DCMburner

Version 7.2.0

Getting Started

Your first disc in ten minutes

For new users

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1. What you need

- DCMburner is installed and the administrator has chosen a password (see the Installation Guide).
- The disc publisher is on, has blank discs and ink, and its software is running.
- Some DICOM studies: either sent to DCMburner by a modality, or fetched from a PACS (this guide fetches them with Query/Retrieve).

2. The main window

The window has a **toolbar** at the top, the working area in the middle and **status lines** at the bottom.

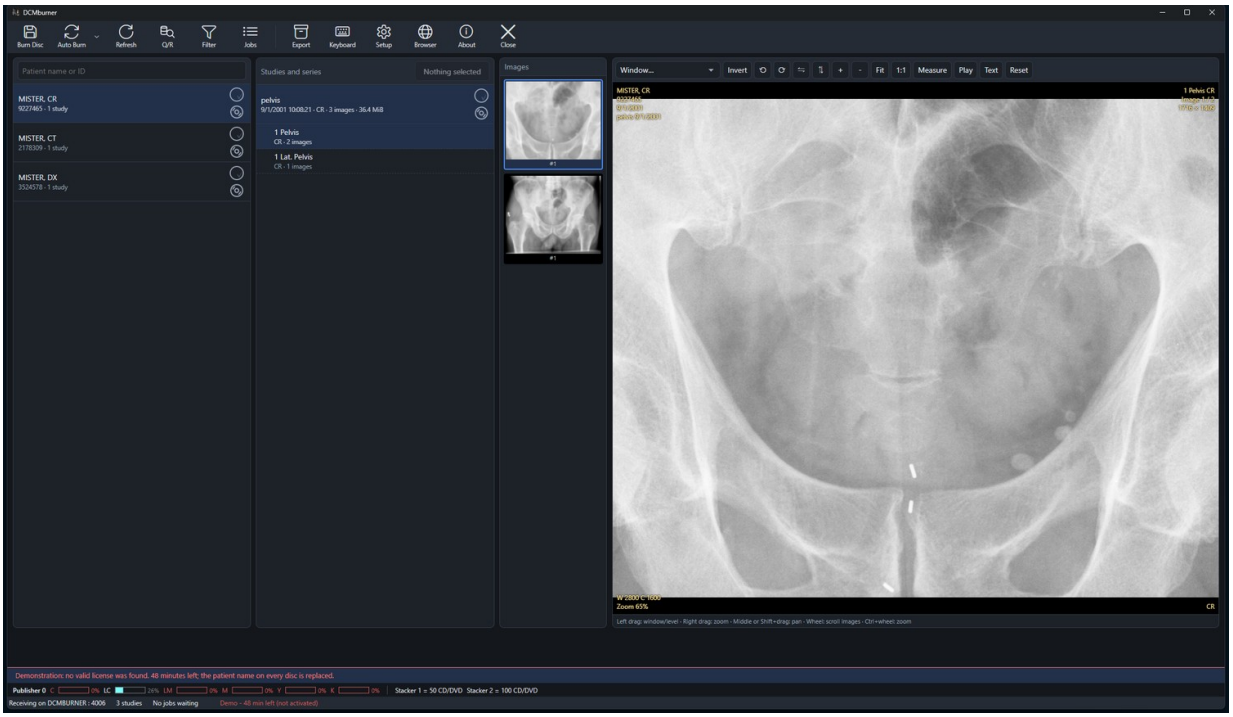


Figure 1. The main window (Browse). Left to right: patients, studies and series, images, viewer

Button	What it does
Burn Disc	Burns the ticked patients/studies on disc.
Auto Burn	Switches automatic burning on or off. The small arrow chooses which profiles burn automatically.
Refresh	Loads the lists again.
Q/R	Asks another DICOM system for studies and fetches them.
Filter	Searches the archive (name, ID, date, modality ...).
Jobs	Shows burn jobs, retrievals and imports with their state.
Export	Writes the ticked studies to a folder instead of a disc.
Keyboard	Shows an on-screen keyboard (for touch screens).
Setup	Settings. Administrators only.
Browser	Opens the same pages in your normal web browser.
About	Version, licence status and the places of the data and log files.
Close	Really quits the program. The window's own X only hides it in the system tray.

Tip: The X of the window asks whether to hide DCMburner in the system tray (the small icon near the clock) or to exit. Hidden, it keeps receiving studies. Use **Close** or **Exit** in the tray menu to really quit.

The status lines

Above the bottom line you see the **publisher strip**: for Epson the ink levels and the discs in the stackers, for Primera the ink cartridges and the discs in the bins. The last line shows the receiver (AE title and port), the number of studies, the open jobs, the Auto mode and the licence.

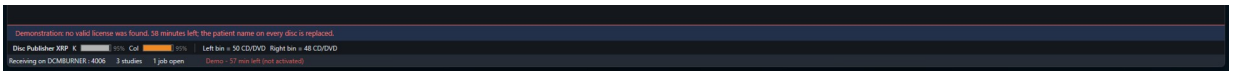


Figure 2. Status lines with a Primera robot

3. Step 1: connect to your PACS (once)

To fetch studies you first tell DCMburner which system to ask. This is done once, by the administrator.

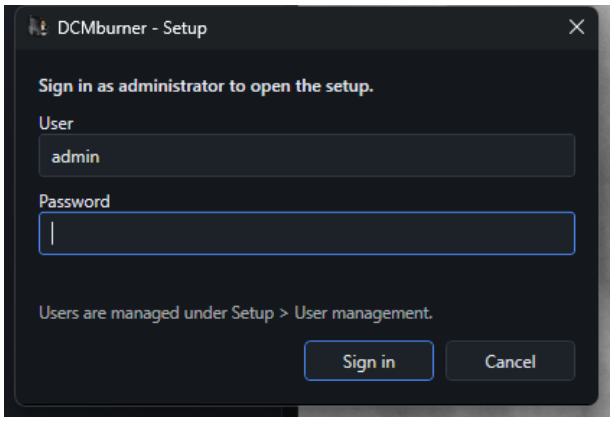


Figure 3. Setup asks for the administrator sign-in

1. Click **Setup** and sign in as administrator (the sign-in stays valid for 10 minutes).
2. Open the tab **DICOM nodes**.
3. Fill in **Name**, **AE title**, **Host** (name or IP address) and **Port** of the PACS.
4. Choose **Retrieve**: **C-MOVE** or **C-GET** (see the box below). Keep **Enabled** ticked.
5. Click **Save node** and then **Save all changes**.

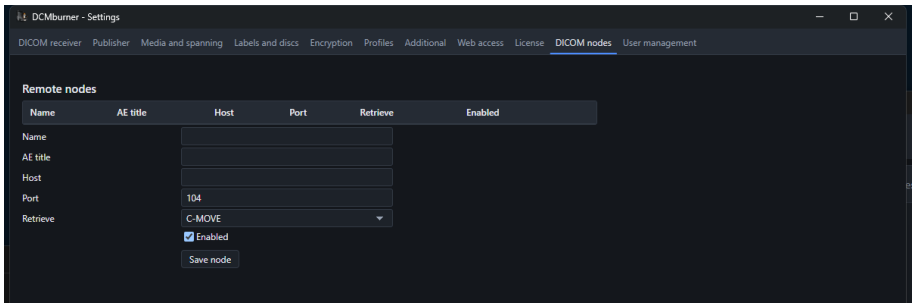


Figure 4. Setup > DICOM nodes

Note: With **C-MOVE** the PACS must know DCMburner: add its AE title, the IP address of this computer and port 4006 in the PACS. If it does not, the retrieval fails with "The node must know our AE title". **C-GET** needs no change in the PACS if the PACS supports it.

4. Step 2: fetch studies with Q/R

1. Click **Q/R**.
2. Choose the **Node**. Click **Test connection** to check that the PACS answers.

3. Type a **Patient name** (for example `mister*`; * and ? are wildcards) or fill any other field, and click **Query**.
4. Tick the studies you want. The column **In archive** tells you which ones you already have.
5. Choose **Retrieve with** (node default, C-MOVE or C-GET) and click **Retrieve selected**.
6. Click **Jobs** to follow the progress: **Received 111 / 111 - Completed**.

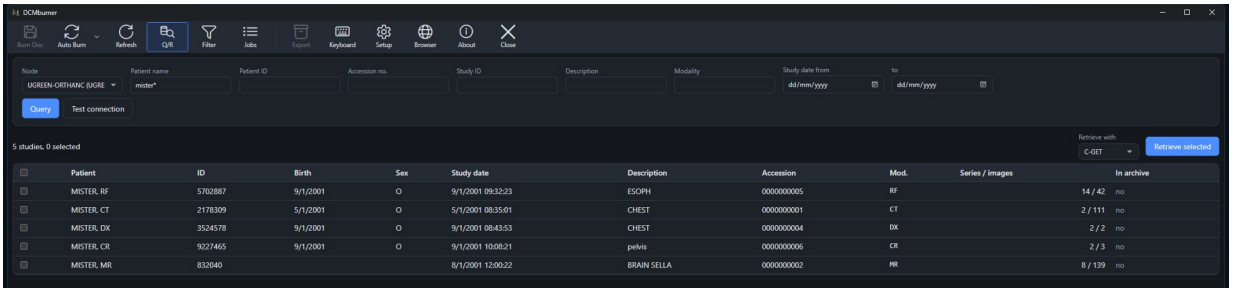


Figure 5. Q/R: five studies found for the name "mister"

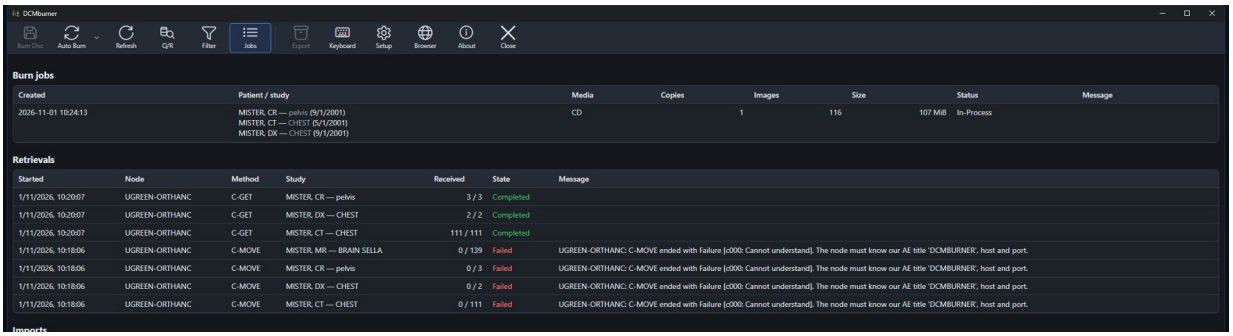


Figure 6. Jobs: the burn job and the retrievals. A failed retrieval shows the reason

5. Step 3: look at the images

1. Click **Refresh** (and leave Filter/Q/R if one of them is open) to see the **Browse** view.
2. Click a **patient**. The middle list shows the studies and series.
3. Click a **series**. The thumbnails appear in the third column.
4. Click a thumbnail to see the image. Scroll with the mouse wheel to go through the images.

In the viewer: **left-drag** = window/level, **right-drag** = zoom, **middle button** or **Shift+drag** = move, **Ctrl+wheel** = zoom. The buttons above the image invert, rotate, flip, fit, measure, play a series and show or hide the text.

6. Step 4: burn a disc

1. Tick the circle at the right of the patient or study row (or use **Filter**, tick studies and click **Select for burning**).
2. Click **Burn Disc**. The list of selected studies opens.
3. Check the list. Click **Calculate size** to see how much room it needs.
4. Choose the number of **Copies** and, for more than one patient, **one disc (set) for all patients** or **a separate disc for each patient**.
5. Click **Burn**.

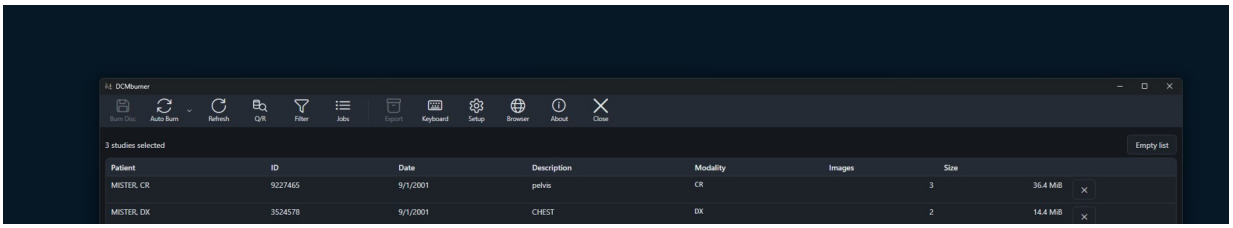


Figure 7. The burn list (here empty); after selecting studies it lists them

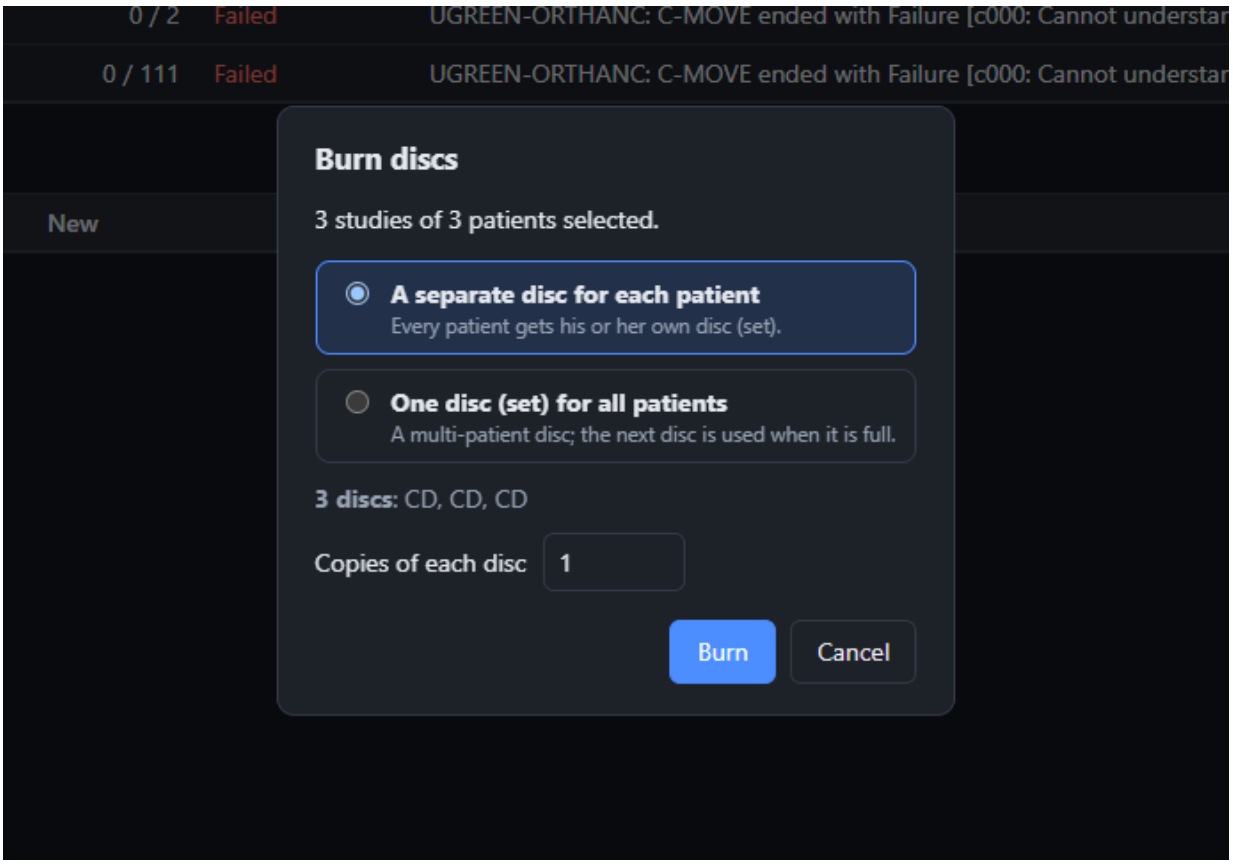


Figure 8. The question that appears for several patients

Open **Jobs**. The job goes through the states **In-Process** and **Completed**; **Error** shows a message and a **Retry** link. The robot loads a disc, writes it, prints the label and puts the finished disc in the output stacker or bin.

Warning: Without a licence, the program is a demonstration: the patient name on the disc is replaced by `DCMburner^Demo` and burning stops after one hour per start.

What is on the disc

```
DICOM\PAT0\STUDY0\SERIES0\IM0 ...   the images
DICOMDIR                            the index for DICOM viewers
DCMviewer.exe                 the viewer (Sup-C DCMviewer)
AUTORUN.INF                         starts the viewer by itself
```

7. Step 5: burn automatically

1. Click the small arrow next to **Auto Burn** and tick the profiles that should burn by themselves (Setup > Profiles: **Burn automatically**).
2. Click **Auto Burn** so that it is switched on.

3. Send a study to DCMburner. After a quiet period (default 20 seconds without new images) the patient is burned.

Tip: A **profile** is one AE title. Give the radiology department one AE title (profile with Auto Burn on) and the cardiology department another (no Auto Burn, other viewer or label).

8. Where to go next

- **User Manual**: every window and setting explained.
- **Tips and Tricks** and **FAQ**: faster work and solutions to common problems.