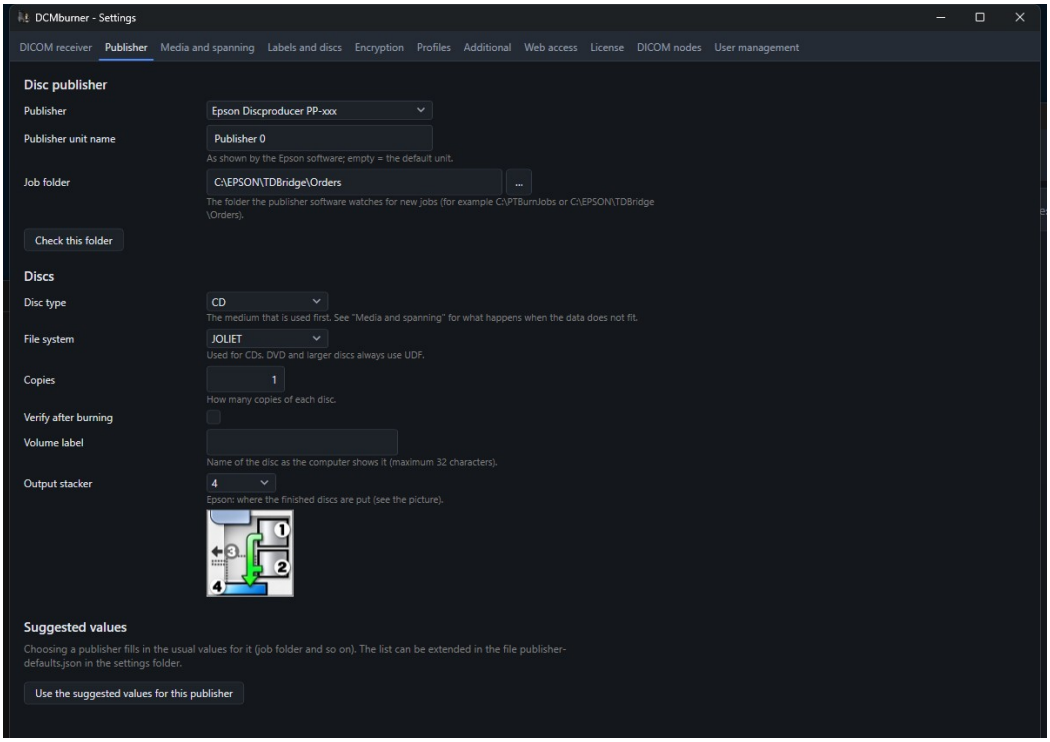


Figure 20. Setup > Publisher

Field	Explanation
Publisher	Epson Discproducer PP-xxx, Primera Bravo / Disc Publisher, All Pro Solutions (Zeus) or Rimage. Choosing fills in the usual values.
Publisher unit name	Epson: the unit name as TD Bridge shows it. Empty = the default unit.
Job folder	The folder the publisher software watches. Use **Check this folder**.
Location of CDsdk.exe (Zeus)	The PoINT software the Zeus path uses.
Rimage queue folder (Rimage)	The folder where DCMburner and the Rimage bridge meet: DCMburner puts jobs in `Queue`, the bridge writes the state in `Status`. The label templates go to its `Labels` folder. Must be the `RimageQueueRoot` of the bridge. For Rimage the **Job folder** is where DCMburner builds the disc content; the Rimage services must be able to read it.
Institution on the label (Rimage)	The name printed on the label for several patients (optional).
Prepare the Rimage folders and check the bridge (Rimage)	Makes the folders, copies the `.btw` templates and says whether the bridge service runs.
Disc type	The medium used first: CD, DVD, DVD dual layer, Blu-ray, Blu-ray dual layer.
File system	JOLIET, ISO9660L2 or UDF. For CD only; DVD and larger always use UDF.
Copies	Copies of every disc.
Verify after burning	Reads the disc back to check it.

Volume label	Name of the disc as Windows shows it (up to 32 characters). Empty = the program chooses.
Output stacker (Epson)	Where finished discs are put (1 to 4, see the picture).
Pick CD / DVD from (Primera)	Left or right bin. The two are opposite. 'Use standard settings' lets the robot choose.
Check discs in the bins (Primera)	Asks the robot to count its discs at start. Buttons **check disc bin** and **clean ink cartridge** are also here.
Burn speed	CD/DVD speed (Zeus has a maximum per medium).
Use the suggested values for this publisher	Fills in the standard values again.

10.3 Media and spanning

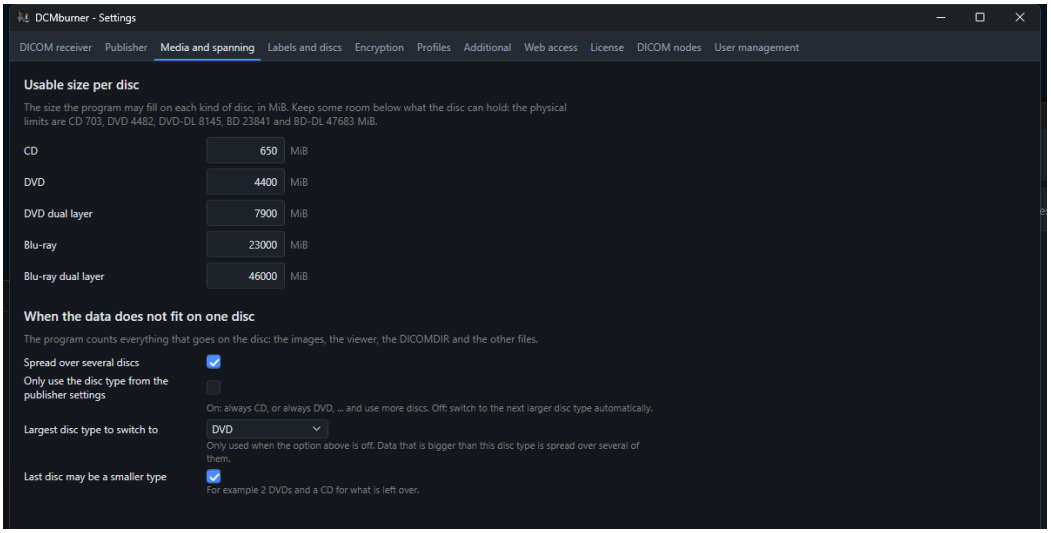


Figure 21. Setup > Media and spanning

Usable size per disc is how many MiB DCMburner may fill; keep some room below the physical limit (CD 703, DVD 4482, DVD-DL 8145, BD 23841, BD-DL 47683 MiB).

Option	Meaning
Spread over several discs	On: data that does not fit is split over more discs.
Only use the disc type from the publisher settings	On: always CD (or always DVD ...), more discs. Off: go to the next larger disc type automatically.
Largest disc type to switch to	Used when the option above is off.
Last disc may be a smaller type	For example 2 DVDs and a CD for what is left over.

10.4 Labels and discs

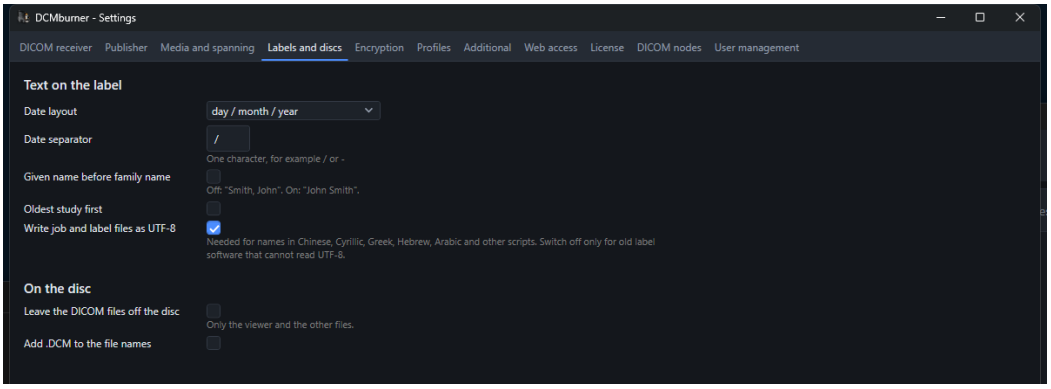


Figure 22. Setup > Labels and discs

Option	Meaning
Date layout / Date separator	How dates look on labels, for example day / month / year with /.
Given name before family name	Off: "Smith, John". On: "John Smith".
Oldest study first	Order of studies on a multi-study label.
Write job and label files as UTF-8	Needed for Chinese, Cyrillic, Greek, Hebrew, Arabic and other scripts. Switch off only for old label software.
Leave the DICOM files off the disc	Only the viewer and other files.
Add .DCM to the file names	Adds the extension for software that needs it.

10.5 Encryption (protected discs)

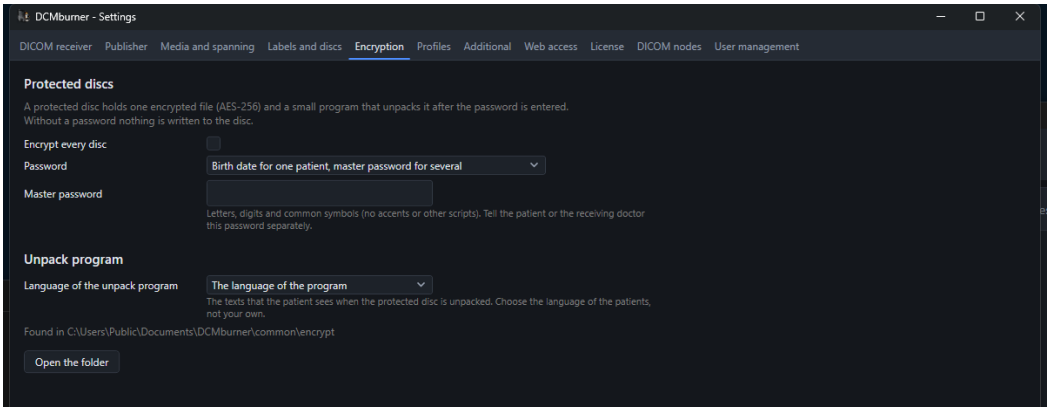


Figure 23. Setup > Encryption

With **Encrypt every disc** on, the disc holds only `Patient.enc` (AES-256, WinZip format; any current archive program opens it with the password) and the unpack program.

- **Password**: the birth date for one patient, or always the **master password** (letters, digits, common symbols; no accents).
- Without a password nothing is written to the disc.
- The patient starts `UnpackPatient.exe`, types the password, and the files are written to the local disk and the viewer starts. Closing the window removes the files again.
- **Language of the unpack program**: choose the language of the patients. All 18 languages exist.

Tip: Tell the patient or the receiving doctor the master password separately (not on the disc).



Figure 24. The unpack program that the patient starts (UnpackPatient.exe)

What the patient does: start `UnpackPatient.exe` (the disc starts it by itself on Windows), type the password, click **Unpack**, answer **Yes** to "Use the temporary folder to unpack?" and wait. The files are unpacked into a temporary folder, the viewer starts, and the button changes to **View Patient**. When the patient closes the window, the temporary folder is removed.

Note: Tested for this manual: a protected folder made with a fixed password was unpacked on this computer: 48 files (11.7 MB) appeared in a temporary folder, the Sup-C DICOM Viewer started by itself, and after closing the viewer and the unpack window the temporary folder was gone. The disc folder holds `Patient.enc`, `UnpackPatient.exe`, `AUTORUN.INF`, `message.txt` and `translate.lng`. The archive uses WinZip AES encryption, a wrong password is refused and the master password opens it. The window texts and the question about the temporary folder follow the language chosen in DCMburner when the disc was made; this was checked for Dutch, Arabic and Lithuanian. The **Yes** and **No** buttons of that question follow the language of Windows.

Note: Checked with the corrected texts: with Arabic and Lithuanian the title, the heading, the password label and the buttons of the unpack window are in that language. In Arabic the text runs right to left; the password field and buttons keep their usual places.

10.6 Profiles

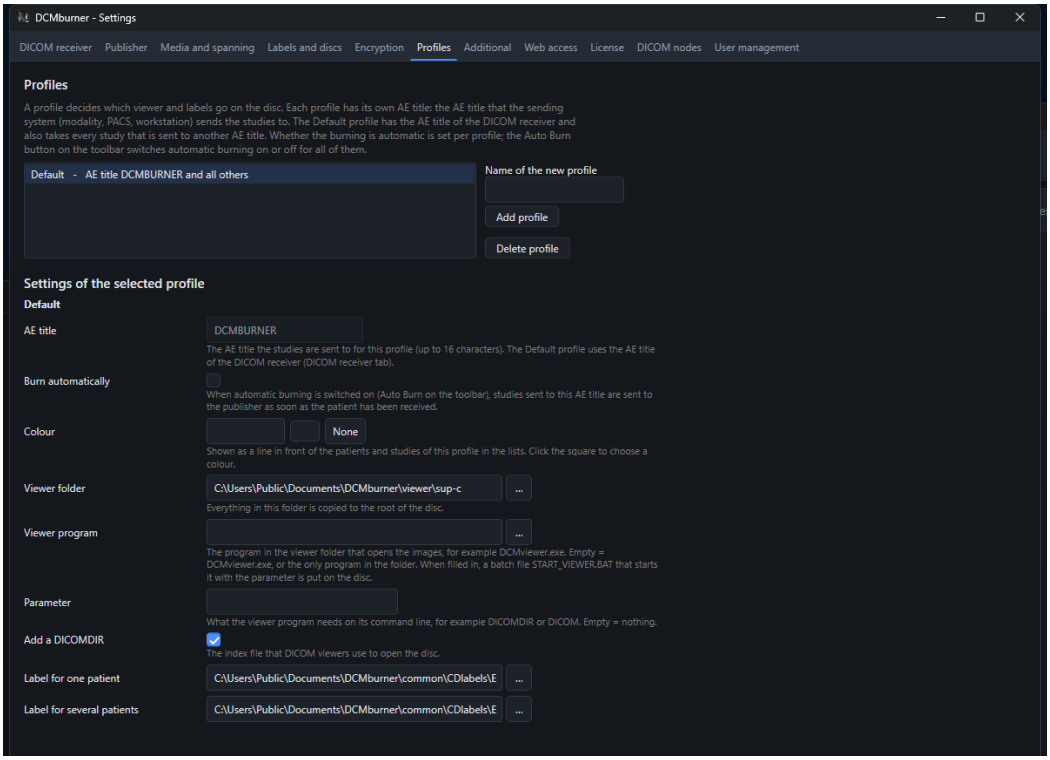


Figure 25. Setup > Profiles

A profile decides which viewer and labels go on the disc. The **Default** profile has the AE title of the receiver and also takes every study sent to another AE title.

Field	Explanation
Name of the new profile / Add profile / Delete profile	Create a profile for another AE title.
AE title	The AE title that the sender addresses (up to 16 characters).
Burn automatically	Studies of this profile burn by themselves when Auto Burn is on.
Colour	A coloured line in front of the patients and studies of this profile.
Viewer folder	Everything in it is copied to the root of the disc. Default `C:\Users\Public\Documents\DCMburner\viewer\sup-c`. Weasis is in `viewer\weasis`.
Viewer program / Parameter	Program that opens the images. The Default profile has DCM`viewer.exe` filled in, the Sup-C DCMviewer that comes with DCMburner; the **Parameter** stays empty because that viewer finds the images on the disc itself. Empty = DCM`viewer.exe` or the old DCM`viewer.exe`, or the only program in the folder. With a program set, DCMburner writes `START_VIEWER.BAT`.
Add a DICOMDIR	The index file DICOM viewers use to open the disc.
Label for one patient / several patients	Label template: Epson `.tdd`, Primera `.std`, Zeus `.plf`, Rimage `.btw` in `common\CDlabels`.
Field separator (Primera/Zeus)	Separator in the label data file.

10.7 Additional

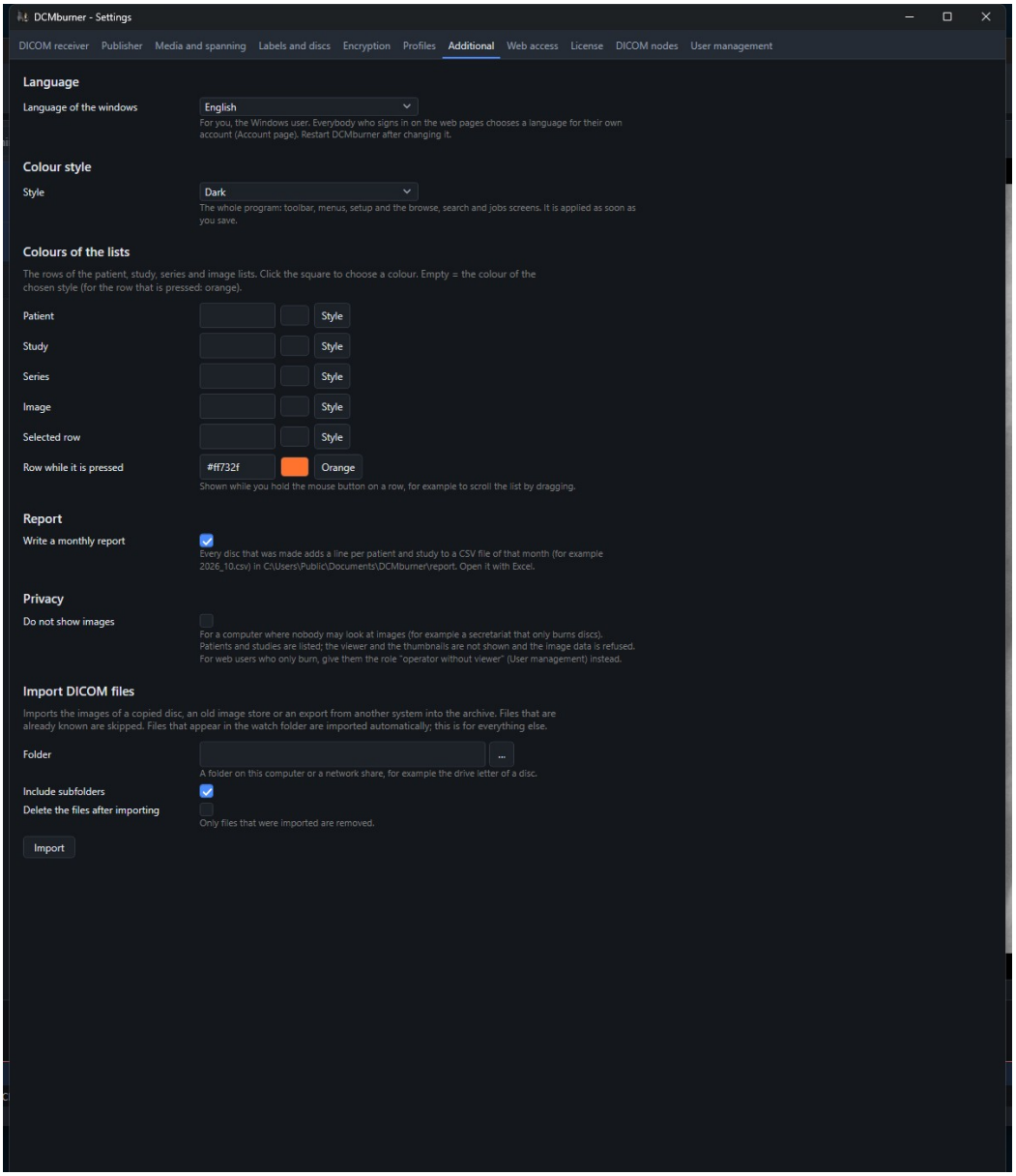


Figure 26. Setup > Additional

- **Language of the windows**: per Windows user; default is the language of Windows. After you save a changed language, DCMburner asks **Restart DCMburner now?**; click **Yes** to see the language everywhere. The web pages follow the account language.
- **The close button (X)**: what the X of the main window does, for your Windows user: **Ask every time** (default), **Hide in the system tray** or **Exit DCMburner**. The same answer is stored when you tick **Always do this** in the question.
- **Main window** (for a touch screen, or a computer that is only used for DCMburner): **No window frame** (no title bar and no cross, the window fills the screen and Alt+F4 does nothing), **Show the Close button** (off: the Close button of the toolbar is not shown) and **Main window always on top** (nothing else can be used or gets in the way). They work as soon as you save. The program is then closed with **Exit** in the system tray (the icons near the clock).
- **Daily restart of the computer**: tick **Restart the computer every day** and set the hour and the minute. At that time DCMburner closes cleanly (everything that has to be cleaned up is cleaned up) and the computer restarts 60 seconds later (`shutdown /a` cancels it). Jobs that are still open are waited for, at

most 30 minutes. Put DCMburner in the Startup folder, or choose the start task of the installer, so that it starts again by itself.

- **Colour style**: Dark (default) or another style, for the whole program.
- **Colours of the lists**: row colours for patients, studies, series, images, the selected row and the row while pressed (orange by default). Click the square to choose.
- **Write a monthly report** (on by default): every disc adds one line per patient and study to a CSV file of that month, for example `2026_10.csv`, in `C:\Users\Public\Documents\DCMburner\report`. Open it with Excel.
- **Do not show images** (privacy): for a computer where nobody may look at images, such as a secretariat that only burns discs. Patients and studies are listed, but the viewer and thumbnails are not shown. For web users who only burn, use the role operator instead.
- **Import DICOM files**: choose a **Folder** (a disc drive, an old image store or an export from another system), tick **Include subfolders** (on by default) and optionally **Delete the files after importing** (only imported files are removed), then click **Import**. Files that are already known are skipped.

10.8 Web access

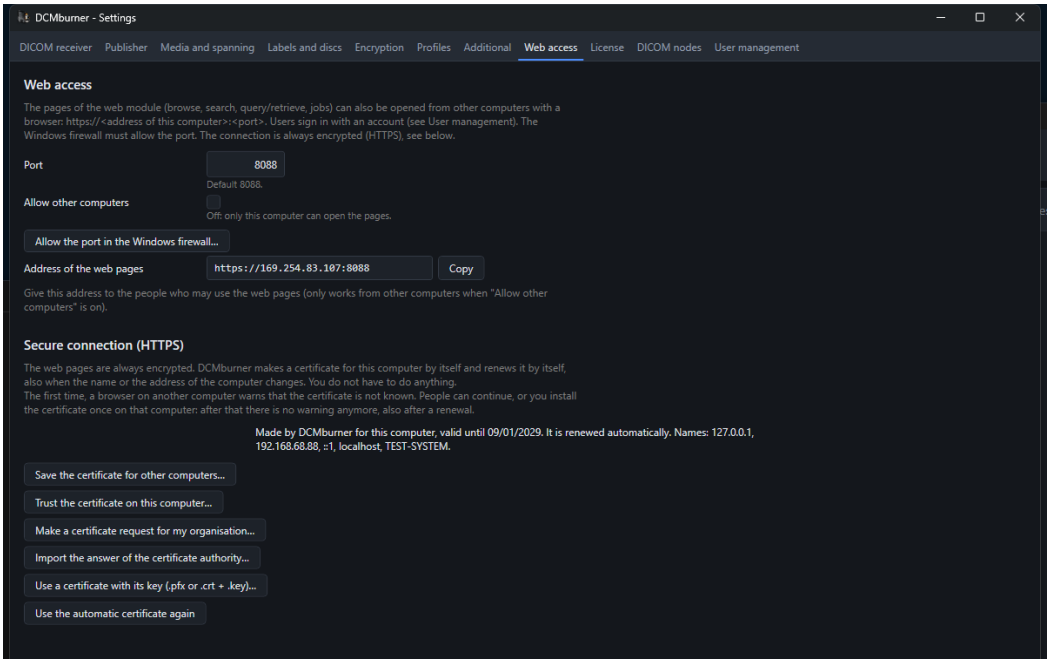


Figure 27. Setup > Web access

Item	Explanation
Port	Default 8088.
Allow other computers	Off: only this computer opens the pages. Takes effect when you save (the web module restarts by itself).
Address of the web pages / Copy	Give this address to the users.
Save the certificate for other computers...	Writes `.cer` and the install `.bat`.
Trust the certificate on this computer...	Installs the certificate here.
Make a certificate request for my organisation...	Creates a CSR for your certificate authority.
Import the answer of the certificate authority...	Imports the signed certificate.
Use a certificate with its key (.pfx or .crt + .key)...	Use an own certificate.
Use the automatic certificate again	Back to the certificate DCMburner makes by itself.

The certificate is made for the computer name, the FQDN, localhost and all IPv4 addresses, valid 800 days, and renewed automatically. The program warns before an own certificate expires.

10.9 License

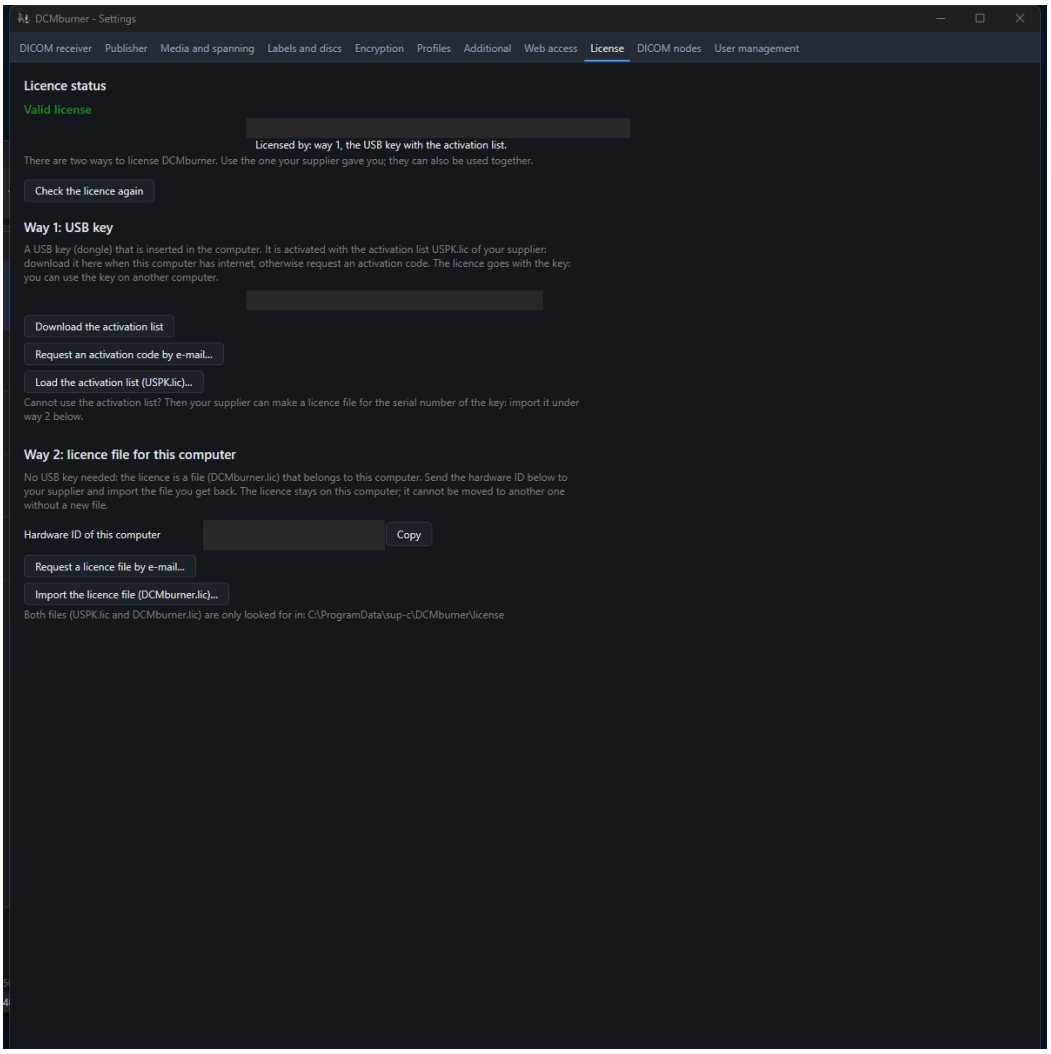


Figure 28. Setup > License

See the Installation Guide, chapter 6. The status shows **License OK** or the reason: no USB key, not activated, activation too old, file for another computer, licence ended, does not cover this version.

10.10 DICOM nodes

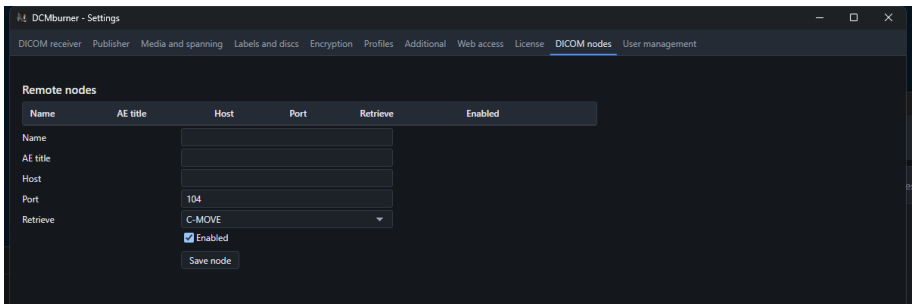


Figure 29. Setup > DICOM nodes

List of remote systems for Q/R: **Name**, **AE title**, **Host**, **Port**, **Retrieve** (C-MOVE or C-GET) and **Enabled**. **Edit** and **Delete** are at the end of each row. The program does not use DICOM TLS.

10.11 User management

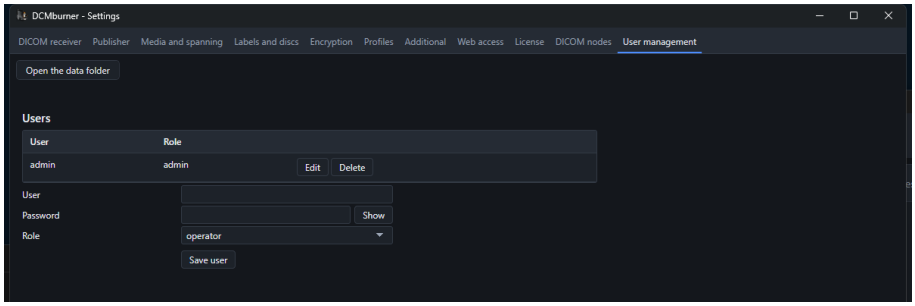


Figure 30. Setup > User management

Web users: **User**, **Password** (**Show** reveals it) and **Role** (administrator, user, operator); **Save user**. The first administrator is `admin` with the password chosen at the first start. The button **Open the data folder** is here as well.

11. Profiles in daily use

1. Setup > Profiles: **Add profile**, enter a name, then the AE title of the department.
2. Choose its viewer folder, labels and whether it burns automatically.
3. Save. Tell the department to send to that AE title (and the receiver's port).

Studies sent to an unknown AE title use the **Default** profile.

12. Publisher notes

12.1 Epson

- The Epson TD Bridge software must be running. DCMburner writes order files in its job folder; status comes from `TDBStatus.txt`.
- Choose the output stacker in Setup > Publisher. The Epson guide for the robot itself is "TD Bridge TRG".

12.2 Primera

- PTBurn must be running. Status comes from `status\SystemStatus.txt` in the job folder (see the PTBurn SDK manual). DCMburner reads the file in ANSI, UTF-8 and UTF-16 (the newer Primera software writes UTF-16). When PTBurn is in the middle of writing it, the file of the robot itself (for example `Disc Publisher 4200 Series.txt` in the same folder) is used, and the last good status stays for a minute.
- Use **check disc bin** and **clean ink cartridge** in Setup > Publisher.
- **Align printer**: when the robot reports system error 22 (for example after a new cartridge), DCMburner puts the command `ALIGN_PRINTER.PTM` (Message= ALIGN_PRINTER, ClientID=Administrator, as the file of the previous version) in the job folder, once for each time the error appears. PTBurn aligns the printer by itself; this is only valid on the Disc Publisher PRO (Primera SDK 4.4). When the alignment succeeds the error goes to 0, when it fails to 31 (see the Primera manual for your model).

12.3 Zeus (All Pro Solutions / PoINT)

- DCMburner writes the PoINT job list and follows the job files (`.JDF`, `.INP`, then `.DON` or `.ERR`). Reasons and operator requests (bin empty, ink, door) appear as a notice at the bottom.
- Label data comes in `merge.dat`: at most 4 studies, 30 characters per field and 700 per label.

Note: Epson, Primera and Zeus were tested with the manufacturer simulators for this manual: the burn job

went from In-Process to Completed each time. Testing with the real devices was done by the owner of the product, not for this manual.

12.4 Rimage

- DCMburner does not talk to Rimage itself. It puts a job file (`<job id>.job.json`) in the `Queue` folder of the Rimage queue folder; the **Rimage bridge** (`DCM2Media.Rimage.exe`, a Windows service or `Run-Console.cmd`) picks it up, has the Rimage Software Suite make the image, record and print the disc, and writes the state in `Status\<job id>.status.json`.
- The states in **Jobs**: Wait (the job is in the queue), Preprocessing (the bridge checks the job and Rimage makes the image), In-Process (waiting for the robot, recording, printing), Completed, Error. An error shows the message and code of the bridge or of Rimage, for example 364 (no recorder attached to the loader: a condition of the robot or of the Rimage setup).
- **Delete** on the Jobs page (operator and higher) removes a job from the list, also a job that stays In-Process because the publisher never reported back. For Rimage the bridge is asked to cancel the order first (a disc that is still being made is stopped) and the staged disc content is removed. The studies of the job are no longer protected against the clean-up of the archive.
- **Retry** on a failed disc makes the same disc again under a new job id (`<job id>-R2`, `-R3`, ...). A job id is used only once.
- The disc content stays in `<job folder>\TempCD\<job id>` until the job is finished; after **Completed** it is removed. **Delete the jobs** when you close the program removes the jobs the bridge has not picked up yet.
- The bridge waits for an order to end: **RimageImageOrderTimeoutSeconds** (900 s, the image) and **RimageProductionOrderTimeoutSeconds** (3600 s, recording and printing) in `DCM2Media.Rimage.exe.config` next to the bridge. A real recorder and printer need minutes; with a shorter wait the bridge stops listening before the disc is finished and the job stays In-Process. After changing them restart the bridge.
- While the bridge connects to a local Rimage Software Suite, Windows may show a missing-DLL error for `RmStreaming.exe` (`RmDiscover_1_5_n_2.dll`). It comes from RSS itself, does not affect the bridge: click OK. Do not copy files into the RSS folder.
- The bridge works on **up to two discs at the same time**, so that both recorders of the Rimage system are used (`RimageMaxConcurrentJobs` in `DCM2Media.Rimage.exe.config`, default 2; the Rimage server queues what it cannot start yet). More jobs wait in the queue (state Wait) until a place is free. This is not a fault. Only when no disc is being made and a job waits for more than a minute and a half, the bottom of the window says: **The Rimage bridge does not pick up ... Is it running?** After changing the number restart the bridge.
- When the Rimage server waits for a person (**door open**, **out of blank discs**, a jam ...), the text of its dialog is shown in the **Message** column of the job in Jobs (for example *AUTOLOADER ERROR! (Autoloader 1, HID-0): Out of blank discs. Reload the input bin(s) ...*). The job stays In-Process: when the cause is solved the disc continues and the text goes away by itself (the server repeats its dialog about every two minutes, so it can take a short while).
- **Clean up when the program closes** (Setup > Publisher, on by default): when DCMburner is closed, everything that belongs to finished jobs is removed: the working folders and the ISO images of the bridge (an image is as big as the disc), the job and status files and the staged disc content. Jobs that are still open, and failed jobs that wait for a retry, stay. The queue, the labels and the files of the bridge itself are never touched. Together with the daily restart this clears everything every day.
- **Start the Rimage bridge with DCMburner** (Setup > Publisher, on by default): every 30 seconds DCMburner checks whether the bridge runs and starts it (`DCM2Media.Rimage.exe run`, hidden) when it does not. If the Windows service of the bridge is installed, the service is the one that runs it; a stopped service gives a message at the bottom of the window and DCMburner does not start a second bridge.

After three starts in ten minutes it stops trying and reports it. A bridge started by DCMburner keeps running when DCMburner is closed, because it may still have discs to make. Switch the option off when you start the bridge by hand, for example with a simulator.

- A disc of a series (the data does not fit on one disc) becomes one job per disc (`-M1`, `-M2`, ...) of the same order; the bridge makes them one after the other.
- Label fields (the `.btw` template must use these merge field names): one patient `PatientName`, `PatientID`, `BirthDate`, `StudyDate`, `AccessionNumber`, `Modality`; several patients `PatientCount`, `StudyCount`, `DiscNumber`, `DiscCount`, `CreatedDate`, `InstitutionName`, `JobId`, `PatientSummary`, `StudySummary`. Names are written as `DOE, JOHN`, dates as dd/mm/yyyy, several study dates as a range, several accession numbers as `Multiple`.

Not verified: Rimage was not tested with the Rimage Software Suite or a robot for this manual (see the Installation Guide). How a label with Hebrew, Greek, Japanese, Arabic or Cyrillic text prints on a real label has not been seen yet. A job cannot be stopped from DCMburner yet; the bridge supports it.

13. Maintenance

- **Backup**: the database is backed up daily in `C:\ProgramData\sup-c\DCMburner\database\backup`. Back up the data folder for a full copy.
- **Log file**: `C:\Users\Public\Documents\DCMburner\log\yyyymmdd_dcmburner.log` (see About). Send it to support when asked.
- **Updates**: install the newer installer over the old one.
- **Disk space**: see the remove rules in Setup > DICOM receiver.

14. Problems and solutions

See the **FAQ** for more. Quick list:

Symptom	Check
Studies do not arrive	Red message at the bottom (port in use)? AE title and port at the sender (4006)? Firewall?
Burn is refused	Demo time over or no valid licence (status bar).
Job ends in Error	Message in Jobs: blank discs, ink, job folder, publisher software running?
Web pages not reachable from another PC	Allow other computers, firewall, certificate installed.
Retrieval fails with 'Cannot understand'	C-MOVE: register DCMburner in the PACS, or use C-GET.
Protected disc says wrong password	Use the password you gave; ASCII characters only.