

V1.95

16th September 2026**Major update now supports more models including Icom CI-V!**

This major new firmware release detects the model, sets up CAT or CI-V communication and only displays or makes active the CatTouch7USB™ controls supported by the transceiver.

- **YAESU:**
FT-891, FT-450/D, FT-950, FTdx5000, FTdx3000, FTdx1200, FT-991/A, FTdx10, FTdx101D/MP, FT-710, FTX-1.
- **ICOM:**
IC-7100, IC-7200, IC-7300/MK2, IC-7410, IC-7600, IC-7610, IC-7850, IC-7851, IC-9100, IC-9700, IC-R8600.
- **XIEGU:**
G90.
- Tested with Yaesu FT-710, FTdx10, FT-710 & IC-7300. More testing when new to me rigs arrive for testing in next week or two.
- IC-7300 & IC7300MK2 also support Scope & Waterfall! However they just displays what is shown on the transceiver. Changing span etc must be done on the transceiver for now.
- **USB audio is not passed through or supported by CatTouch7USB™.** If you normally use one USB connection for both CAT/CI-V control and audio, you will need an external USB audio adapter such as DigiRig, SignalLink, or USBRigLink.

v1.49

6th September 2026

- **Improved VFO A/B operation** – direct VFO selection now closely follows the proven 4" CatTouch workflow, including frequency entry directly to VFO A or B.
- **Improved MEM → VFO switching** – selecting VFO A/B from the frequency popup now correctly exits Memory mode and returns to the selected VFO.
- **Fixed stale frequency-entry bug** – switching VFOs without entering a new frequency no longer overwrites the destination VFO with the previous entry.
- **Improved SPLIT display** – compact SPL indication with the main frequency above and the split frequency aligned underneath.
- **Improved Memory display** – memory tag shown prominently above its frequency using the same clear stacked layout.
- **Band buttons now use radio band-selection commands** rather than fixed preset frequencies, preserving the rig's own band state and improving future multi-radio compatibility.
- **Improved FT8/digital RX metering** – added post-TX receiver settling to prevent false S-meter spikes and corresponding artifacts in Signal History.
- **Improved Log keyboards** – added proper SPACE bars for Antenna and Comments entry.
- **Standardised popup/dialog appearance and behaviour** – common CatTouch colours, borders, fonts and consistent lower-right BACK buttons.
- **Major firmware architecture refactor** – main file broken into organised modules with reusable popup inheritance while retaining existing operation.
- **Improved maintainability and multi-rig readiness** – cleaner separation between UI actions and rig-specific CAT commands, making future radio support significantly easier.

v1.48

5th September 2026

- **Internal - not released**

- **Added Split-frequency support** with dedicated VFO A/B controls and clearer split operation.
- **Redesigned Frequency popup** – frequency/split controls separated from memory management for a simpler workflow.
- **Added dedicated Memory Manager** for browsing, recalling and managing FT-891 memories directly on CatTouch7USB.
- **Added “Save Current”** – store the current operating frequency directly into an FT-891 memory without using a PC or editing memories.csv.
- **Added on-screen Memory Tag editing** with full keyboard entry.
- **Added direct memory shortcuts** – long-press the main frequency to save it to memory, and tap the active memory tag to edit it.
- **Improved VFO/MEM navigation** – easier return from Memory mode to VFO operation.
- **Clarified SD memory functions** – renamed bulk operations to **IMPORT SD** and **BACKUP SD** to distinguish them from saving a single frequency.
- **Improved popup consistency** – standardised colours, borders, fonts and lower-right BACK-button placement.
- **Improved SWR delete dialogs** to match the normal CatTouch visual style and confirmation layout.

v1.47 4th September 2026

- Optimized TX meter response
- Optimized CatTune performance on SWR screen
- Added ability to delete SWR plots (one plot, entire band or all plots)

v1.46 1st September 2026

- Internal performance testing, not released

v1.45 1st August 2026

- Added CatTune button to SWR screen
 - Scans current band, identifies high SWR points & forces retune at those high points. Essentially training any CAT the tuner for current band with current antenna system. Ideal for quick POTA, SOTA, Field ops or anytime you change / adjust your antenna.
 - Only works in CAT tuner mode. Does not work in carrier tune modes.
- Standardized ALC & CMP meter popups so they both have PROC & MIC EQ buttons to turn microphone processor and microphone equalizer on/off from within the popup.

v1.44 24th July 2026

- Added **LOG** screen for standalone contact logging.
- Contacts are saved directly to standard **ADIF files** on the SD card.
- Log filenames are based on the entered event or location name, for example: CENTRAL-PARK.adif
- Reusing the same event name continues the existing log file.
- Each log contact records:
 - Callsign
 - UTC date and time

- Frequency and band
 - Operating mode
 - Transmit power
 - Sent and received signal reports
 - The same station & operator callsign
 - Grid locator
 - Antenna
 - Comments
- Prompts for date/time, station callsign, grid locator and event name.
 - Required fields are highlighted until completed.
 - Frequency, mode and power are taken automatically from the connected radio.
 - The last most recent contact is shown on screen and can be edited.
 - The CLEAR button is disabled when there is nothing to clear.
 - Contact comments clear after logging, while station details and antenna remain available for subsequent contacts.

SD Card Support

- The logger checks that a usable SD card is installed or an error message is shown.
- FAT16 or FAT32 formatted SD cards are supported.
- Each contact is written to the SD card immediately to reduce the risk of losing the log.

v1.43

20th July 2026

- Added DVS (Digital Voice System) screen for AM/SSB voice modes.
 - Record and playback of 5 voice messages, up to 20 seconds each.
 - Long press a message slot to open the DVS memory editor.
 - Enter a message name using the on-screen keypad.
 - This name is stored on CatTouch7USB only.
 - Select record audio source: MICrophone or REAR port.
 - To RECORD, hold microphone, press PTT to start recording, speak your message, then press STOP REC when finished.
 - Press PLAY to check the recorded message.
 - Use keypad to name your recorded message.
 - Press BACK to return to the main DVS screen & save the message name.
 - Playback any of the 5 recorded DVS messages on speaker or on air.
 - Short press a message slot to play that DVS memory.
 - STOP button appears/enables while playback is active.
 - Added DVS playback routing.
 - SPEAKER plays the message locally through the radio speaker.

- ON AIR keys the radio and transmits the message on air.
- Added DVS level controls.
 - Speaker Level adjusts the radio speaker level.
 - TX Level adjusts the transmitted audio level.
- DVS controls are only valid in AM or SSB voice modes.
 - Unsupported modes show a warning.
- Disabled DEBUG output to prevent issues with HAMLIB-based software such as WSJT-X.
- Removed VNC page & support - performance was too slow for practical use.
- Reworked the DSP popup:
 - Now full screen with larger touch controls.
 - WIDTH control now displays actual bandwidth in Hz instead of raw CAT setting numbers.
 - WIDTH display now follows the FT-891's current operating mode and Narrow/Wide filter state. Unavailable bandwidths are automatically corrected to a valid setting by the radio.
 - All DSP slider controls now allow the full range to be selected by touch.

v1.39**29th June 2026**

- Added centre-zero VFO tuning slider to the frequency popup.
 - Touch left of centre tunes down.
 - Touch right of centre tunes up.
 - Further from centre increases tuning speed.
 - Releasing the slider returns it to centre/stop.
- Added a dedicated CW operating tab for easier FT-891 CW use from the CatTouch7USB screen.
 - Added CW Text Memory support with five large memory buttons.
 - CW memories are read from the FT-891 when the CW tab is opened.
 - Empty memories show “-empty-” and are ignored on short press.
 - Short press sends a stored CW text memory.
 - Long press opens the CW memory editor.
 - The active memory button is highlighted while the radio is transmitting.
 - Added main CW operating controls for speed, width, pitch, sidetone level, BK-IN, keyer, ZIN, APF, and SPOT.
- Added CW Text Memory editor with on-screen keypad.
 - Only valid CW text characters are available.
 - The FT-891 text-memory terminator is handled automatically and is not shown to the user.
 - READ reloads the selected memory from the radio.
 - SAVE writes the edited text to the radio.
 - SEND saves the edited text and then sends it.
- Added CW Advanced settings popup for less-used CW setup options including memory type, beacon interval, contest number, number style, keyer type, dot/dash polarity, CW weight, BK-IN type, BK-IN delay, wave shape, QSK delay, and CW frequency display mode.
- Added CW tab to the main tab row.

v1.34**23rd June 2026**

- Changed power button action.
 - Short press > Off > turn FT-891 off, CatTouch7USB suspend.
 - Long press > Reboot > restart CatTouch7USB.

v1.33**17th June 2026**

- Added SWR sweep graph with automatic band-edge detection, best SWR result, configurable IARU region, selectable sweep points, and shared tune/SWR power setting.

- Added RF carrier tuning mode for external RF-sensing antenna tuners, with selectable CAT or Carrier tune operation.
- Added configurable carrier tune power and timer/hold operation for the main TUNE button.
- Reworked the CFG screen into grouped panels to make display, colour, tune, and SWR settings easier to understand and adjust.
- Added VNC client support, allowing CatTouch7USB to connect over 2.4GHz WiFi to a computer running a VNC server for remote viewing/control. Note VNC is very slow especially at high resolutions.
- Added WiFi/VNC setup screens with SSID scan, password entry, saved VNC host/port/password settings, and show/hide password controls.

v1.26 **10th June 2026**

- Improved USB CAT bridge compatibility with Hamlib-based programs such as WSJT-X and MSHV, while preserving radio-side frequency and VFO status updates.

v1.25 **10th June 2026**

- Improved USB CAT passthrough compatibility with Hamlib-based applications by filtering unsolicited radio CAT traffic so PC software only receives replies to commands it issued.

v1.24 **May 2026**

- **Initial Public Release**

Thank you for supporting my product. If you have any comments please feel free to send me an email.

73 de Chris ZL1CVD
zl1cvd@gmail.com