Table of Contents

LTI Capture — User's Manual

Version 1.0 Laboratory Technologies, Inc. Committed to Excellence Since 1983

Table of Contents

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1. Welcome

Thank you for purchasing **LTI Capture**, the digital reporting companion for your Laboratory Technologies gamma counter. This manual walks you through everything from unboxing to advanced features. It's written to be read once front-to-back, then kept beside your counter as a reference.

If you only have five minutes right now, skip to the **INSTALL.md** quick-start on this same USB drive. Come back to this manual when you have time to explore the rest.

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2. What LTI Capture Does

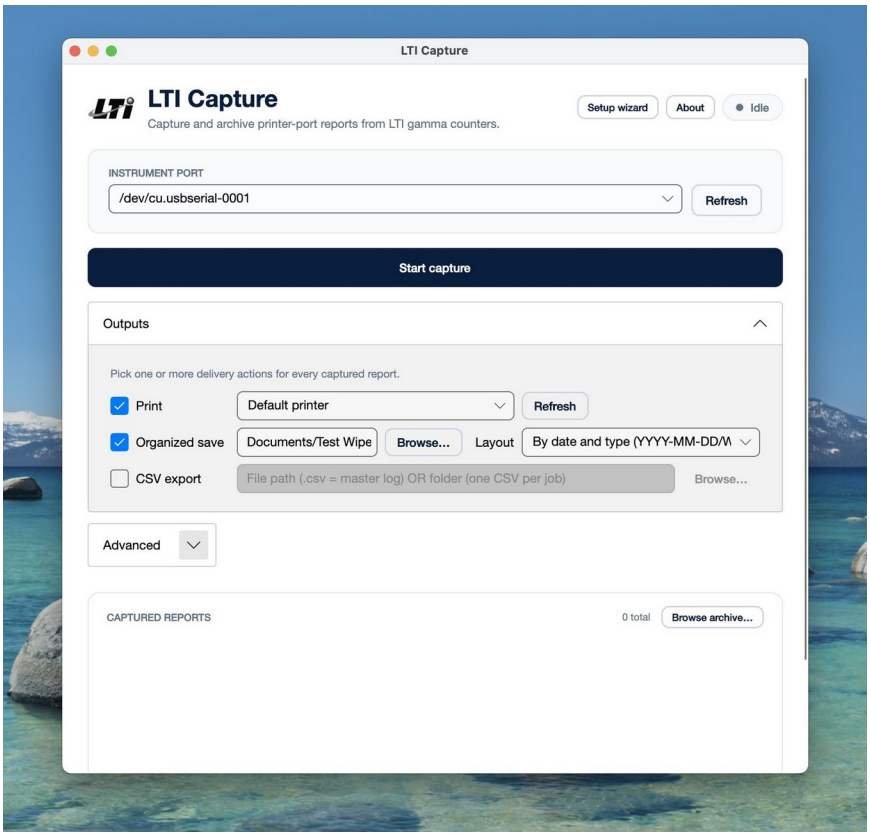

Figure 1. The LTI Capture main window — what you see after launch.

For decades, LTI gamma counters have produced printed reports on attached dot-matrix or thermal printers. Those printouts are authoritative records — but they are paper. Sharing them means photocopying or scanning. Archiving them means filing cabinets. And once printer parts become hard to source (dot-matrix ribbons, specific Epson models, parallel cables), the whole workflow can grind to a halt over a $40 consumable.

LTI Capture replaces the printer with software.

It connects to your gamma counter's printer port through a standard USB-to-Serial cable. Every report the counter would have printed is instead received by LTI Capture, parsed into a properly formatted PDF, named with full context (instrument, report type, samples, isotope, timestamp), and routed to wherever your lab needs it — your office printer, an organized folder on your hard drive, a network share, or a CSV file for your LIS / LIMS.

The original report comes through pixel-for-pixel intact. Nothing is summarized, abridged, or interpreted. LTI Capture is a *reproduction* of your instrument's output, not a re-derivation of it.

Supported instruments:

- Wiper Gold (all firmware revisions)

- Multi-Wiper
- Multi-Wiper HE
- Genii / Genii HE
- Gamma 1

Supported report types:

Wipe tests (numbered or stylized), calibration summaries, daily QC, isotope spectra (Chi-Square, Background, AutoSpect DPM), isotope identification, decay calculations, iterative counts, volume correction, library data, and unrecognized print blocks (captured as generic "Print Screen" PDFs so nothing is ever lost).

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3. What's in the Box

Your LTI Capture shipping package contains:

- **USB flash drive** (this one) with installation files for macOS, Windows, and Linux
- **USB-to-Serial cable** (FTDI chipset, DB9-male connector to USB-A)
- **Printed Certificate of Authenticity** showing your unique installer ID and the activation budget purchased
- **Printed IT Approval Bundle** for handing to your IT department if they require review before installation

All software files are also stored as digital copies on this USB drive. You can keep the USB drive as a permanent backup, or wipe it once everything is installed. We recommend keeping it stored with the Certificate of Authenticity in case you ever need to reinstall.

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4. System Requirements

LTI Capture is a small application that runs on modern desktop operating systems with minimal demands.

Operating System (any one of):

- macOS 10.15 (Catalina) or newer — Apple Silicon or Intel
- Windows 10 or newer (64-bit)
- Linux desktop with glibc 2.31+ (Ubuntu 20.04+, Debian 11+, Fedora 33+, or equivalent)

Hardware:

- One free USB port
- At least 200 MB of free disk space (the application itself is ~50 MB; captured reports accumulate over time)
- Display capable of 1024×768 or higher

Counter side:

- Your LTI counter's printer port configured to RS-232 serial output. All modern LTI counters ship with serial-port capability — see your instrument's manual to confirm.
- For printer port baud rate: LTI Capture defaults to **38400 baud, 8N1, no flow control**, which matches the LTI default. If your counter is configured for 9600 or 19200, change the baud rate in LTI Capture to match (Setup wizard → Connect, or the Port settings dropdown on the main window).

Network:

None required. LTI Capture never connects to the internet during normal operation. Activation is by email exchange, not network call-home.

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5. Installation

macOS

1. Plug the USB drive into your Mac.
2. Open the **macOS** folder.
3. Drag **LTI Capture.app** into your **Applications** folder.
4. Double-click to launch. The first time, macOS may say "LTI Capture cannot be opened because it is from an unidentified developer." This is normal for software that doesn't come through the Mac App Store. To open it the first time:
   - **Right-click** (or Control-click) **LTI Capture.app**
   - Choose **Open** from the pop-up menu
   - In the dialog, click **Open**
5. Subsequent launches open normally — no warning.

Windows

1. Plug the USB drive into your PC.
2. Open the **Windows** folder.
3. **Copy the entire folder** somewhere permanent on your computer — for example, `C:\Program Files\LTI Capture\` or `C:\Users\YourName\LTI Capture\`.
4. Inside that copied folder, double-click **LtiCapture.exe**.
5. Windows SmartScreen may say "Windows protected your PC." This is normal for software that hasn't been digitally signed by a major publisher. To proceed: click **More info**, then **Run anyway**. You only need to do this on the first launch.
6. Optional: right-click **LtiCapture.exe** → **Send to** → **Desktop (create shortcut)** for easy access.

Linux

1. Plug the USB drive into your Linux machine.
2. Open the **Linux** folder.

3. Copy the entire folder to a permanent location — ~/lti-capture/ or /opt/lti-capture/ are both fine.
4. Open a terminal in that folder and run:
   ```
   chmod +x LtiCapture
   ./LtiCapture
   ```
5. To add a desktop shortcut, create a .desktop file pointing at the binary. Most Linux desktop environments make this easier through their menu editor.

A note about USB drives: The USB drive is a delivery medium, not a runtime container. LTI Capture runs from your hard drive after installation. You can unplug and put away the USB drive once the software is installed.

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6. First Launch — The Setup Wizard

The first time you launch LTI Capture on any new computer, a **setup wizard** walks you through the four steps below. You can also return to the wizard later by clicking **Setup wizard** in the top-right corner of the main window.

Page 1: Welcome

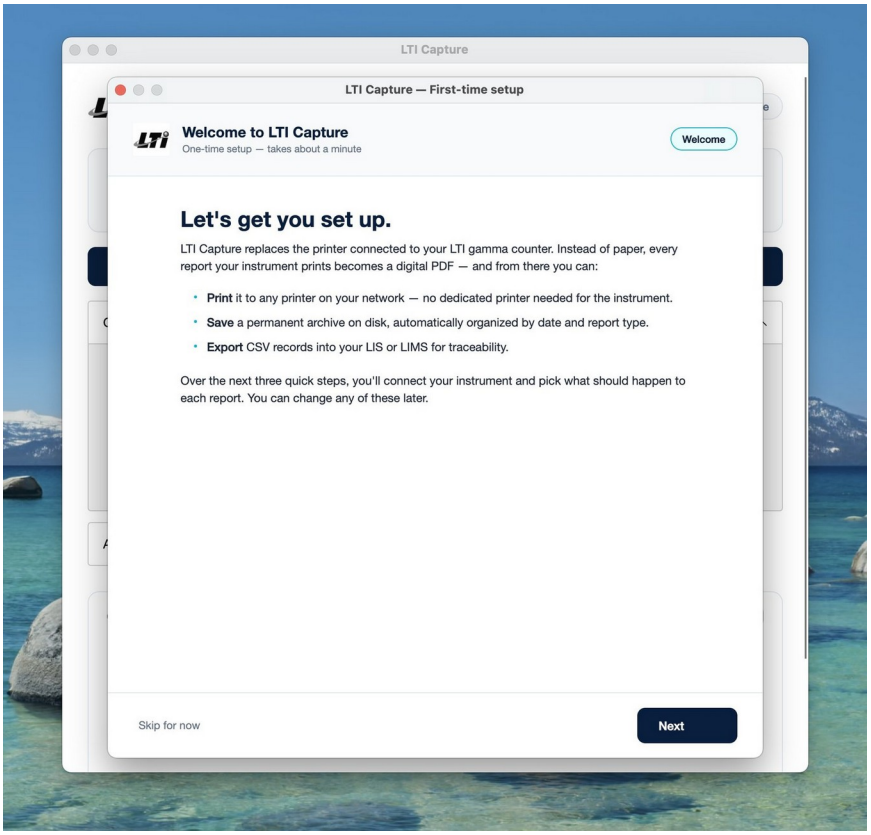

Figure 2. First-time setup wizard — Welcome screen.

An overview of what LTI Capture does and the four steps to come. Click **Next**.

Page 2: Connect your instrument

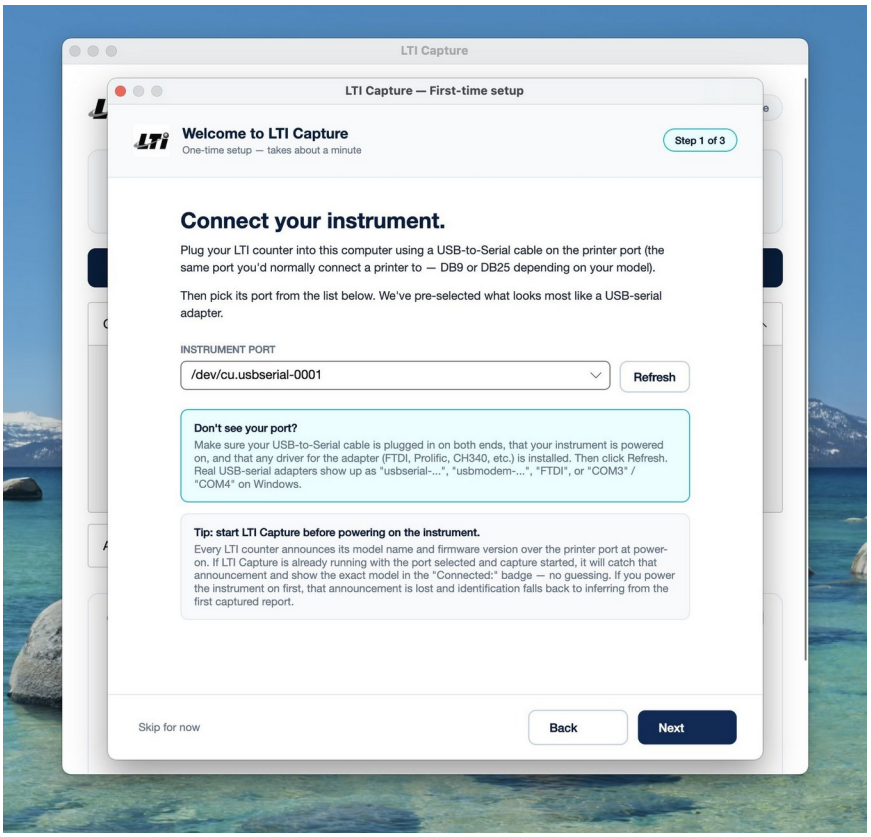

Figure 3. Setup wizard, Step 1 — pick the USB-to-Serial port your counter is connected to.

This page helps you connect physically and verify the serial link to your counter.

1. **Find the printer port on the back of your counter.** On Wiper Gold and Multi-Wiper, look for a DB-25 or DB-9 connector labeled "Printer" or "Serial Out." On Genii / HE and Gamma 1, look for the dedicated printer port (Genesys counters have both parallel and serial; use the serial one).
2. **Plug the USB-to-Serial cable from the shipping box** into the counter's printer port and into a free USB port on your computer.
3. **Click the Refresh button** to populate the Port dropdown. LTI Capture pre-selects the most-likely USB-serial adapter (look for "USB-Serial", "FTDI", "Prolific", etc.).
4. **Verify the baud rate.** The default is **38400**. This matches the LTI factory default. If you have changed your counter's printer baud rate, set this to match.
5. **Power on the instrument.** When the counter boots, it prints a self-identification banner like LABORATORY TECHNOLOGIES INC WIPER GOLD vNN. LTI Capture reads that banner and shows the detected instrument name in green on this page. This is the signal that the link is working end-to-end.

If you don't see a banner: confirm the cable is plugged in fully, confirm the baud rate matches, confirm the counter is configured to print to the serial port (not parallel), and click Refresh on the Port dropdown to re-scan.

Click **Next** when the banner is confirmed.

Page 3: Choose your outputs

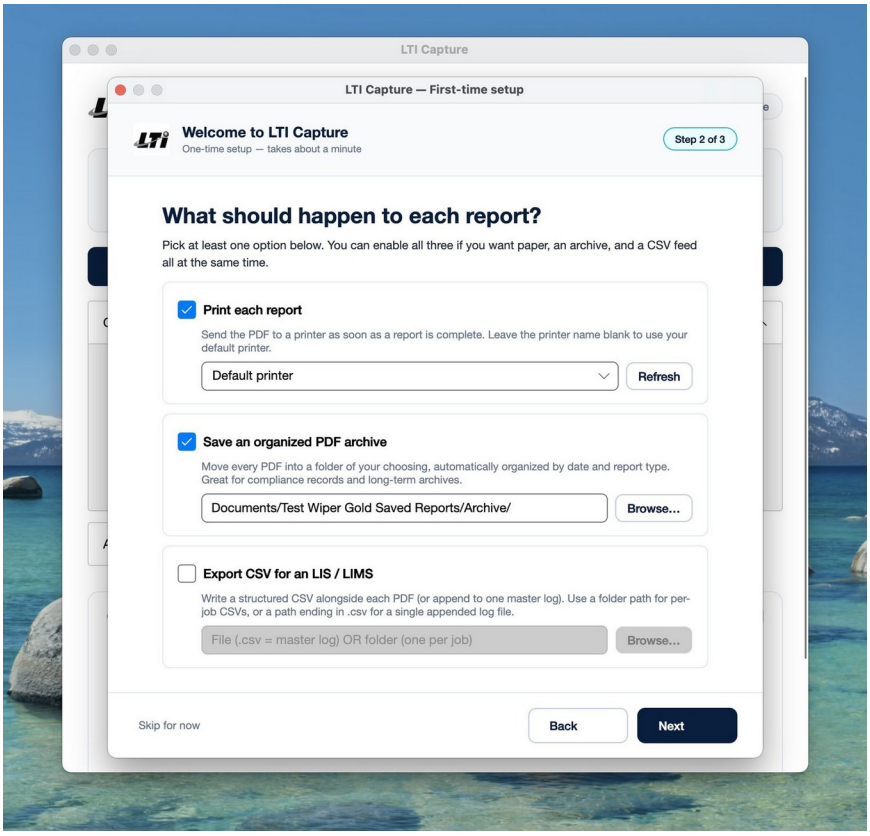

Figure 4. Setup wizard, Step 2 — pick what should happen to each captured report.

Pick one or more places for captured reports to go. See section **10. Output Delivery Options** below for full detail on each.

The three options are:

- **Print** to any printer your computer can see (USB, network, AirPrint, etc.)
- **Organized save** to a folder, with date-organized subdirectories
- **CSV export** for LIS / LIMS integration

You can pick more than one — for example, "Print to my office printer AND save to the lab share drive."

Click **Next**.

Page 4: Register your copy

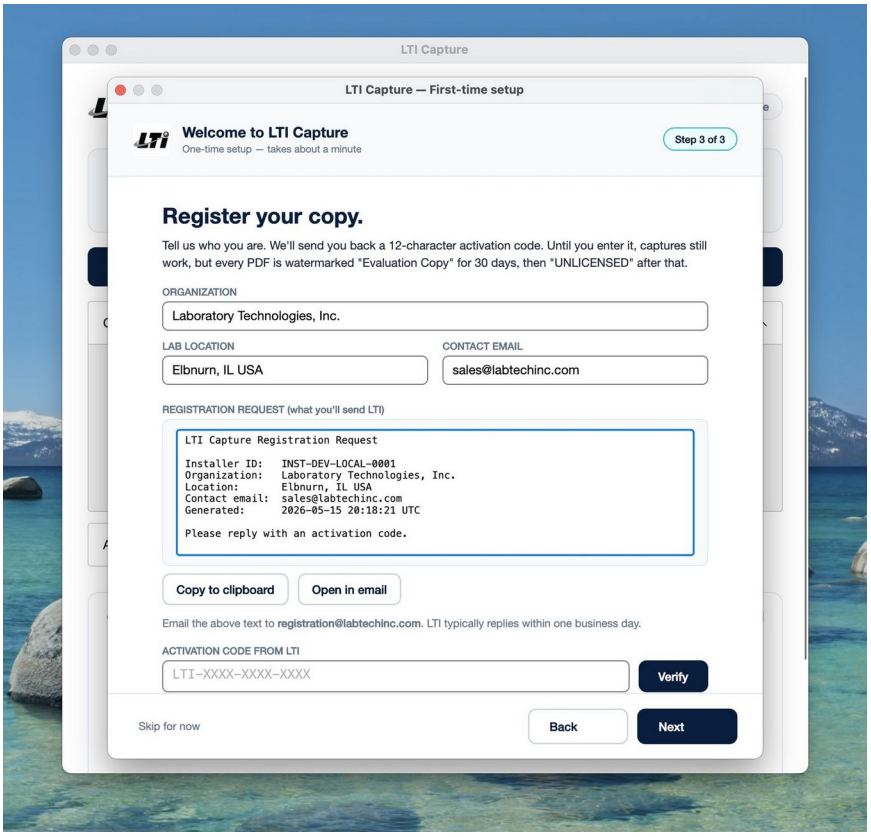

Figure 5. Setup wizard, Step 3 — fill in your organization and copy the registration request to send to LTI.

LTI Capture starts in **30-day evaluation mode**. All features work fully during evaluation. PDFs are stamped "Evaluation Copy" in the footer until you activate.

To activate:

1. Fill in your **organization name**, **lab location**, and **contact email** on this page.
2. Click **Copy to clipboard** or **Open in email** to grab the registration-request text.
3. Email it to **registration@labtechinc.com**.
4. LTI typically replies within one business day with your **12-character activation code** (format: LTI-XXXX-XXXX-XXXX).
5. When the code arrives, return to this page (Setup wizard → Register), paste the code into the **Activation code from LTI** field, and click **Verify**.
6. The green "Licensed to [Organization]" indicator appears, and every captured PDF from now on shows your license footer.

You can use LTI Capture immediately — you do not need to wait for activation. Captures during evaluation are fully usable records; they simply have the "Evaluation Copy" watermark on the PDF footer.

Click **Done** to leave the wizard and start using the main window.

7. Activating Your License

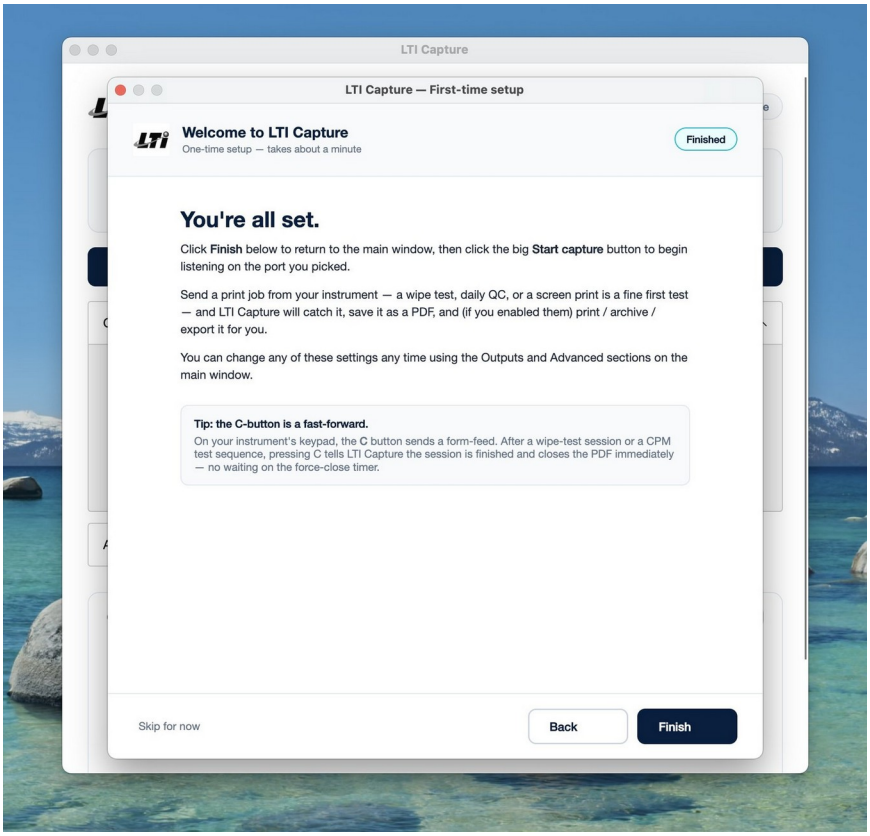

Figure 6. Wizard wrap-up — "You're all set" finish screen. Click Finish to return to the main window.

The activation philosophy

LTI Capture is licensed **per organization**, not per workstation. Once you have your activation code, you can install LTI Capture on as many computers in your lab as your activation budget allows. Most single-counter customers receive a 1-activation license; multi-instrument or distributor customers receive more.

The activation code is yours to keep. If you reinstall on a new computer (replacement PC, lab move, etc.), you can re-use the same code — provided you haven't exceeded your budget.

What to email when you register

The Register page generates this text for you. You can also write it yourself if email automation is unavailable:

Subject: LTI Capture activation request — [Your Organization]

Installer ID: INST-2026-XXXX-XXXX-XXXX (printed on your Certificate of Authenticity)

Organization: [Your full organization name as it should appear
on licensed PDFs]
Lab location: [City, State / Country]
Contact: [Your name and email]

Counter model(s): [Wiper Gold / Multi-Wiper / Genii / etc.]
Counter serial(s): [if known]

Send to **registration@labtechinc.com**. We respond by email with the 12-character code.

What the activation code looks like

Activation codes have the format LTI-XXXX-XXXX-XXXX where each X is a letter or digit. Codes are case-insensitive and contain no easily confused characters (no O, 0, I, 1, etc.). Type the code into the wizard exactly as it appears in the email — the dashes are optional.

What "Licensed to" means on the footer

Once activated, every captured PDF has a footer like:

Licensed to [Your Organization] | Captured by LTI Capture v1.0

This is the chain-of-evidence the PDF carries with it. If you print or email the PDF, the footer travels with the document.

Evaluation expires after 30 days

After 30 days of unactivated use, LTI Capture continues to capture reports normally, but the PDF footer changes from the small gray **Evaluation Copy** stamp to a larger **UNLICENSED COPY — Not for Regulatory or Audit Use** stamp in bold red, centered across the bottom of every page. This is the visual signal that the document is not suitable for inclusion in a records binder, audit submission, or regulatory file.

All capture functions continue to work without interruption. Activating the software removes the watermark from all *future* captures — historical PDFs keep the watermark that was present at time of capture, by design (they are records of the period when the software was not yet licensed, and that fact travels with the document).

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8. The Main Window — Tour

After the wizard, you're in the main window. Here's what each piece does, left to right and top to bottom.

Top bar

- **Connection status**: a colored dot. Green means a serial link is active and the instrument banner has been received. Yellow means the port is open but no banner yet (waiting for the counter to boot or send a report). Red means the port is unavailable or has disconnected.

- **Instrument name**: e.g., "Wiper Gold" — populated from the instrument's self-identification banner.
- **Port dropdown**: select or refresh the USB-serial port if you change cables or move to a different USB hub.
- **Start capture** / **Stop capture** button.
- **Setup wizard** button (returns to the wizard for changes).
- **About** button (top-right corner).

Reports table (middle)

This is the running log of reports captured in the current session — one row per report. Columns:

- **Time**: when the report finished capturing.
- **Instrument**: the source counter (banner-detected).
- **Report type**: e.g., "Wipe Test (W01–W08)", "Calibration Summary, I-125", "Daily QC", "Background Spectrum".
- **Filename**: where it was saved (or "(printed)" / "(CSV exported)").
- **Actions**: Open, Re-print, **Flag**, Show in folder.

Rows highlight in red when flagged for supervisor review.

Footer

- **Captured reports today**: a running tally.
- **Archive**: button to open the **Archive Browser** (see section 11).
- **Diagnostics**: small button that opens the About dialog (also accessible from the top-right corner).

The flag banner

When any report in the table is flagged for supervisor review, a red banner appears across the very top of the window:

⚠ N report(s) flagged for supervisor review. Click to resolve.

Clicking this banner opens the supervisor resolution dialog — see section 12 below.

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9. Capturing a Report

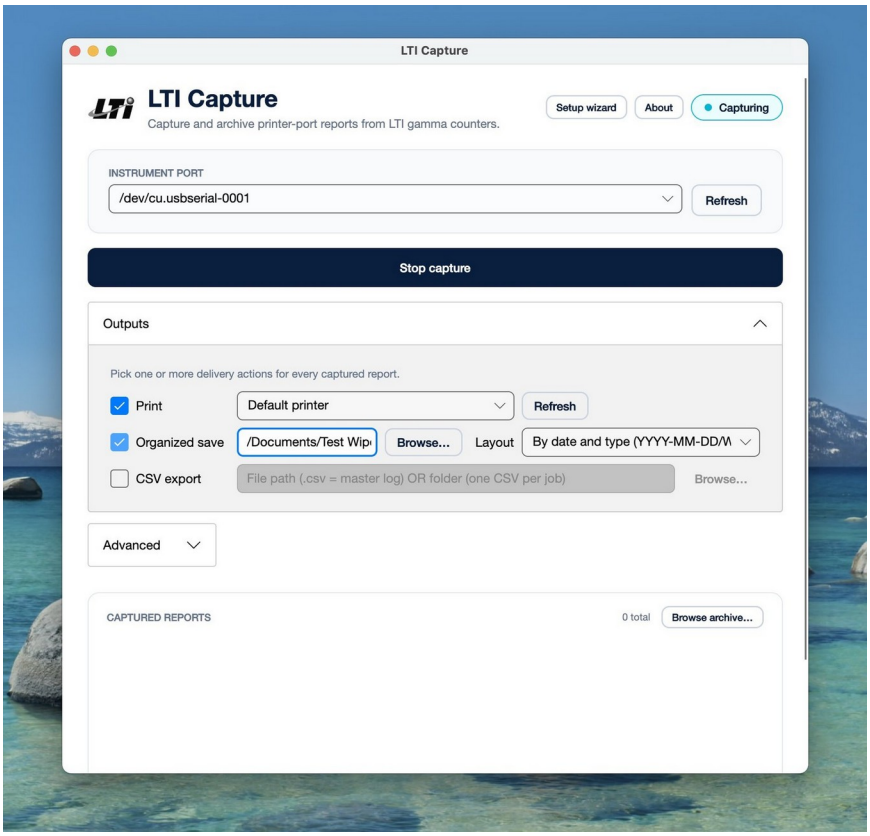

Figure 7. Main window in active capture mode. Status badge reads "Capturing", and the button toggles to "Stop capture".

The simplest workflow:

1. Make sure **Start capture** is active (the button reads "Stop capture" when capture is running).
2. Run any report on your counter — a wipe test, calibration, daily QC, isotope ID, etc.
3. LTI Capture catches the print stream, identifies the report type, generates a properly named PDF, and routes it to your configured outputs.
4. A new row appears in the Reports table within ~1 second of the counter finishing printing.

You do **not** need to interact with LTI Capture during a normal capture. Run the counter exactly the way you always have. The software is passive.

Filename conventions

LTI Capture names PDFs to be self-describing. Examples:

WipeTest_HotLab_W01-W08_2026-05-15_14-32-17.pdf
CalibrationSummary_I-125_2026-05-15_09-15-04.pdf
DailyQC_Co-57_2026-05-15_07-50-22.pdf
ChiSquare_Cs-137_2026-05-15_11-07-43.pdf

Background_Cs-137_2026-05-15_11-12-09.pdf
IterativeCount_I-125_2026-05-15_15-44-31.pdf

The naming logic uses the report's own internal labels (isotope names, sample IDs, well numbers) — so the filename gives you enough to identify the report without opening it.

What about reports that don't fit a known type?

LTI Capture stores those as PrintScreen_<timestamp>.pdf. You never lose data. Generic captures still go to your configured outputs and appear in the archive. Over time, as we add support for additional report types, future updates will recognize and re-label them automatically.

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10. Output Delivery Options

LTI Capture supports three delivery paths. You can enable any combination of the three. Configure them on the **Choose your outputs** wizard page, or from the gear icon on the main window.

Print

Sends every captured report to a printer that your computer can see. This is the closest replacement for the original dot-matrix workflow — a captured report is printed exactly the way the counter's printer would have printed it.

- **Target printer**: any printer in your operating system's printer list. USB, network, AirPrint, share-by-Bluetooth, whatever your OS supports.
- **Paper size**: default is Letter (8.5×11). Adjustable.
- **Margins**: default is 0.5" on all sides.
- **Reports go straight to the printer queue** with no print dialog — set-and-forget.

This option is recommended when you want a paper trail identical to the old workflow (the printer just changed shape).

Organized save

Saves every report as a PDF in a folder structure organized by date. Example:

```
<Your chosen folder>/
├── 2026-05-15/
│   ├── WipeTest_W01-W08_14-32-17.pdf
│   ├── CalibrationSummary_I-125_09-15-04.pdf
│   └── DailyQC_Co-57_07-50-22.pdf
├── 2026-05-14/
│   ├── WipeTest_W01-W08_14-30-44.pdf
│   └── …
└── …
```

- **Folder location**: any folder you can write to. Local hard drive, network share, USB-attached storage, cloud-synced folder (Dropbox, OneDrive, iCloud, Box, etc.).
- **Date-stamping**: by report-capture date, in YYYY-MM-DD format for filesystem-friendly sorting.

This option is recommended for any lab keeping a digital archive or backing up records into IT systems.

CSV export

Writes a structured CSV row for every captured wipe test or batch of counts, suitable for ingestion by a LIS, LIMS, or spreadsheet workflow.

- **Target file**: a single CSV that accumulates rows over time, OR a new CSV per report (configurable).
- **Columns**: capture-timestamp, instrument-model, report-type, isotope, samples count, sample IDs, raw CPM values, derived values (DPM, decay-corrected, etc.).
- **Delimiter**: comma by default; can be switched to tab or semicolon for European spreadsheet conventions.

This option is recommended when downstream automation consumes the data — for example, hot-lab software that totals daily contamination counts across multiple instruments.

Combinations

Most labs use **Print + Organized save** as the default combination: a printed copy lives in the binder by the counter, and a digital archive is built up automatically. CSV export is typically added later when LIS integration is planned.

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11. The Archive Browser

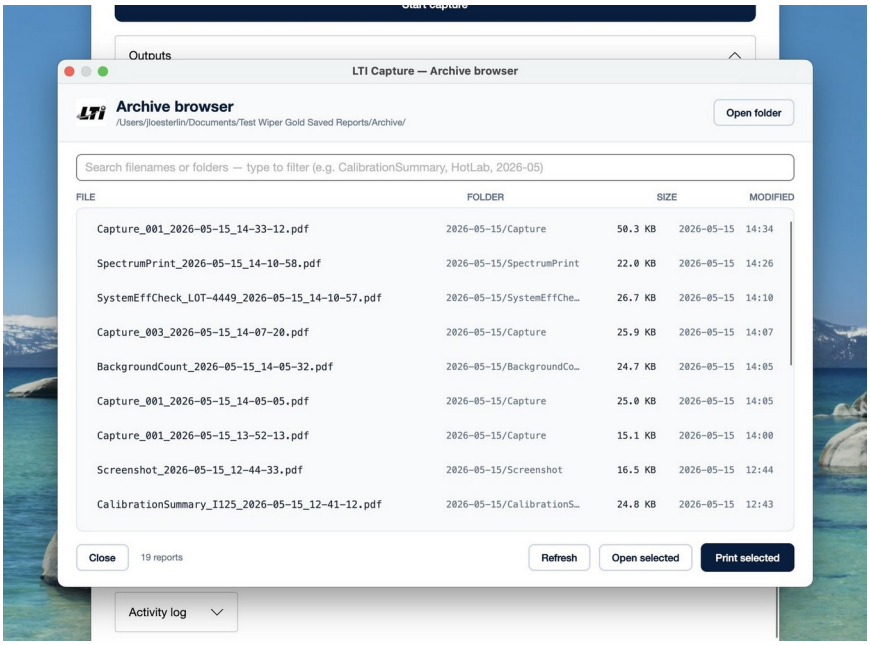

Figure 8. The Archive Browser — search, sort, and reprint any captured report from your organized PDF archive.

Click **Browse archive…** in the footer (or **Archive** in the main menu) to open the Archive Browser.

The browser shows every PDF in your configured archive folder, across all dates. Use it to:

- **Find a historical report** by filename, date fragment, or folder name (the search box at the top filters live as you type).
- **Open** any report in your operating system's default PDF viewer.
- **Re-print** one or more reports — useful when a printer was offline at capture time, or when a supervisor wants a paper copy of an older record.
- **Show in folder** to jump to the file location in Finder / Explorer.

Search tips

The search box is a substring match against the full path of every file. Useful patterns:

- 2026-05 finds everything in May 2026.
- Wipe finds all wipe tests.
- I-125 finds all reports involving I-125.
- HotLab finds anything where "HotLab" appears in a custom label or in a folder name.

Selecting multiple reports

Click the first report, then Shift-click the last to select a contiguous range, or Ctrl/Cmd-click individual rows for a manual selection. Then click **Print selected** to send all of them to the printer in one batch.

12. The Supervisor-Review Workflow (Flag for Review)

LTI Capture has a built-in workflow for the everyday situation where a technician runs a report and isn't sure whether it passes — they need a supervisor, RSO, or laboratory director to look at it before it's filed.

The technician's side

On the row of any captured report in the main Reports table, click the **Flag** button. Optionally type a short note explaining what you'd like the supervisor to look at ("contamination on wipe W06 — possible spill?"). Click **Flag for review**.

The row turns red in the table. A red banner appears across the top of the main window:

⚠ 1 report flagged for supervisor review. Click to resolve.

If multiple reports are flagged, the banner shows the count.

The supervisor's side

When the supervisor or RSO comes to the workstation, they click the red banner. A dialog opens listing every flagged report with the technician's notes. For each flagged report, the supervisor chooses one of:

- **Authorize** — the result is approved as-is. Optional comment field.
- **Re-run** — the test should be repeated. Comment field (recommended) for the reason.
- **Other** — free-form resolution. Comment field is required.

The supervisor enters their **printed name** (the dialog remembers it across sessions on the same machine so they don't re-type every time). Then **Resolve**.

What the audit page looks like

The resolution is appended as a new page at the end of the original PDF — the **Flag and Resolution Record** page. It shows:

- The technician's flag note (verbatim)
- The supervisor's resolution choice (Authorize / Re-run / Other)
- The supervisor's comment
- The supervisor's printed name
- Signature line (for ink signature if needed)
- Date and time of resolution
- A unique audit-record ID

This page becomes a permanent part of the PDF. It travels with the document wherever it goes — emailed to a regulator, printed for a regulator inspection binder, archived to a network share, or filed in your hot-lab folder.

The original report pages are not modified. The audit page is purely additive.

Why this matters

Many labs have an informal version of this workflow already — a sticky note on the printout, a verbal "ok looks good," a margin scribble. None of those survive scanning, emailing, or filing. The LTI Capture flag workflow turns the sticky-note moment into a permanent, signed page on the PDF.

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13. The About Dialog and Diagnostics

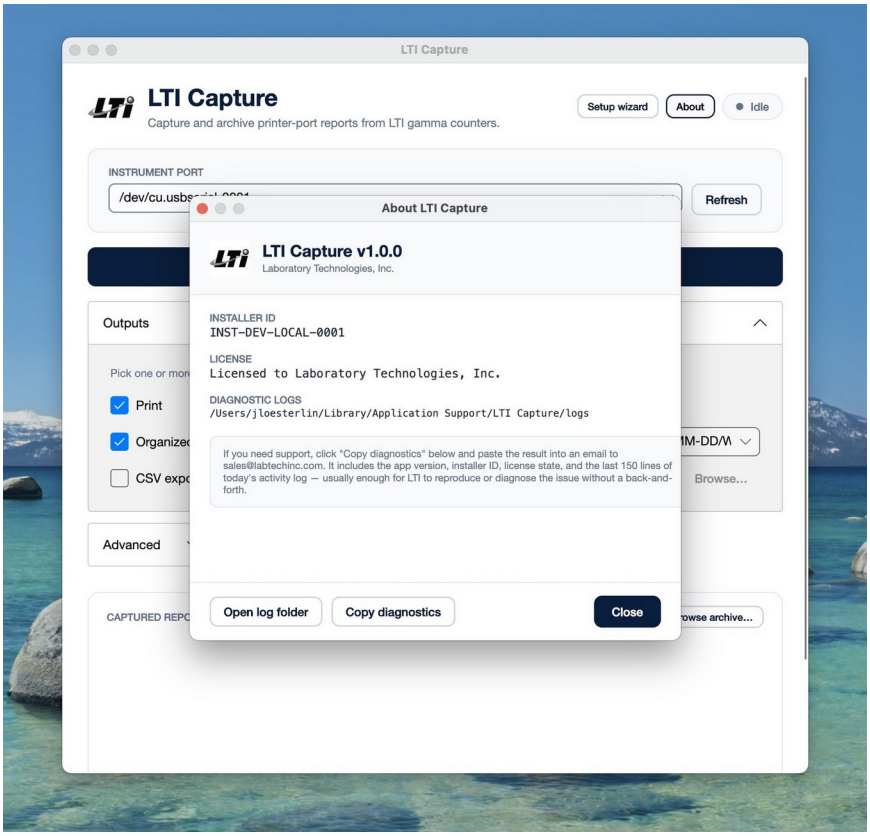

Figure 9. About dialog showing version, Installer ID, license state, and the diagnostics export button.

Click **About** in the top-right of the main window to open the About dialog. This dialog shows:

- LTI Capture version number (current: **1.0**)
- Build date
- Your installer ID
- Activation status (Evaluation / Licensed)
- The organization name on your license
- A scrolling **Diagnostic log preview** showing the last ~150 lines of LTI Capture's activity log

Copy diagnostics

The **Copy diagnostics** button copies a snapshot of the diagnostic log to your clipboard. Paste it into an email when contacting LTI support — it gives us almost everything we need to investigate an issue without back-and-forth questions.

The diagnostic log contains:

- Version and build info
- Operating system version
- Active port and baud rate
- Recent connection events (port opened, banner detected, errors)
- Recent capture events (report type, sample count, output destinations)
- Any errors and the full call-stack for diagnostic purposes

The diagnostic log does **not** contain the contents of captured reports. It contains metadata about the captures — when they happened, what type they were, where they went — but never the patient/wipe-test data inside.

Log files are stored locally on your hard drive, rotated daily, and auto-purged after 30 days.

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14. Day-to-Day Operating Tips

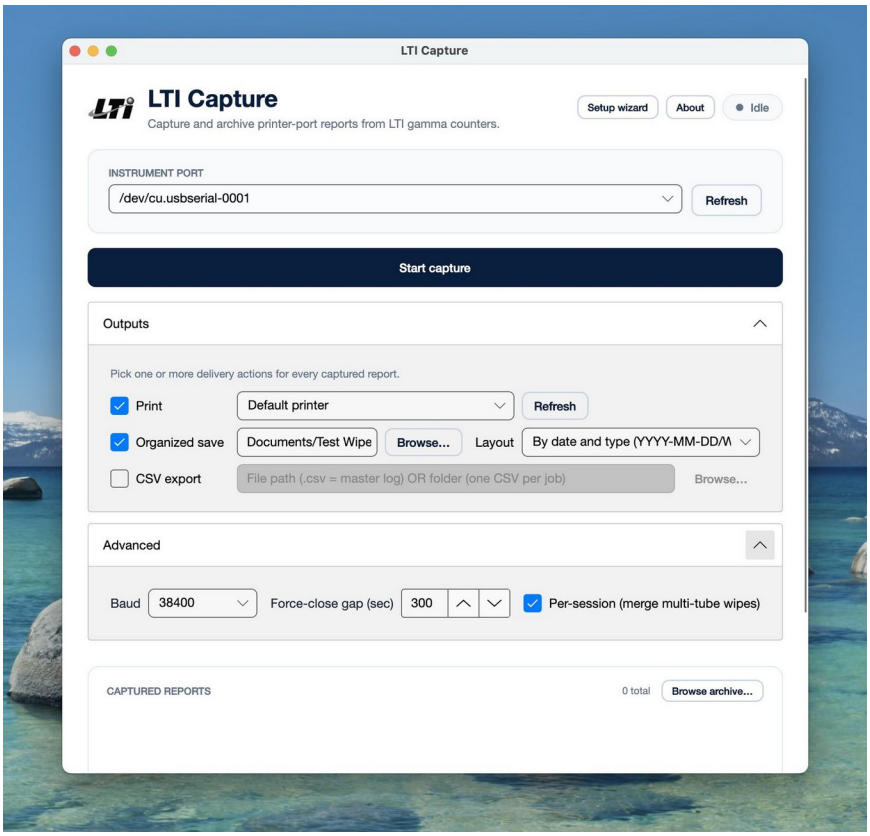

Figure 10. Advanced settings — baud rate, force-close gap, and per-session merging for multi-tube wipes.

Leave LTI Capture running

LTI Capture is designed to be left running all day. It uses minimal CPU when idle and only wakes up when the counter sends data. Many labs set it to auto-launch at login.

- **macOS**: System Settings → General → Login Items → "+" → pick LTI Capture
- **Windows**: Settings → Apps → Startup → enable LTI Capture
- **Linux**: depends on your desktop environment. GNOME and KDE both have "Autostart" pages in Settings.

USB disconnect / reconnect

If the USB-to-Serial cable gets disconnected (cleaning crew, accidental tug, computer goes to sleep), LTI Capture detects the disconnect and automatically reconnects when the cable is plugged back in. You don't need to restart the software or re-click Start.

If the **port name** changes (uncommon — only happens if the cable is plugged into a different USB port and the OS assigns it a new name), you'll need to manually re-pick the port from the dropdown. Most operating systems remember USB-serial cables by device, so re-plugging into the same physical port restores the same port name.

When the counter is off, LTI Capture is just waiting

You'll see the connection-status dot turn yellow when the counter is powered off (port is open, no banner yet). This is normal. When the counter boots, the banner arrives and the dot goes green.

Sleeping the computer is fine

LTI Capture handles the computer going to sleep and waking up. The serial port is re-opened on wake. You may briefly see the connection status flicker through yellow → green during the re-handshake; this takes a few seconds.

Multiple counters

If your lab has multiple LTI counters, run a separate copy of LTI Capture for each — one per workstation, each with its own serial cable on a different USB port. Each instance has its own configured outputs. This keeps the audit trail clean (one log file per counter).

A single LTI Capture installation can switch between counters sequentially by changing the port dropdown, but cannot listen on multiple ports simultaneously.

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15. Troubleshooting

Symptom
Connection status stays red, port dropdown empty
Connection status yellow but never goes green
Connection status flickers red, yellow, green
Reports captured but corrupted / garbled
PDF saved but stamped "Evaluation Copy"
Activation code "doesn't match"
Archive browser empty
Printer didn't print captured report
"Print Screen" reports instead of named types
Software freezes or crashes
Calibration columns misaligned
Flag banner won't resolve

If none of these apply

Email **sales@labtechinc.com** with:

1. A description of what you were trying to do
2. What you expected to happen
3. What actually happened

4. The output of **About → Copy diagnostics** pasted into the email body

We typically respond within one business day.

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16. Frequently Asked Questions

Q: Does LTI Capture transmit any data over the internet?

A: No. All processing is local. The software does not phone home, telemeter, beacon, or update over the network. Activation is via email exchange. PDFs are saved locally to your chosen folder. If you also configure cloud-synced storage (Dropbox, OneDrive, etc.) as your Organized save folder, those services sync the files independently — LTI Capture itself is not aware of the sync.

Q: Is LTI Capture HIPAA-compliant?

A: LTI Capture is a *technical* tool that does not, by itself, process or transmit Protected Health Information (PHI). Your laboratory's HIPAA compliance posture depends on how you store and route the captured PDFs. See the IT Approval Bundle on this USB drive for the full compliance brief to share with your compliance officer or IT department.

Q: Is LTI Capture FDA-cleared?

A: LTI Capture is a laboratory/research instrument tool. Laboratory Technologies, Inc. is not FDA-registered; our instruments and software are sold for laboratory research use. For regulated clinical applications, consult your institution's compliance team about how digital records produced by LTI Capture fit into your workflow.

Q: Do I have to buy LTI Capture for every counter?

A: No. LTI Capture is licensed per organization. One activation covers one workstation per counter as a typical pairing, but multi-counter or multi-workstation labs can purchase higher activation budgets up front. See your Certificate of Authenticity for your purchased budget.

Q: Can I install LTI Capture on a personal laptop?

A: Yes, as long as you stay within your activation budget. Many RSOs install it on a laptop for offsite review of archived PDFs — the archive browser works without a connected counter.

Q: What happens if I lose my activation code?

A: Email **registration@labtechinc.com** with your installer ID (printed on your Certificate of Authenticity) and we'll re-issue.

Q: What if my Certificate of Authenticity is lost?

A: Email **sales@labtechinc.com** with your organization name, purchase date, and any reference info you have. We can look up the installer ID in our license records.

Q: How long are PDFs retained?

A: Forever, by default. LTI Capture does not auto-delete anything from the organized-save folder. Set your own retention policy by the means appropriate to your lab — manual deletion, cloud-backup retention, etc.

Q: How big do PDF files get?

A: Most LTI counter reports produce PDFs in the 30–150 KB range. A typical lab generating 5–20 reports per day will accumulate 20–100 MB per year of archive — well within any modern storage capacity.

Q: Can I edit the PDFs after capture?

A: LTI Capture does not provide a PDF editor. Use any PDF tool your lab already has. Note that any edit downstream of capture breaks the chain-of-evidence the "Licensed to" footer provides. The supervisor-flag workflow is built into LTI Capture itself precisely to keep authorized annotations attached to the original record.

Q: Will future LTI counter firmware updates break LTI Capture?

A: No. The wire protocol (Epson ESC/P LX/FX dialect) is stable across LTI counter generations going back decades. LTI Capture is forward-compatible with planned firmware enhancements (operator identification, supervisor pre-authorization signaling, explicit report-type tagging). Future firmware updates will be recognized by LTI Capture without requiring a software update on your end, in most cases.

Q: What about Mac users with Apple Silicon (M1/M2/M3/M4)?

A: The macOS build is a universal binary, runs natively on both Apple Silicon and Intel Macs. No Rosetta required.

Q: Can I run LTI Capture in a virtual machine?

A: Yes, as long as the VM has USB pass-through for the USB-to-Serial adapter. All major hypervisors (VMware, Parallels, VirtualBox, Hyper-V) support this.

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17. Support and Contact

General product and licensing sales@labtechinc.com

Registration and activation codes registration@labtechinc.com

Mailing address Laboratory Technologies, Inc. Chicago, Illinois, USA

Web www.labtechinc.com

When emailing support, please always include:

1. The version number from **About LTI Capture** (top-right of the main window)
2. The output of **About → Copy diagnostics** pasted into the email body
3. A description of what you were trying to do and what happened instead

That combination of information gives us almost everything we need to help you quickly.

Laboratory Technologies, Inc. *Committed to Excellence Since 1983*

This manual covers LTI Capture v1.0. Newer versions may add features not described here; check the in-application About dialog for your current version. This manual is also available in PDF form from www.labtechinc.com/lti-capture.