

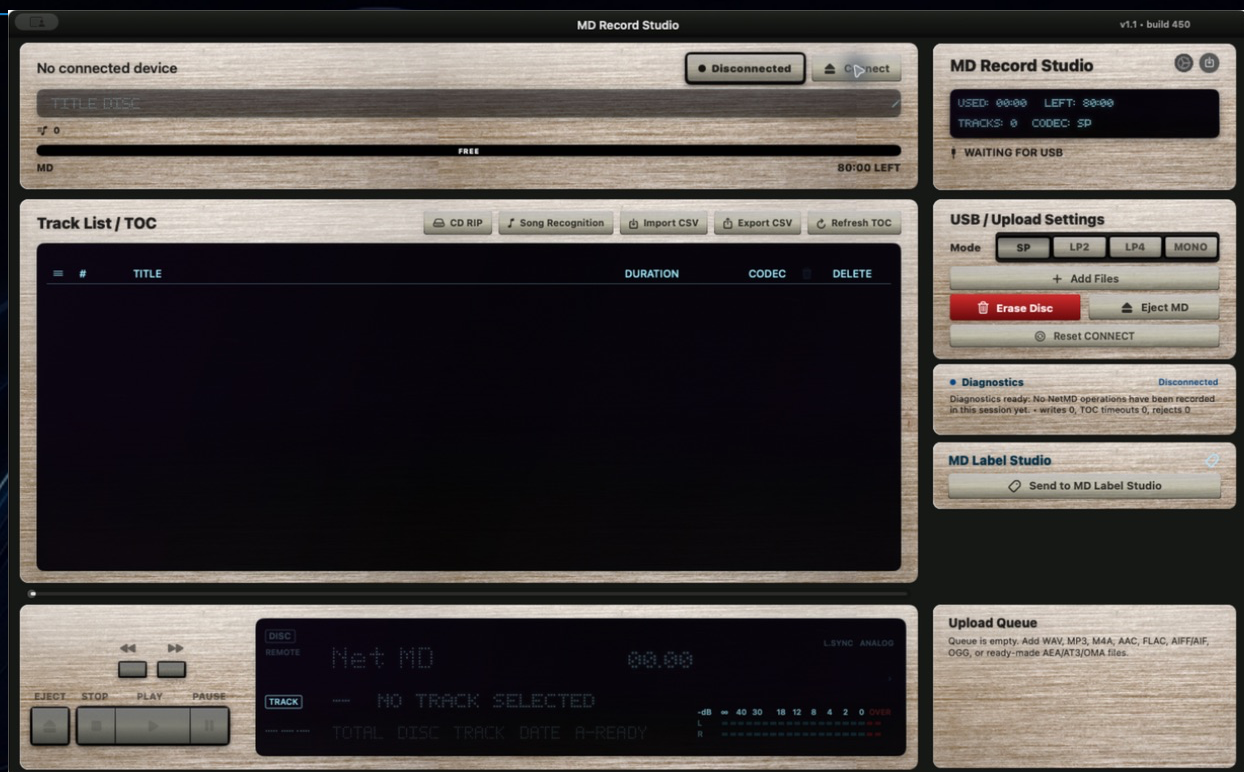


MD Record Studio

COMPLETE USER GUIDE

Version 1.1 • build 450

Universal • Apple Silicon + Intel



Record, organize and transfer MiniDisc

Main application window

Contents

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Illustration policy	All images in this PDF are MD Record Studio windows only or selected fragments of these windows. Desktop, Dock, macOS menu bar, adjacent windows and user data are excluded. Image text was not scaled when the source screenshots were cropped.
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Select a section to continue • Contents 2/2

1. How to read the manual and check statuses

MD Record Studio integrates compatible NetMD deck control, loading audio via USB, CD reading, metadata searching, title recognition and interface design. The sections below separate confirmed features from restrictions and scenarios that require physical hardware.

Status	Meaning
VERIFIED	Verified by code, bundle metadata, installed application or live hardware session.
NOT TESTED	The feature exists, but the specific scenario has not been run on the required hardware.
NOT CAPTURED	The scenario is confirmed or envisaged, but the public screenshot is not taken due to user data/media.
LIMITATION	Known limitation of the current build or protocol NetMD.
EXPERIMENTAL	The function is available, but may not work on all decks or produce non-standard results.

Key Limitation	The supported NetMD command path does not trigger analog, optical or coaxial recording on the deck. Music Sync/REC and Experimental Audio Control have been removed. Such recordings are launched on a physical deck.
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1.1. Two project builds

- MD Record Studio.app - Universal build 450 for Apple Silicon and Intel.
- MD Record Studio Native.app - arm64 build 450 for Apple Silicon.
- The guide is focused on the Universal application installed in /Applications.
- The x86_64 slice is present, but the real run on a physical Intel Mac remains NOT TESTED .

2. Installation from DMG and updating the program

Installer version	The saved DMG-checkpoint of the project refers to build 447. Current The tested bundle is build 450, but DMG build 450 is missing in the project. The installation steps below are universal; always check the build inside the application.
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- 1

Get a trusted DMG
Use the package from MD Software. Do not run a random copy downloaded from an unverified site.
- 2

Open the image
Double click DMG. Finder will show the application, an Applications link, and, if included in the package, a README CHANGELOG.txt.
- 3

Install bundle
Drag MD Record Studio to Applications. When upgrading, confirm to replace the existing version.
- 4

Wait for copying
Do not extract the image until copying is complete. Then open Applications and run exactly the installed bundle.
- 5

Check version
About should show Version 1.1 and Build 450 for the current application.
- 6

Extract DMG
After successful launch, extract the mounted image via Finder.

2.1. If macOS warns about a developer

The current build is signed with a valid ad-hoc signature, but Developer ID and notarization are not confirmed. macOS may show a warning. Open the application only if the origin of the package is known. Not disable Gatekeeper and do not execute commands that remove protection from the entire system.

Safe way	System Settings → Privacy & Security → allow launch only for specific MD Record Studio if you are sure of the source. Do not use global security bypasses.
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2.2. Update without losing settings

- Close MD Record Studio before replacing bundle.
- Replace only the application in /Applications; user settings are stored separately.
- Do not delete Application Support and saved Runtime Logs unless necessary.
- After updating, check the selected skin, level source, CD offset and CSV profile.

3. First launch

- 1

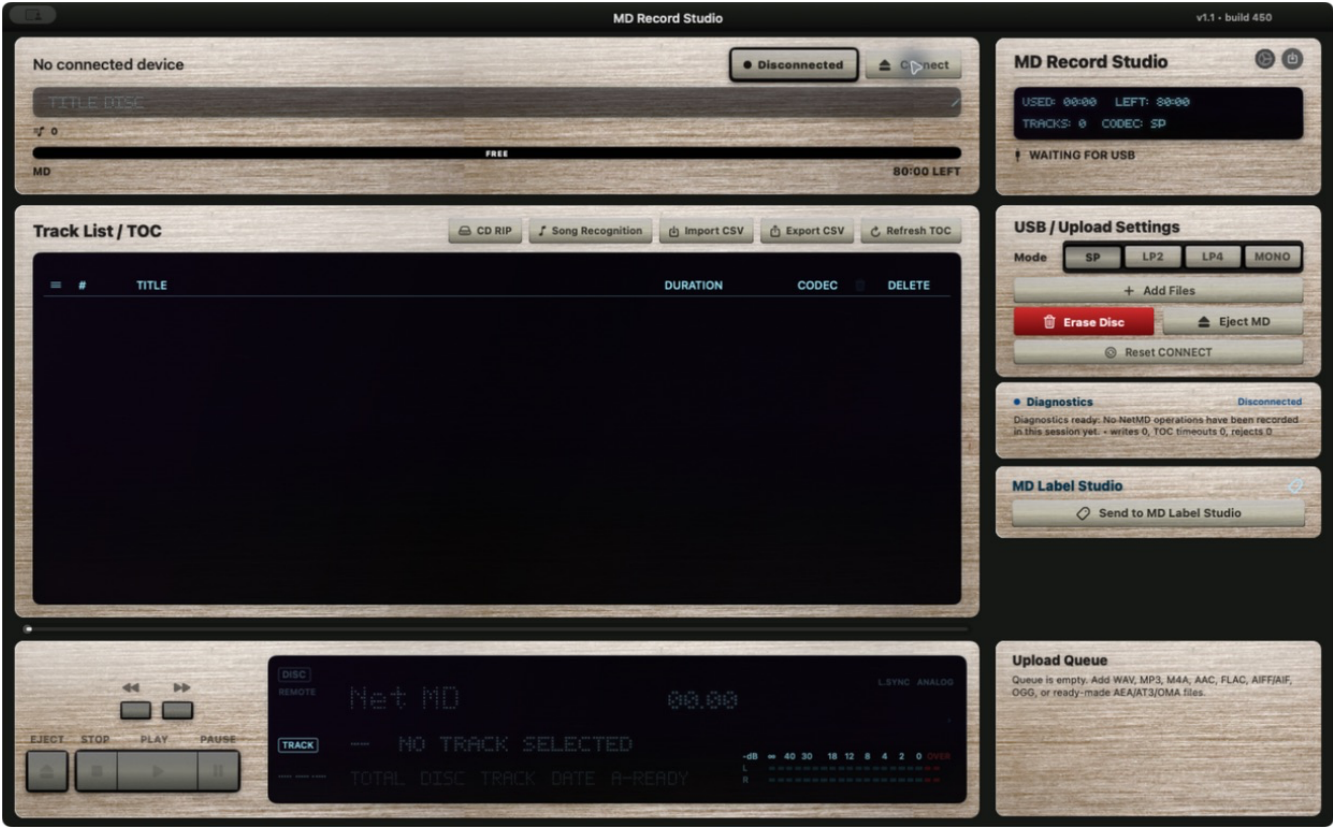
Launch from Applications
Do not use copy from DMG, Downloads, DerivedData or archives.
- 2

Open Settings
Check SP mode, title pattern, encoder, server, USB format, level source, CD read mode and skin.
- 3

Connect the deck
Insert MiniDisc and use USB data cable.
- 4

Click Connect
Wait for Connected and TOC LOADED OK.
- 5

Do a secure check
Open Track List, press Play/Pause/Stop on the test disc and make sure the active track is being tracked.

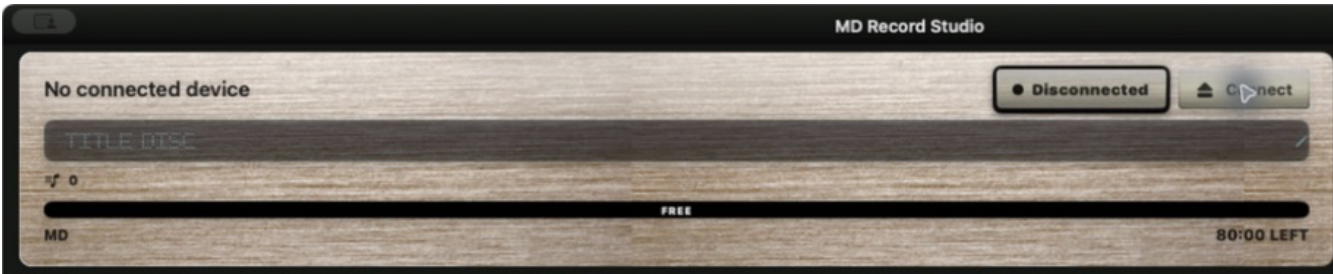


Rice. 1. Main window build 450 in a safe state without a connected deck. This is the entire application window; macOS environment not shown.

Audio Input Resolution	It is only required for Audio Input (Real) and LINE-IN Song Recognition. For the Simulated meter and normal control of the NetMD, microphone resolution is not needed.
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4. Main window

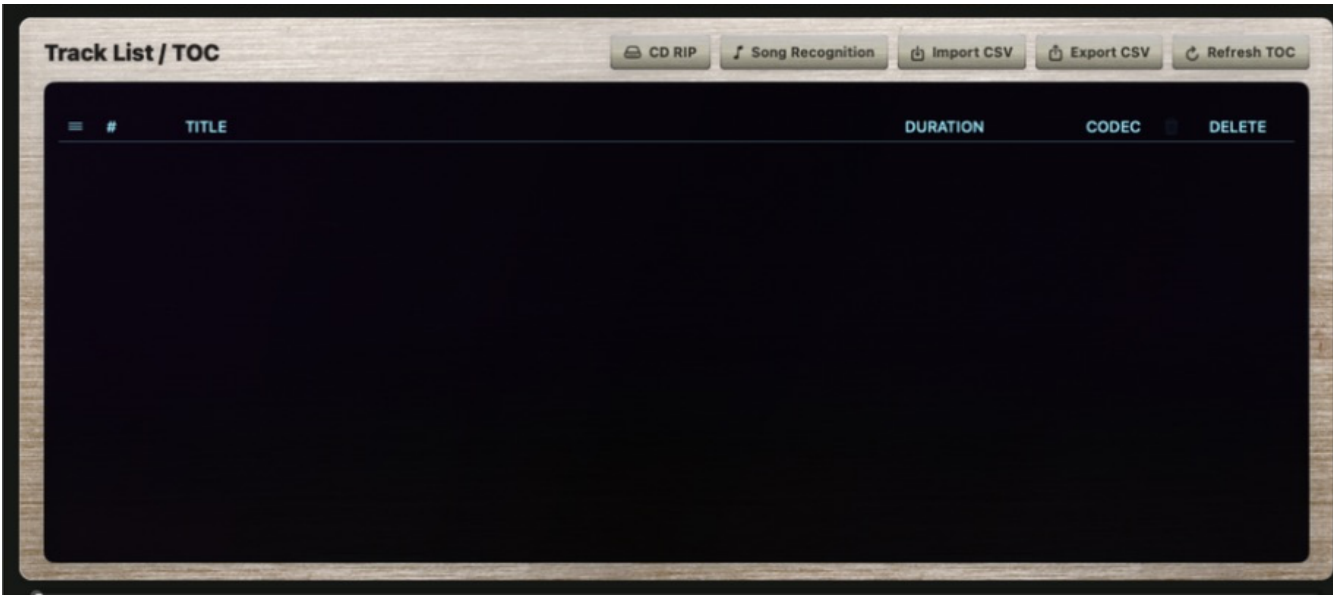
The main window is divided into four working areas: the top panel of the device, Track List / TOC, right operation block and lower transport/VFD display.



Rice. 2. Device panel: model/status, Connect, disk name, fill bar and remaining time.

4.1. Top panel of the device

- No connected device / WAITING FOR USB - active USB - no session.
- Connected - USB - session is open.
- TOC LOADED OK - the disk structure has been read and the Track List is current.
- Reading/Updating TOC - Do not unplug the cable or remove the disc.

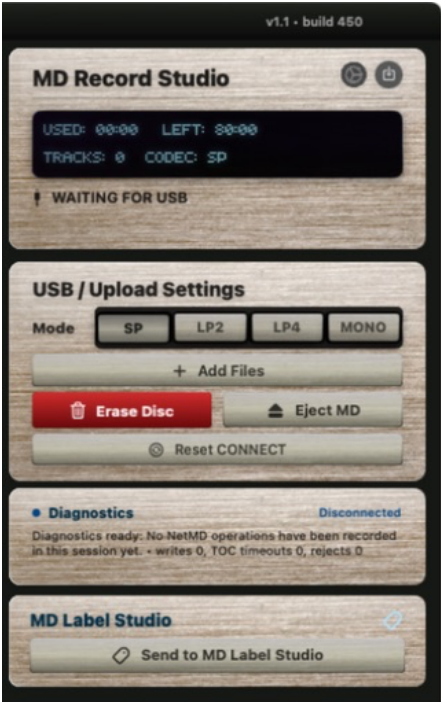


Rice. 3. Track List / TOC and buttons CD RIP, Song Recognition, Import/Export CSV and Refresh TOC.

4.2. Track List / TOC

The table shows the number, name, duration, codec and available actions. A line can be selected, a title can be edited, a track can be deleted or move by dragging. During playback the list is automatically scrolls to the active track.

4.3. Right block of operations



- MD Record Studio
Summary USED/LEFT, number of tracks and codec.
- USB / Upload Settings
SP, LP2, LP4, MONO; Add Files; Erase Disc; Eject MD; Reset CONNECT.
- Diagnostics
Current status, number of writes, TOC timeouts and rejects.
- MD Label Studio
Transfers the current result to an external design application.
- Upload Queue
Queue for preparing and recording sources.

4.4. Transport and display



Rice. 4. Previous/Next, Eject, Stop, Play, Pause, seek and VFD display.

The display shows the selected/active track, time, PLAY indicator and level. Seek works within the current track. Previous/Next controls the hardware deck.

5. Connecting NetMD and reading TOC

5.1. Preparation

- Use a compatible NetMD deck/recorder and USB data cable.
- Apply power to the deck and insert MiniDisc.
- For write operations, use a disk without write-protect or remove the protection.
- Before title/erase/upload, stop third-party programs that work with the same deck.

5.2. Connection

1	Click Connect The program will open a native Swift NetMD session.
2	Wait for your device model The found device will appear in the top panel.
3	Wait for TOC The program will ask for names, durations, codecs and capacity.
4	Check status TOC LOADED OK and a completed Track List means that the data is current.

If TOC does not appear

Stop transport, click Refresh TOC. If it doesn't help - Reset CONNECT, then Connect. Check the cable, power and disk availability.

5.3. Automatic updates

After successfully downloading, deleting, moving or writing names, the program reads TOC again. After the upload queue is completed, the attempts refresh; in case of failure, manual Refresh TOC is available.

5.4. What not to do while recording TOC

- Do not turn off the USB and the power.
- Do not remove MiniDisc.
- Do not run the second application NetMD in parallel.
- Do not press erase/delete/title buttons again until the previous operation has completed.

6. Playback and navigation

Element	Action	Peculiarities
Previous	Previous track	When playback is active, the level indicator follows the transport state.
Next	Next track	Track List automatically shows the active line.
Play	Start playback	The PLAY indicator remains active when transitioning between tracks.
Pause	Pause	The position is held; the real meter follows the actual input.
Stop	Stop	The foot can display general information about the disc.
Seek	Transition within a track	After moving, the transport stabilizes at a new position.
Eject	MD extraction	Use only after all writes/ TOC operations have completed.

VERIFIED	Playback, pause, stop, previous/next, seek and automatic follow track List was tested on a live deck in build 448 and saved in build 450.
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6.1. If the buttons are temporarily unavailable

Transport is blocked during operations that change the disk structure, download audio or read critical status. Wait for it to finish operations. Do not try to bypass the blocking by connecting again.

7. Titles, track order, deletion and CSV

7.1. Disc and track title

Editing is performed through the supported TOC workflow. Non-Latin characters may be transliterated for compatibility. After recording the program rereads TOC and shows the confirmed result.

- 1

Stop the conflicting operation
Do not edit during upload, erase or structural TOC write.
- 2

Open editing
Double-click the title or use the provided action.
- 3

Enter string
Check case, pattern and length.
- 4

Confirm
Wait for the recording and the final Refresh TOC.

Free space for UTOC	For mass renaming, it is recommended to leave Song Recognition around 03:00 free time. When the disk is almost full, the deck may reject title-heavy UTOC edits.
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7.2. Moving tracks

Drag the line using the drag-handle to the target position. The program shows pre-order, stops playback if necessary, sends a move command and rereads TOC . Do not perform this until confirmed. next move.

7.3. Deleting a track

Delete track changes the physical MiniDisc . Check the number and name in confirmation. A protected track/disc may be rejected by the deck itself.

Irreversible	Deleting a track and Erase Disc are not moving to the macOS Trash. Back up important material.
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7.4. Export CSV

- 1

Connect and Refresh TOC
Export only the current list.
- 2

Select CSV profile
ElectronWMD Web compatible MiniDisc CSV ; MD Record Studio and Tab-separated are also available.
- 3

Click Export CSV
Save the file to the selected folder.
- 4

Check your backup
Before bulk import, save the original CSV separately.

7.5. Import CSV

- 1

Prepare compatible CSV
Check the number of tracks and line order.
- 2

Click Import CSV
Select a file and view the change plan.
- 3

Check compliance
Do not apply titles to another disc with a similar number of tracks.
- 4

Confirm your entry
Wait for the batch operation and the final TOC refresh.

Matching risk	CSV does not contain a physical guarantee that this is the same MiniDisc. Check the disc name, quantity, order and duration.
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8. Upload audio to MiniDisc

In the interface, this workflow uses Add Files and Upload Queue. In this section, "recording" means USB upload via NetMD, not starting analog or optical recording on the deck.

8.1. Supported sources

Group	Extensions	Processing
PCM/uncompressed	WAV	Checking/preparing for the target mode.
Compressed/containers	MP3, M4A, MP4, AAC, FLAC, AIFF, AIF, OGG, Opus	Decoding to temporary WAV, then preparing.
Ready ATRAC	AEA, AT3, OMA	The container is read directly from the available upload path.

8.2. Order

- 1

Connect and TOC LOADED OK
Check the correct MiniDisc and free space.
- 2

Select SP / LP2 / LP4 / MONO
The mode applies to new tasks.
- 3

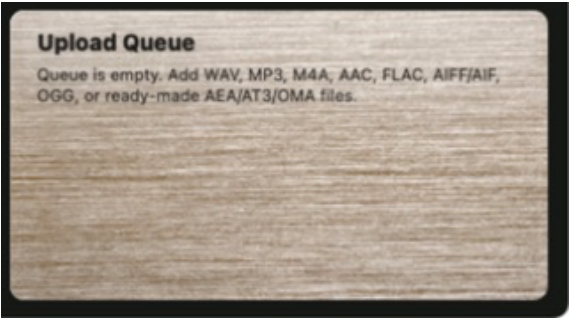
Click Add Files
You can select multiple sources.
- 4

Check your preparation
Codec, naming mode, title case, full-width and ReplayGain .
- 5

Check capacity
The program will warn you if the queue does not fit.
- 6

Start/wait for the queue
Files are processed and written sequentially.
- 7

Check TOC
After a successful queue, an automatic refresh is performed.



Rice. 5. The Upload Queue area is in a safe empty state.

Moving Source Files

Do not move, rename, or delete files after you have added them to queue until upload completes. The program must have access to the original URL.

8.3. Preparing titles

Naming mode	Result
Filename	File name without the need for correct embedded tags.
Title	Only metadata Title.
Album — Title	Album and title.
Artist — Title	Artist and title.
Title — Artist	Title and performer.
Artist — Album — Title	Artist, album, title.
Album — Artist — Title	Album, artist, title.
Title — Artist — Album	Title, artist, album.

8.4. ReplayGain

Use ReplayGain is used when preparing a source if metadata and pipeline allow. This does not replace mastering and does not guarantee the same subjective loudness of all recordings.

8.5. Full-width title editing

This option is for supported extended title scenarios. Compatibility varies by deck and symbols. For maximum portability use short Latin names.

8.6. Error in queue

The line with the error is not automatically repeated. Save Runtime Log, remove/correct the problematic source and add it again after checking format, file access, disk space and selected encoder.

9. Modes SP, LP2, LP4 and MONO

Mode	Codec/bitrate in the application	Relative capacity	Note
SP	SPS, 292 kbps	1×	Standard mode; preferred base option.
MONO	SPM, 146 kbps	≈2×	Mono; only suitable if it matches the material.
LP2	ATRAC3, 132 kbps	≈2×	Quality/compatibility depends on encoder and deck.
LP4	ATRAC3, 66 kbps	≈4×	Maximum duration, stronger compression.

9.1. USB audio upload format

Profile	Status	Usage	Risk
44.1 kHz / 16-bit	Base	Main SP-profile; use default.	Minimal compatibility risk.
48 kHz / 16-bit	EXPERIMENTAL	Only after testing on a specific deck.	Some decks may extend playback time.

Song Recognition	LINE-IN recognition requires 44 100 Hz (44.1 kHz). 48 kHz profile is not should be used for this input script.
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9.2. Encoder LP2/LP4

- Atracdenc: standard open-source encoder; the path ATRAC3 in the current project is marked as incomplete.
- Remote ATRAC Encoder: remote service that the application considers preferable for LP2 / LP4 ; requires a trusted Server Address and network.

Confidentiality	With Remote ATRAC Encoder, audio data can be sent to the configured server. Use only a trusted address and take into account the service policy.
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10. CD RIP

CD RIP reads audio CD via visible macOS optical drive, receives metadata and transfers selected tracks to MiniDisc.

10.1. Requirements

- Audio CD and compatible optical drive.
- Connected NetMD deck and recordable MiniDisc for direct transfer.
- Network for online metadata and AccurateRip synchronization.
- Enough free temporary space on your Mac.

10.2. Order

1	Insert CD Wait for the disk to appear in macOS.
2	Open CD RIP Select CD Drive.
3	Select Recording Mode SP / LP2 / LP4 / MONO for transfer to MD.
4	Reload CD Read the disc again if the list does not appear.
5	Select metadata source Automatic, CUETools DB, CD-Text, MusicBrainz or GnuDB.
6	Get Data Select the most accurate release by artist, album, year, catalog and disc number.
7	Check the titles Disc Title and track titles can be edited by double clicking.
8	Transfer Select the required lines, check Copy Disc Title to MD and run.
Public screenshot not enabled	CD RIP with a custom disk was deliberately not removed. Not included in the package added names of custom releases.

10.3. CD read mode

Mode	Purpose	Compromise
Fast	Minimum re-inspections.	Faster; worse for damaged/dirty disks.
Secure	Standard secure read via cd-paranoia.	Recommended balance.
Paranoid	Maximum check.	Slower on problem drives.

10.4. AccurateRip offset

Offset can be positive or negative and is shown with a sign (for example, +6 samples). Sync from AccurateRip looks for a drive model match. If the profile is not found, do not copy offset from another model without checking.

10.5. Metadata and multi-disc releases

Build 449 added support for disc number/disc count in metadata. For CD1/CD2 check the disc number, number of tracks, duration, label and catalog number. Automatic selects a source based on availability, but the final match confirmed by the user.

10.6. Copy Disc Title to MD

The option asks for confirmation before replacing the title MiniDisc with the album title CD. Disable it if the MiniDisc already uses its own collection name.

10.7. Risks CD RIP

- Burst/Fast may not detect all read errors.
- Metadata release may refer to a different publication.
- The problematic drive/disk may take a long time to re-read sectors.
- Removing a line from the transfer list does not remove the track from the source CD, but operations in the MiniDisc panel change the MD.

11. Song Recognition

Supported script build 450 is LINE-IN. It listens to the signal from the selected Core Audio input, recognizes tracks and batch applies new names to TOC.

11.1. Connection

1	Line-out deck → line-in interface Use a suitable cable and level without clipping.
2	44.1 kHz In Audio MIDI Setup, set the format to 44 100 Hz compatible.
3	Connect and TOC Recognition requires an active native Swift NetMD session.
4	Song Recognition Select Import Method LINE-IN.
5	Input Source Specify the Core Audio device.
6	Audition Use transport to check the track.
7	Recognize Start recognition of the selected strings.
8	Check and Apply New Titles Do not use dubious matches.

11.2. Title format

Field	Options
Track title format	Title; Album - Title; Artist - Title; Title - Artist; Artist - Album - Title
Letter case	UPPERCASE; Title Case; lowercase
Metadata release	Selecting a release and, if necessary, a separate disc title update

LIMITATION:
EXPLOITS

EXPLOITS disabled: native-only build does not contain old JS exploit runtime, and the factory ATRAC download stack has not yet been ported to Swift. Use LINE-IN.

11.3. Checking the results

- Compare artist/title/album with the actual audio.
- Disable lines that do not need to be renamed.
- Check the suggested disc title separately from the track titles.
- Leave around 03:00 free time for mass UTOC edits.
- After Apply New Titles, wait for the final TOC refresh.

VERIFIED

In build 450, two changed titles were written in 2.118 s; the final TOC was re-read. The actual result depends on the deck, network and line-in quality.

11.4. If recognition doesn't work

Symptom	Examination
Input Source is empty	macOS resolution, device connected, input channels available.
No signal	Line-out/line-in cable, gain, mute, selected device, 44.1 kHz.
No result	Volume/noise, start of track, network and recognition service.
Apply rejected	Free space, write-protect, active transport, current TOC.
EXPLOITS gray	Expected limit build 450; use LINE-IN.

12. Level indicator

12.1. Simulated

Simulates the VFD behavior of a deck. Build 446 fixed transport timing: meter stops at pause/stop and uses separate delays for seek and previous/next. This is a visual simulation, not a signal measurement.

12.2. Audio Input (Real)

- 1

Settings → Level Meter Source
Select Audio Input (Real).
- 2

Configure...
Select a device from Core Audio and a channel pair.
- 3

macOS Resolution
Allow audio input for the application.
- 4

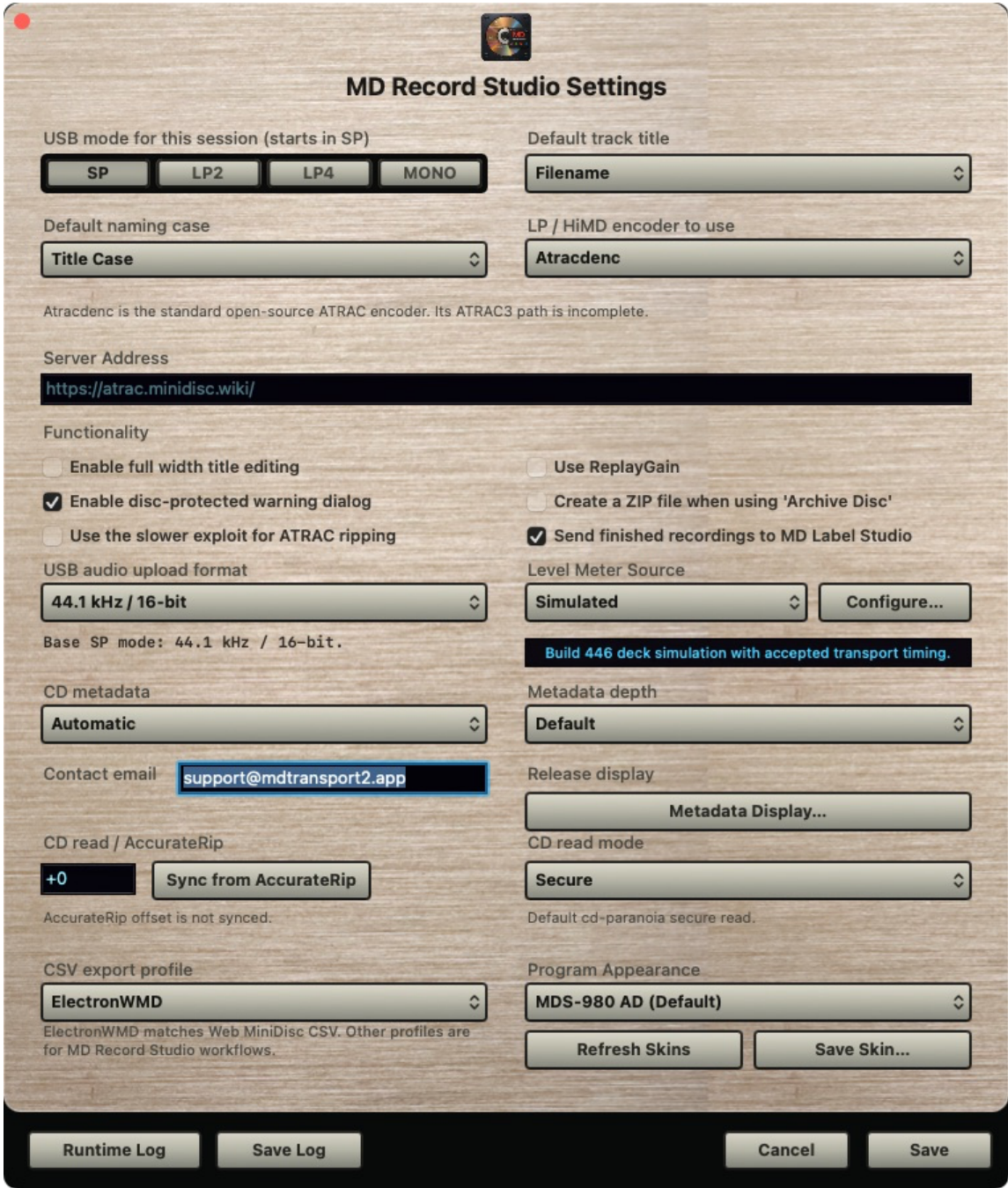
Test Input
Check L/R before saving.
- 5

Save
Go back to the main window and check the meter while playing.

Channel selection	Behavior
Hardware Inputs 1–2 — Stereo	Left and right physical inputs.
Loopback L–R	The internal loopback of the interface, if exported to Core Audio.
Hardware Input N — Mono to L/R	One channel is duplicated on L/R.
Loopback — Mono to L/R	One loopback channel is duplicated on L/R.

VERIFIED	MiniFuse 2 hardware inputs 1–2 and loopback are checked. List of devices and channel names are taken from Core Audio, and not from a hard-coded list.
Not a measuring device	The Meter is visually calibrated for the test circuit, but does not replace certified dBFS/VU meter.

13. All settings



Rice. 6. Full Settings build 450 window. Only the application window is shown.

13.1. Top Settings



Rice. 7. USB mode, naming, encoder, server, Functionality, USB format and Level Meter Source.

Settings	Purpose	Recommendation
USB mode for this session	SP / LP2 / LP4 / MONO ; the session starts at SP.	SP for basic compatibility.
Default track title	Template for naming new tasks.	Filename for unreliable tags.
Default naming case	UPPERCASE / Title Case / lowercase.	Select before adding batch.
LP / HiMD encoder	Atracdec or Remote ATRAC Encoder.	Remote is a trusted server only.
Server Address	Endpoint ATRAC/recognition services.	Don't change without trusting the source.
USB audio upload format	44.1/16 or experimental 48/16.	44.1/16 by default.
Level Meter Source	Simulated or Audio Input (Real).	Simulated without external input.

13.2. Functionality

- Enable full width title editing - extended title workflow.
- Use ReplayGain - use ReplayGain during preparation.
- Enable disc-protected warning dialog - additional protection warning.
- Create a ZIP file when using 'Archive Disc' - create a ZIP for archive workflow.
- Use the slower exploit for ATRAC ripping — saved setting; EXPLOITS recognition is still disabled in build 450.
- Send finished recordings to MD Label Studio - send the completed result to the design integration.

13.3. Bottom Settings

CD metadata

Automatic

Contact email

support@mdtransport2.app

CD read / AccurateRip

+0

Sync from AccurateRip

AccurateRip offset is not synced.

CSV export profile

ElectronWMD

ElectronWMD matches Web MiniDisc CSV. Other profiles are for MD Record Studio workflows.

Metadata depth

Default

Release display

Metadata Display...

CD read mode

Secure

Default cd-paranoia secure read.

Program Appearance

MDS-980 AD (Default)

Refresh Skins

Save Skin...

Runtime Log

Save Log

Cancel

Save

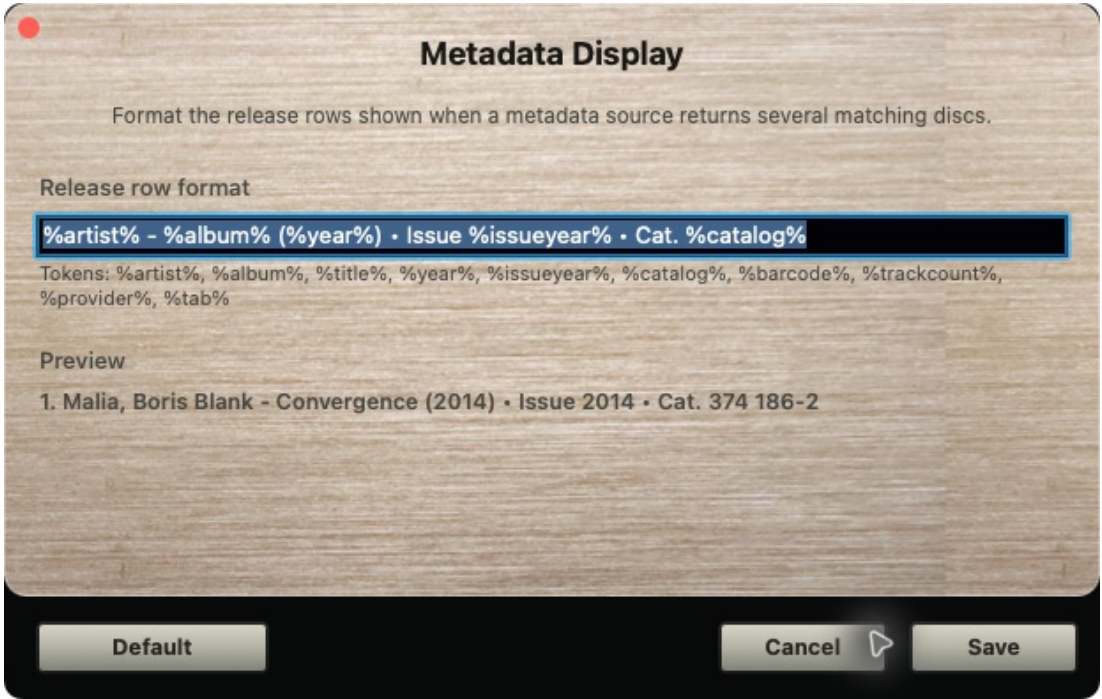
Rice. 8. Metadata, AccurateRip, CD read mode, CSV profile, appearance and Runtime Log.

Settings	Purpose
CD metadata	Automatic, CUETools DB, CD-Text, MusicBrainz, GnuDB.
Metadata depth	Fast, Default or Extensive - search depth/speed.
Contact email	Contact for services that use it; visible address is public support.
Metadata Display...	Release line format with tokens and preview.
CD read / AccurateRip	Signed drive offset and synchronization by model.
CD read mode	Fast, Secure or Paranoid.
CSV export profile	ElectronWMD, MD Record Studio or Tab-separated.
Program Appearance	MDS-980 AD, MDT-350, MDS-940, MD White Style, MD Ivory.
Refresh Skins	Re-read available skins.
Save Skin...	Save the current skin configuration.
Runtime Log / Save Log	View and save the diagnostic log.

13.4. Save and Cancel

Save saves the selected parameters; Cancel closes the window without applying it current changes. After changing Core Audio device or skin, check main window and rerun the script if the device was disconnected.

14. Metadata and display of releases



Rice. 9. Metadata Display: candidate string format and preview.

The format helps differentiate between reissues and multi-disc releases. Available tokens for artist, album, year, issue year, catalog, barcode, track count, provider and other fields. Preview shows a static example before saving.

14.1. Practical format

%artist% - %album% (%year%) • Issue %issueyear% • Cat. %catalog%

14.2. How to choose a release

- First the artist and the album.
- Then the number of tracks and duration.
- For collections - label, catalog number and barcode.
- For multidisc - disc number/disc count.
- The year of the original should not be confused with the year of the specific reissue.

Metadata is not evidence

A matching title does not guarantee the correct edition. Before recording titles, check the track list.

15. Skins, Runtime Log, About and MD Label Studio

15.1. Skins

Profile	Purpose
MDS-980 AD (Default)	Main cyan/VFD profile.
MDT-350	Alternative hardware profile.
MDS-940	A variant of another soundboard family.
MD White Style	Light profile.
MD Ivory	Ivory.

15.2. Runtime Log

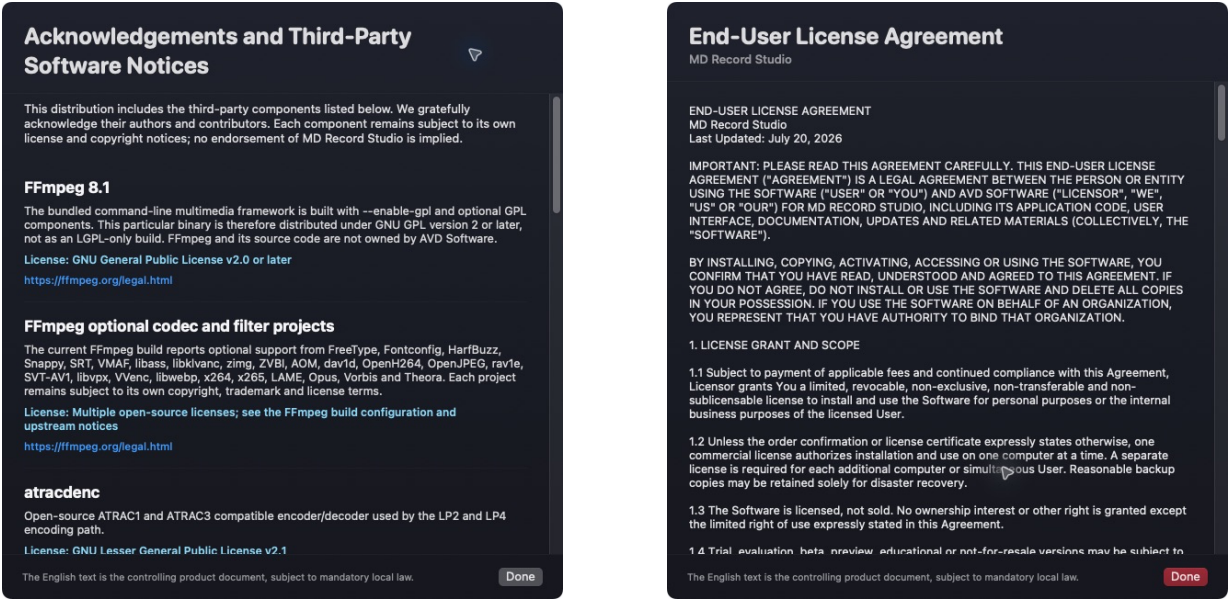
Runtime Log fixes connect, USB / TOC commands, upload phases, title writes, CD RIP, recognition and errors. Save Log saves a copy for diagnostic purposes. Before publishing, remove custom drive names, paths, etc. personal information.

15.3. About



Rice. 10. About: product, Universal support, version/build, Support, Acknowledgments and EULA.

15.4. Acknowledgments and EULA



Rice. 11. Third-party notices.

Rice. 12. End-User License Agreement.

Acknowledgments lists third party components and licenses. EULA describes the license, restrictions, liability and termination of use. Before distributing, make sure the notices bundle matches the bundle.

15.5. MD Label Studio

The Send to MD Label Studio button transfers the current disk structure/completed result in a compatible workflow. Integration is optional; no MD Label Studio does not block the main functions of NetMD.

16. Risks and safe work

Risk	Consequence	Prevention
Erase Disc	Complete loss of contents MiniDisc.	Check the disk and have a backup.
Delete track	Physically deleting a track.	Check number/name; do not confirm in haste.
CSV on another disk	Incorrect names.	Check quantity, order, duration.
Disabling USB when writing	Error TOC /incomplete operation.	Do not disconnect the power/cable until the final status.
Almost full disc	Deck rejects UTOC title edit.	Leave around 03:00.
Moving the source	Upload error.	Do not change the path until the queue is completed.
Remote encoder	Transferring audio to an external service.	Only trusted Server Address.
48 kHz experimental	Incorrect duration/stretch.	Test on a separate disk; base 44.1 kHz.
Fast CD read	Unnoticed errors.	Secure/Paranoid for important CDs.
Incorrect metadata release	Incorrect title/disc number.	Check edition details.
Parallel NetMD software	USB conflict.	One application controls the deck.
Unverified DMG	Risk of malicious bundle.	Check the source, build and signature.

The main rule

First read TOC and make sure the correct deck/drive is selected; Only then perform write and delete operations.

17. Typical working scenarios

17.1. Load album from files

1	Prepare the files Check tags, order and availability.
2	Connect Wait for TOC LOADED OK.
3	Select mode SP for quality/compatibility; LP2 / LP4 for duration.
4	Add Files Check naming and capacity.
5	Wait for upload Do not move files or disable USB.
6	Check TOC Check the titles, durations and order.
7	Export CSV Save the metadata backup.

17.2. Transfer Audio CD to MiniDisc

1	Insert CD and MD Check the drive and free space.
2	CD RIP Select drive, Secure and metadata release.
3	Check disc number Especially for CD1/CD2.
4	Select tracks Edit the names before transfer.
5	Transfer Wait for reading, encoding/upload and TOC refresh.

17.3. Rename existing MD via LINE-IN recognition

- 1

Connect line-out to interface
44.1 kHz, no clipping.
- 2

Select Audio Input (Real)
Check channels and meter.
- 3

Song Recognition → LINE-IN
Select Input Source.
- 4

Recognize
Listen and recognize the selected lines.
- 5

Apply New Titles
Check each line and leave some space.

18. Troubleshooting

Symptom	Reason/check	Action
WAITING FOR USB	There is no active USB session.	Power, data cable, disk, Reset CONNECT → Connect.
TOC is empty	The disk is not ready/transport is busy.	Stop → Refresh TOC ; reconnect USB.
Connect is inactive	Another operation is underway.	Wait for completion; do not run a second copy.
Add Files is not available	No session/ TOC or write in progress.	Connect, TOC, free space, wait for operation.
The queue doesn't fit	Not enough SP -equivalent time.	Delete jobs or select LP2 / LP4.
Upload row error	Format, path, encoder, USB.	Save Log; correct source; add again.
Title rejected	Write-protect, little space, transport.	Stop, remove protection, leave ≈03:00.
Meter is silent	Permission/input/channels.	Settings → Configure; Audio MIDI Setup; macOS resolution.
Invalid sample rate	The device is exporting an unsupported format.	Check nominal rate and channel pair; 44.1 kHz for recognition.
Recognition does not give title	No signal/network/bad fragment.	Check meter, gain, 44.1 kHz, service.
CD is not visible	The drive/disk is not recognized.	Check Finder/Audio CD, Reload CD, other drive.
AccurateRip not found	No model/network profile.	Do not substitute offset for another model without checking.
After the operation the old list	Auto refresh did not complete.	wait; click Refresh TOC manually.

18.1. What to include in a bug report

- Version/build from About.
- Deck model and connection method.
- Selected mode SP / LP2 / LP4 / MONO.
- Exact step, expected and actual result.
- Saved Runtime Log after deleting personal data.
- Screen only the window/required area of the application, without the desktop.

19. Checks before and after completion

19.1. Before upload/rename/delete

- ☐ Correct deck and correct MiniDisc.
- ☐ TOC LOADED OK and the list is current.
- ☐ The disc is not write protected.
- ☐ There is enough free space; for title-heavy - around 03:00.
- ☐ The original files are on a stable disk and will not be moved.
- ☐ The desired mode and encoder are selected.
- ☐ There is no other application that controls NetMD.

19.2. After upload/ CD RIP / Song Recognition

- ☐ Queue completed without error row.
- ☐ TOC re-read.
- ☐ Titles, codecs and durations have been verified.
- ☐ The track order is correct.
- ☐ The beginning and end of several tracks are played.
- ☐ CSV metadata backup is saved if necessary.
- ☐ The disk is ejected only after writes complete.

19.3. Before sending the log/screenshot

- ☐ No personal paths, email, private drive names.
- ☐ The screen shows only the application or the desired area.
- ☐ Desktop, Dock, menu bar and other windows were not included in the frame.
- ☐ Version/build and functional status are visible if this is important.

20. Technical status of build 450

Region	Status
Universal metadata and arm64/x86_64	VERIFIED
Deep/strict code-signature validation	VERIFIED
Launch of /Applications/MD Record Studio.app on Apple Silicon	VERIFIED
Native build 450 Connect/ TOC and batch title write	VERIFIED on live Sony NetMD deck
Build 448 playback, seek, TOC follow, MiniFuse meter	VERIFIED ; saved in build 450
MiniFuse 2 hardware inputs 1–2 and loopback	VERIFIED
x86_64 runtime on a physical Intel Mac	NOT TESTED
All NetMD models	NOT TESTED in full
Public connected/upload/ CD RIP /recognition screenshots	NOT CAPTURED
Developer ID and notarization	NOT VERIFIED
DMG build 450	AVAILABLE; Universal and Native installers
EXPLOITS Song Recognition	LIMITATION: disabled
48 kHz / 16-bit	EXPERIMENTAL

20.1. Installer packages

Universal: MD Record Studio V1.1 build 450 Universal.dmg
Native: MD Record Studio V1.1 build 450 Native.dmg
Each installer is distributed with its own SHA-256 checksum file.

Verify before installation	Use the checksum stored next to the selected build 450 installer. Universal contains arm64 and x86_64; Native contains arm64 only.
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Work with MiniDisc calmly and verifiably

Short formula	Connect → TOC LOADED OK → check disk → perform one operation → wait for Refresh TOC → check the result → only then move on.
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If the function depends on the specific deck, optical drive, Core Audio interface or network service, treat the first launch as control test on copies of data.

Support: support@mdtransport2.app