DCMburner

Version 7.2.0

Specifications

Technical data sheet

For IT staff, buyers and resellers

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1. What DCMburner does

DCMburner receives DICOM studies from modalities and PACS systems, keeps them in its own archive, and writes them on CD, DVD or Blu-ray **patient discs** with a disc publisher (a robot with a loader, a burner and a printer). Each disc holds the DICOM files, a DICOMDIR, a viewer, and optionally a printed label.

Discs can be written by hand (**Burn Disc**) or automatically (**Auto Burn**). Studies can also be fetched from another system (Query/Retrieve), imported from a folder, and exported to a folder.

2. System requirements

Item	Requirement
Operating system	Windows 10 (build 14393 or later) or Windows 11, 64-bit (x64)
Rights	Administrator rights to install; any Windows user can run the program
Web component	Microsoft Edge WebView2 Runtime (the installer adds it when it is missing; internet access is needed once)
Runtime	Self-contained: .NET is part of the program, nothing else to install
Network	TCP port **4006** (DICOM receiver) and TCP port **8088** (web pages); both can be changed
Disc publisher	One of: Epson Discproducer PP-xxx (with Epson TD Bridge), Primera Bravo / Disc Publisher (with PTBurn), All Pro Solutions "Zeus" (with PoINT Publisher), Rimage (with the Rimage Software Suite and the Rimage bridge)
Licence	USB key (Rockey4ND) or a licence file for the computer; without a licence the program runs as a one-hour demonstration
Disk space	The installer asks for at least 329 MB free (program about 180 MB plus about 150 MB of shared viewers and labels; the installer itself is 114 MB); the archive needs room for all studies you keep (see 'Free space wanted' in Setup)
CPU / memory	Not specified. Any computer that runs Windows 10/11 and the publisher software is suitable.

Not verified: Minimum CPU and memory were not measured. The disk size of the program was read from the installer; check it after installation.

3. Supported disc publishers

Publisher	Software it talks to	Job folder (default)	Status shown in DCMburner
Epson Discproducer PP-xxx	Epson TD Bridge	`C:\EPSON\TDBridge\Orders`	Ink levels (C, LC, LM, M, Y, K) and discs in stacker 1 and 2
Primera Bravo / Disc Publisher	Primera PTBurn	`C:\PTBurnJobs`	Ink cartridges, discs in the left and right bin, robot error
All Pro Solutions "Zeus"	PoINT Publisher (DCMburner talks to it directly)	`C:\aps`	Notices at the bottom of the window (bin empty, ink, door)
Rimage	Rimage Software Suite, through the Rimage bridge (`DCM2Media.Rimage.exe`)	`C:\ProgramData\sup-c\DCMburner\Rimage` (the queue folder)	Job states in Jobs; a notice at the bottom when the bridge does not pick up jobs

The publisher is chosen once, in **Setup > Publisher**. Sony, Microboards and local-drive burning of the old Delphi version (6.x) are no longer supported.

4. Disc media

Medium	Physical capacity	Default size DCMburner fills
CD	703 MiB	650 MiB
DVD	4482 MiB	4400 MiB
DVD dual layer	8145 MiB	7900 MiB
Blu-ray	23841 MiB	23000 MiB
Blu-ray dual layer	47683 MiB	46000 MiB

- File systems: JOLIET and ISO9660 level 2 for CD; UDF for DVD and larger discs (also selectable).
- Spanning: data that does not fit is spread over several discs, or the program switches to the next larger disc type.
- The size is calculated beforehand, including the viewer and the DICOMDIR.
- Optional verify after burning and number of copies (per profile and publisher).

5. DICOM functions

Function	Details
Receiver (Storage SCP)	Default AE title = computer name in capitals, default port 4006. Accepts any storage SOP class and any transfer syntax; files are stored exactly as received.
Verification (C-ECHO)	Answered by the receiver. Also available as **Test connection** for remote nodes.
Query/Retrieve (SCU)	Study-level C-FIND; retrieve with C-MOVE or C-GET per node.
Watch folder	Files dropped in `C:\Users\Public\Documents\DCMburner\watchfolder` (and extra folders) are imported.
Folder import	Import a whole folder (also with sub-folders) from Setup.
Export	Writes viewer, DICOM files and DICOMDIR to a folder.
Disc content	DICOM files in folders `DICOM\PATn\STUDYn\SERIESn\IMn`, a `DICOMDIR`, the viewer, `AUTORUN.INF`.
Security	DICOM itself is not encrypted (no DICOM TLS). The web pages always use HTTPS.

Details are in the separate document **DICOM Conformance Statement**.

6. Profiles and Auto Burn

- A **profile** is one AE title that a sending system addresses. It carries its own viewer, DICOMDIR option, label templates and an Auto Burn switch.
- Auto Burn burns studies of Auto-Burn profiles after a quiet period (default 20 seconds).
- Typical use: one AE title per department or per disc layout.

7. Protected (encrypted) discs

- The disc holds one encrypted file `Patient.enc` (AES-256, WinZip format) and the unpack program `UnpackPatient.exe`.
- Password: the birth date (one patient) or a master password.
- The unpack program exists in all 18 program languages; the language is chosen in Setup.

8. Web module

- The same pages as in the window (browse, search, Q/R, jobs, users, nodes) open in a normal browser at `https://<computer>:8088`.
- HTTPS with a certificate DCMburner makes by itself (own authority, valid 800 days, renewed automatically). Own certificates (.pfx or certificate + key) and certificate requests (CSR) are supported.
- Roles: administrator, user, and operator (burns but never sees images).
- Browsers: Edge, Chrome, Firefox, Safari (see the Installation Guide for the certificate).

9. Languages

18 languages: English, Dutch, German, French, Spanish, Portuguese, Greek, Slovak, Czech, Polish, Romanian, Hungarian, Italian, Arabic, Russian, Ukrainian, Lithuanian and Bulgarian. Arabic is shown right-to-left on the web pages. Texts can be overridden with a file `<code>.lng` in `C:\Users\Public\Documents\DCMburner\language`.

10. Folders

Purpose	Location
Program	`C:\Program Files\sup-c\DCMburner`: the starter `DCMburner.exe`, the folder `bin` (the program and its libraries) and the folder `uninstall`
Data (archive, database, settings, licence, certificates)	`C:\ProgramData\sup-c\DCMburner`
Shared files (labels, viewers, watch folder, report, log, language)	`C:\Users\Public\Documents\DCMburner`
Per Windows user (window position, language choice, cache)	`%LOCALAPPDATA%\sup-c\DCMburner`

11. Limits and things not offered

- No DICOM TLS; no Modality Worklist, no Storage Commitment, no Print.
- The Mac and Linux viewers are not on the disc. A Mac user installs Horos (free, horosproject.org) and opens the disc there; OsiriX does the same.
- Data of the old MySQL-based version is not migrated; old image files can be imported again from a folder.