CLV Rig Control Master

User guide · version for the Yaesu FTDX10

Version 7.28 · Decoder 1.01

FREE · FREEWARE



Direct CAT control of the Yaesu FTDX10 · waterfall · CW, RTTY, PSK, NAVTEX and WEFAX weather chart decoder · SSTV receive and transmit (CLV-SSTV) · DX cluster · CW and contests from the PC · link with WSJT-X, Log4OM and N1MM.

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> 💡 **How to use this guide**
>
> The orange numbers on the screenshots (1) match the points written next to them. Key names are written like this: `TEST CONNECTION`. The guide also opens from the program, with the **Guide** link at the bottom of the main window. The screenshots use the night theme; the day theme has the same controls in the same places.

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1 What CLV Rig Control Master is

CLV Rig Control Master is a Windows program that controls the radio from the computer (CAT control) and puts on the same screen the radio panel, the waterfall, a decoder for digital modes and the tools for DX and contests. I wrote it for my own station, a Yaesu FTDX10, and then opened it to everyone.

Two versions: choose the one for your radio

Version	Who it is for
FTDX10 (this guide)	Owners of the **Yaesu FTDX10**. The program talks directly to the radio and uses all its functions: full menu, memories, profiles, CW and RTTY from the PC with instant STOP.
Multi-Radio	Owners of **another radio** (Icom, Kenwood, Elecraft, the other Yaesu, receivers). The program builds the panel with the controls that radio has. It has its own guide.

Free

From version 7.28 the program is **freeware**: all functions, decoder included, for everyone and with no time limit. No trial period and no activation code. With the `DONATE` key you can support the project with a donation, if and how much you like: it is not required and it does not unlock anything.

What it does

Function	In short	Chapter
Radio panel	frequency, knob, bands, modes, filters, AGC, levels, RIT, needle meter and TX meters	5, 6
Spectrum and waterfall	from the radio USB audio; one click on a signal and the radio tunes to it; it can be detached into its own window	5
CLV Decoder 1.01	CW, RTTY, PSK31/63, NAVTEX, WEFAX weather charts; AUTO recognises the signal; REC AUDIO	9
CLV-SSTV	receive and transmit SSTV pictures with your photo and ready-made texts	10
DX	WANTED, DX CLUSTER, spot alerts	12
CW and contests	F1–F8 memories, AUTO CQ, CW and RTTY from the PC	14
CAT sharing	WSJT-X, Log4OM and N1MM open together on the same radio	15
QSO LOG	ADIF file and every QSO sent to Log4OM	16

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What you need

- A PC with **Windows 10 or 11**. Nothing else to install: Python is already inside the program.
- The FTDX10 connected to the PC with the **USB cable** and the **Silicon Labs CP210x** driver from the Yaesu website installed.
- For waterfall and decoder, the radio USB sound card, which Windows calls «USB Audio CODEC».
- Internet only for DX cluster, propagation and updates: everything else works without it.

My station

In my station CLV Rig Control Master, N1MM, Log4OM and WSJT-X all work on the same FTDX10. Only CLV opens the radio port; the other programs connect to it (chapter 15). So, when you turn the knob, the frequency changes in all the windows together.

> 📌 **How it started**
> I used to run a virtual port «splitter» to make WSJT-X, Log4OM and N1MM live together: now and then a program lost the radio and the port stayed busy. That gave me the idea of a single program that holds the radio and «lends» it to the others.

Beta testers

Thanks to IK2JBY Mauro, IK6HQL Mario and IU7VNL Marco: with their tests and reports I fixed several bugs and added new functions.

> 💡 **Where your files are**
> Everything is in **Documents → CLV Rig Control**: the log `log_qso.adi`, the folders **Immagini** (SSTV and WEFAX pictures received and sent), **Registrazioni** (REC AUDIO), **Memorie - copie** and **Profili - copie** (safety copies of the channels and profiles, made before writing to the radio). The folder names stay in Italian. The settings are in `%APPDATA%\PannelloCAT`.

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2 Installation and first start

Installation takes a minute and does not ask for the administrator password: the program is installed for your user only.

Installing

1. On the CLV Rig Control Master page at **www.radiometeo.com** press the **FTDX10 version** button and extract the zip. The file is called `CLVRigControl_v7.28_FTDX10_Setup.exe`.
2. Double-click the file. If Windows shows «Windows protected your PC», press **More info** and then **Run anyway**: it happens with new programs that Windows does not «know» yet.
3. Choose the language (Italian or English): it is also the language of the program. Then there is the welcome page: press **Next**.
4. Read the terms of use, tick «**I have read and accept the terms of use**» and press **Next**. The proposed folder is `%LOCALAPPDATA%\Programs\CLVRigControl`: leave it as it is and press **Install**.
5. At the end leave «Start CLV Rig Control Master» ticked and press **Finish**. On the desktop there is the «CLV Rig Control Master» icon; the Start menu also has Readme and Uninstall.

> ✓ **Updating and uninstalling**
> For a new version install over the old one, without uninstalling: settings, log and memories stay. The program checks by itself at start-up and every 6 hours («Check for updates at start-up» in SETTINGS → RADIO AND PROGRAM); when there is a new version the orange `⬇ Update` key appears at the top. `UPDATE NOW` downloads and installs, then closes the program (never while you transmit); `LATER` does not offer that version again by itself. By hand: the **Check for updates** link at the bottom.
> To uninstall: Start menu → CLV Rig Control Master → **Uninstall**, or Windows Settings → Apps. The settings and the Documents → CLV Rig Control folder stay on the PC.

At the first start

1. The program asks you to read and accept the terms of use with `I ACCEPT`. You can read them again whenever you like with the **Terms of use** link at the bottom of the main window.
2. The **Welcome** window appears with the three steps to get started: connect the radio, type your callsign, link the other programs. It has the `READ THE GUIDE` and `OPEN SETTINGS` keys.
3. Type your callsign right away: `SETTINGS` → **Radio and program** → **Your callsign**. It is used by the CW, RTTY and DATA messages and by the strip on the SSTV pictures.
4. The next step is connecting the radio: chapter 3.

> 💡 **What's new**
> After every update a short window opens with the new functions of the version. Open it again whenever you like with the **What's new** link at the bottom of the main window.

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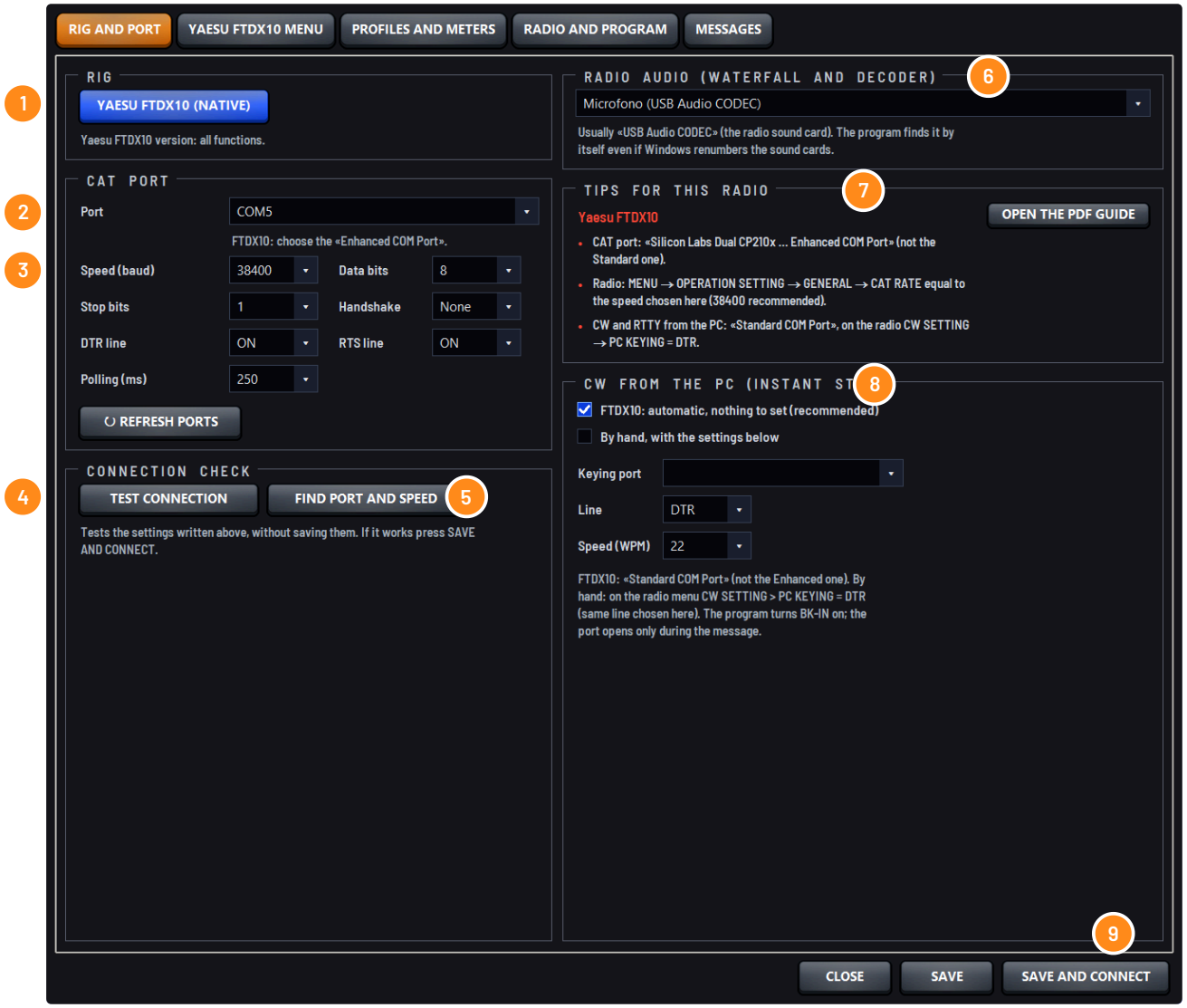
3 Connecting the FTDX10

You connect the radio to the program and check that they talk to each other, before saving. It takes a few minutes.

Before you start

- The radio is on and connected to the PC with the USB cable.
- The **Silicon Labs CP210x** driver from the Yaesu website is installed: in **Device Manager → Ports (COM & LPT)** there are two ports, «Enhanced COM Port» and «Standard COM Port».
- WSJT-X, Log4OM, N1MM, OmniRig and the other programs that use the radio are closed: only CLV opens the port, the others connect to CLV (chapter 15).

SETTINGS → Rig and port



Press **SETTINGS** at the top of the main window: the RIG AND PORT tab opens.

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1. **Rig**: in this version it is always the **YAESU FTDX10 (NATIVE)**, with all functions.
2. **Port**: choose the radio port. It must be the «**Enhanced COM Port**», not the «Standard» one. If the radio was off, switch it on and press `↻ REFRESH PORTS`.
3. **Speed**: the same as the radio menu **CAT RATE** (chapter 4); factory default and recommended **38400**. Leave data bits, stop bits, handshake, DTR and RTS as they are.
4. `TEST CONNECTION`: the program asks the radio for frequency and mode, without saving anything. A box appears below: **green** = the radio answers, **red** = something is wrong, with the explanation (table below).
5. `FIND PORT AND SPEED`: if you do not know port and speed, the program tries all the combinations by itself and writes the right one in the fields. Press the key again to stop the search.
6. **Radio audio**: choose the radio sound card, usually «USB Audio CODEC». It is used by waterfall and decoder; the program finds it again even if Windows renumbers the sound cards.
7. **Tips for this radio**: what to choose and what to check in the FTDX10 menu. `OPEN THE PDF GUIDE` opens this guide.
8. **CW from the PC**: with «FTDX10: automatic» ticked, the CW and RTTY of the memories go out from the Standard COM Port and STOP stops them at once (chapter 14).
9. When the box is green press `SAVE AND CONNECT`: at the bottom of the main window **CONNECTED** appears and the key at the top becomes `DISCONNECT RADIO`.

If the box is red

What the box says	What to do
Port COMx does not exist now	Radio off or cable unplugged. Switch the radio on, check the cable and press `↻ REFRESH PORTS`.
Port COMx is already used by another program	Close WSJT-X, Log4OM, N1MM, OmniRig or another copy of CLV, then try again.
The radio does not answer on COMx at … baud	Speed different from the radio CAT RATE, or wrong port (try the other of the two ports). Or press `FIND PORT AND SPEED`.
The radio answers but with strange characters	Speed or stop bits different from those of the radio.

If you cannot solve it, press `COPY DIAGNOSIS` in the red box: the program copies all the test data; `WHAT TO CHECK` opens this guide at the page on connection problems. Paste the data (Ctrl + V) into the report made with **Report a problem**, together with the log files (chapter 17).

> 💡 **Practical tip**
> Always run `TEST CONNECTION` before `SAVE AND CONNECT`: if something is wrong you find out at once, with the explanation.

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4 The FTDX10 menu

The radio menu items that matter for CLV. I took them from the **official Yaesu operating manual** of the FTDX10: next to each item there is the manual page (the page numbers are those of the Italian edition and may differ in other editions). On the radio they open with the **[FUNC]** knob → **SETTING**.

CAT connection

Menu item	What to choose
OPERATION SETTING → GENERAL → CAT RATE (p. 99)	4800 / 9600 / 19200 / 38400 bps, factory 38400. It must be **the same** as the speed chosen in CLV (chapter 3).
OPERATION SETTING → GENERAL → CAT TIME OUT TIMER and CAT RTS (p. 99)	Factory 10 ms and ON: leave them like that.

CW and RTTY from the PC

Menu item	What to choose
CW SETTING → MODE CW → PC KEYING (p. 96)	OFF / DAKY / RTS / DTR, factory OFF. With «FTDX10: automatic» ticked (chapter 14) **you do not need to touch it**: CLV sets it to DTR only during the message and then puts it back as it was. If you choose «by hand», set it to **DTR**.

Audio from the PC (FT8, RTTY and PSK in DATA, SSTV)

Menu item	What to choose
RADIO SETTING → MODE PSK/DATA → DATA MOD SOURCE (p. 92)	MIC / REAR, factory REAR: leave it on **REAR**.
RADIO SETTING → MODE PSK/DATA → REAR SELECT and RPORT GAIN (p. 92)	REAR SELECT (factory DATA): for audio over the USB cable choose **USB**. RPORT GAIN 0–100 (factory 50): level of the audio coming from the PC, adjust it while watching the ALC.
RADIO SETTING → MODE SSB → SSB MOD SOURCE and REAR SELECT (p. 87)	Factory **MIC**: in USB and LSB the radio transmits the microphone audio. The manual says that with **REAR** the front panel microphone is disabled. See chapter 10 for SSTV.

> ⚠ **Before changing the menu**
>
> Changes go into the radio at once. First save the menu to the SD card (EXTENSION SETTING → SD CARD → MENU SAVE, p. 107 of the manual) or write down the previous values. The full menu can also be read and written from CLV: chapter 13.

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5 The main window

The main window is laid out like the front panel of a radio. Here is the full view.



1. CONNECT RADIO, DONATE, DECODE SIGNALS (ch. 9), ▢ REDUCE (ch. 7), SETTINGS (ch. 13)
2. Needle meter: S-meter in receive, the chosen scale in TX
3. Display: large VFO-A, VFO-B below, mode, power, TX lamp
4. ATT, PREAMP, ROOFING, AGC; below them the indicators (filter, KEYER…)
5. TX meters: PO, SWR, ALC, COMP
6. Spectrum and waterfall: click on a signal = the radio goes there
7. DETACH and SPAN of the spectrum
8. Levels: AF, RF, SQUELCH, POWER, MIC GAIN
9. VFO and RIT: A/B, A=B, SPLIT, RIT − / + and CLR
10. Tabs with the controls by topic (ch. 6)
11. Controls of the open tab
12. TUNING: knob, LOCK, FINE and STEP (Hz)
13. BAND: each one remembers frequency and mode; GEN = general coverage
14. MODE: all the FTDX10 modes
15. TRANSMIT: MOX, TUNE, MONI and PTT · TRANSMIT
16. HF PROPAGATION
17. UTC and LOCAL clocks
18. Status bar: lamp, SPOT block, DX CLUSTER, HISTORY
19. Links (Guide, What's new…), ☀ ☾ day / night, version

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Frequency and tuning

Digit by digit: click on a digit of the large frequency and turn the mouse wheel: exactly that digit changes, as on the radio. ↑ and ↓ change it too; with ← and → you move to another digit, Esc ends. With LOCK on the digit does not change.
Typing the frequency: double-click on the large frequency, type it (for example `14074`, `7.1` or `21,295`) and press Enter.
Knob 12: drag it or use the wheel over it. The step is chosen with **STEP (Hz)**: 1, 10, 100, 1k, 10k. `FINE` switches on the radio fine tuning; `LOCK` locks the radio and also the program knob.

Waterfall

One click on a signal 6 and the radio tunes it (in USB and LSB the program recognises the voice near the click and puts the radio at the right point: in the HISTORY «Voice detected…»); the waterfall scrolls with the frequency when you turn the knob. It works if the radio sound card is chosen in SETTINGS → Rig and port.
SPAN 7: with 3 kHz, 1.5 kHz or 500 Hz the spectrum and waterfall close in around the red line (your frequency), handy in CW. AUTO follows the filter.
DETACH 7: the waterfall goes into a **separate window**, which you can move and resize wherever you like (for example on a second screen) and which remembers its position. A click tunes there too. `ATTACH` puts it back in the display.

Levels, VFO and RIT

Each level 8 is a knob: drag it, use the wheel over it, or press − and + below the value. MIC GAIN in CW and RTTY shows «—»: the radio accepts it only in SSB, AM and FM.
In the VFO box 9: `A/B` swaps the VFOs, `A=B` copies frequency and mode from A to B, `SPLIT` transmits on B. With RIT + and − you move the receive frequency by 10 Hz per click, up to ±9.99 kHz (RIT switches on by itself); `CLR` clears it and switches it off.

The needle meter

In receive 2 it is the S-meter: S on the left, then +20, +40 and +60 dB. In transmit it shows the scale chosen in the TX tab (PO, COMP, ALC, VDD, ID, SWR), with the name at the bottom left. The PO, SWR, ALC and COMP bars 5 move when you transmit.

Confirmations before transmitting

Key	What the program asks
PTT · TRANSMIT and MOX	«You are about to transmit with N W», with «Ask for confirmation before transmitting» ticked (SETTINGS → RADIO AND PROGRAM); they switch off by themselves after «Automatic TX off»: 10, 30, 60, 120 or 300 s (30 by default)
TUNE	it **always** asks: «Starting the tuner: the radio transmits for a few seconds»
Decoder F1–F8	«Transmit the message?», with the same tick
AUTO CQ	a single question at the start, with the message, the repeats and the pause
CLV-SSTV	it **always** asks, with mode, duration and power
MANUAL TX	no question: it transmits while you type

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HF propagation

The box 16 shows the solar flux SFI, the K and A indices and a bar for each group of bands: the colour is the condition (green good, yellow fair, red poor), the length is the spots of the last hour (SPOTS/h). Next to the title there is the data source (N0NBH, hamqsl.com) with the time: a click opens it in the browser.

The status bar

- **Lamp** on the left: CONNECTED or NOT CONNECTED, with the radio name.
- **SPOT block**: when an interesting spot arrives (WANTED, chapter 12) it appears here with callsign, frequency and mode; `TUNE IN` takes the radio to the spot. Without spots it says «no DX spot». Right-click on the callsign: «Open on QRZ.COM» or «Copy callsign».
- `DX CLUSTER ▸` opens the window with all the spots (chapter 12).
- `HISTORY ▾` opens all the program messages: there you see, for example, which command the radio refused or which program connected. Messages go only to the HISTORY, so the status bar stays clean.

> ⚠ **PTT**
>
> `PTT · TRANSMIT` and `MOX` ask for confirmation before transmitting (it can be removed in SETTINGS → Radio and program, «Ask for confirmation before transmitting») and switch off by themselves after the time chosen in «Automatic TX off» (30 seconds by default). `TUNE` always asks for confirmation (previous page).

> 💡 **Small and large screens**
>
> The window opens at the standard size (as on a 1920 × 1080 screen), also with Windows zoom at 125 or 150 %. On a small screen, for example 1366 × 768, the full view shrinks by itself until it fits. Dragging the border you make it larger or smaller; the program remembers the size.

Day and night

At the bottom right the ☀ (day, light background) and ☾ (night, dark background) keys change the theme of all the windows, decoder included. The radio display stays dark, like the real one.



The full view with the day theme.

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6 The control tabs

Under the levels there are six tabs: one click on the name and the controls in the box change. The open tab is orange; on the keys a lit LED means «active».

RX



Box	Controls
AGC	OFF, FAST, MID, SLOW, AUTO
IPO / PREAMP	IPO (no preamplifier), AMP1, AMP2
ATT	OFF, 6 dB, 12 dB, 18 dB
ROOFING	first IF filter: 12k, 3k, 500, 300 Hz
DSP	NB, NR, DNF, NAR (narrow filter), NOTCH, CONT (contour), APF; `DSP OFF` switches off all the DSP filters at once
LEVELS	NB LEVEL, NR LEVEL, WIDTH (filter width), IF SHIFT, NOTCH, CONTOUR, APF

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TX

Box	Controls
TRANSMIT	VOX, PROC (processor), MIC EQ (microphone equaliser), TX W (TX WATCH: in split you also listen to the transmit frequency)
ANTENNA TUNER	the radio automatic tuner OFF / ON
TX METER	the scale of the needle meter in transmit: PO, COMP, ALC, VDD, ID, SWR
LEVELS	MONI LEVEL, PROC LEVEL, AMC LEVEL, VOX GAIN, ANTI VOX, VOX DELAY

The audio and transmit profiles and the meter check are in SETTINGS → PROFILES AND METERS (chapter 13).

VFO / CLAR



Box	Controls
TRANSMIT ON	MAIN or SUB: which VFO you transmit with
CLARIFIER	the radio RX CLAR and TX CLAR; the offset is set with RIT − / + in the main window
RADIO SCOPE	MARKER and HOLD of the radio screen
MULTI KNOB	BACK and FORWARD: one step of the FTDX10 MULTI knob, for the function chosen on the radio
MICROPHONE	DOWN and UP, like the microphone keys
RADIO SCREEN	LEVEL, PEAK, COLOR, SPEED, CONTRAST, BRIGHTNESS and LED of the FTDX10 screen

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CW

Box	Controls
TEXT MEMORIES	TEXT 1–5: the messages written in the radio keyer memory (they are written in SETTINGS → MESSAGES)
KEYER	KEYER and BK-IN
RECORDED MESSAGES	KEY 1–5: the messages recorded with the key in the radio
ZERO BEAT	SPOT (reference tone) and ZERO IN (the radio moves to zero beat on the station)
LEVELS	KEY SPEED (WPM), CW PITCH (Hz), BK-IN DELAY (ms)

MEMORIES / SCAN



Box	Controls
MEMORIES	`V/M` switches between VFO and memory; `M LIST` opens all the channels (next page); `WRITE` puts VFO A into the channel; `SAVE ▸` saves frequency and mode with a name; `QMB STORE` and `QMB RECALL` the quick memory
CHANNEL	▼ and ▲ with the channel number; GO TO CHANNEL (type the number and press `GO`); `→ VFO A` and `→ VFO B` copy the channel to the VFO
SCAN	what to scan (VFO, MEMORIES, BETWEEN TWO FREQUENCIES with FROM and TO in kHz), SCAN STEP, then `▼ DOWN`, `STOP`, `▲ UP`

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M LIST: all the channels

1. READ FROM RADIO: the program reads the 99 channels of the FTDX10 (frequency, mode, name, clarifier, tone, shift).
2. Double-click on a cell to edit it.
3. WRITE TO RADIO: before writing, the memories that were there are saved automatically in Documents → CLV Rig Control → Memorie - copie; after writing, the program checks the written channels again.
4. SAVE TO PC... and LOAD FROM PC... use a CSV file, which you can also open with Excel. GO TO CHANNEL takes the radio to the chosen channel.

AUTO CQ



It repeats a message for the chosen number of times, with a pause between one send and the next: CQ, contests, beacons. On the left choose the memory: **CW TEXT** (keyer text memories), **CW KEY** (messages recorded with the key), **RTTY**, **DATA** or **VOICE**, with the number 1–5. The text is written in the «Text to be sent» box and saved with SAVE TO MEMORY; with VOICE the key becomes ● RECORD VOICE and records from the microphone. Full explanation in chapter 14.

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Radio memories: what the program writes

- `SAVE ▸` (MEMORIES / SCAN) opens the «Save to the radio memory» window: choose the **channel (1-99)**, the program suggests the one after the last saved, and a **name** of up to 12 characters. Below you see whether the channel is free or in use («Channel in use: frequency, mode, name»). `SAVE` asks for confirmation, and if the channel is in use it asks «Overwrite it?». The frequency of the VFO in use and the mode of VFO A are saved.
- `WRITE` puts VFO A into the chosen channel, after the question «Write VFO A to memory channel N? What was there is replaced.»
- CW tab, **TEXT 1–5**: a **right-click** opens «CW TEXT MEMORY n», which reads the text from the radio by itself. Change it (50 characters at most) and press `SAVE TO RADIO`; `READ FROM RADIO` reads it again. They are the same memories used by the decoder F1–F5 in CW (chapter 14).
- TX tab, **TX METER**: besides the CLV needle it also changes the radio meter (METER).

SCAN

- **VFO** and **BETWEEN TWO FREQUENCIES** are done by the program on VFO A, with the chosen SCAN STEP (100 Hz, 500 Hz, 1 kHz, 2.5 kHz, 5 kHz or 10 kHz; 1 kHz by default). BETWEEN TWO FREQUENCIES goes from FROM to TO and starts again from the other end.
- **MEMORIES** uses the radio scan: here the step does not matter.
- On a signal it stops for **5 seconds**, then starts again. To stop on signals and not on noise close the **SQUELCH** until the hiss is gone: with the squelch at zero the HISTORY reminds you.
- It stops with `STOP`, by turning the knob (of the radio or of the program) or when you transmit. It does not start if the radio is receiving on VFO B.

> 💡 **Safety copies**
> Before writing all the channels (M LIST) or a profile, the program saves by itself a copy of what was in the radio, in Documents → CLV Rig Control → Memorie - copie and Profili - copie.

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7 Compact view, day and night

The ▢ REDUCE key switches to the compact view, ▣ ENLARGE goes back to the full one. The program remembers the chosen view.



1. ▢ CONNECT RADIO, DONATE, DECODE SIGNALS, ▣ ENLARGE, ⚙ SETTINGS
2. Needle meter
3. Display with VFO-A, VFO-B, mode and power
4. ATT, PREAMP, ROOFING, AGC
5. TX meters: PO, SWR, ALC, COMP
6. Six knobs: AF, RF, SQUELCH, POWER, MIC GAIN, CONTOUR
7. BAND
8. MODE
9. MOX, TUNE, MONI and PTT · TRANSMIT
10. TUNING: LOCK, FINE, knob and STEP (Hz)
11. UTC and LOCAL clocks
12. Status bar: SPOT with TUNE IN
13. WATERFALL ▸, DX CLUSTER, HISTORY
14. Links, ☀ ☾ and version

The compact view keeps the everyday controls and takes about half the screen: handy next to WSJT-X or N1MM, or on a small screen. The waterfall opens in a separate window with WATERFALL ▸. The compact view has no VFO A/B, A=B, SPLIT, RIT and the six control tabs: for split, RIT, memories and scan go back to the full view with ▣ ENLARGE.

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Day and night

The ☀ and ☾ keys at the bottom right work for both views.



The compact view with the day theme.

8 Other radios

This version is made only for the **Yaesu FTDX10**. If you have another radio (Icom, Kenwood, Elecraft, the other Yaesu, receivers) download the **Multi-Radio version** from the same page of www.radiometeo.com: it has its own guide, the panel is built with the controls your radio has, and the decoder, CLV-SSTV, the DX cluster and the log are the same.

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9 CLV Decoder 1.01

Press `DECODE SIGNALS`: CLV Decoder opens, reads the radio audio and writes the received text. The decoder has its own version, now 1.01.



1. Status bar: mode, speed and tone (e.g. «CW · 22 WPM · 640 Hz»)
2. Radio frequency and mode, `DONATE`
3. Received CALLSIGNS: one click and it becomes the @ of the messages; `CLEAR` empties the row
4. DX alert row (WANTED), with TUNE IN
5. Received text: callsigns are underlined
6. DECODER: AUTO, CW, RTTY, PSK31, PSK63, NAVTEX, SSTV, WEFAX, OFF
7. STATION: country, continent, CQ / ITU zone, DXCC
8. LATEST SPOTS; see all opens the list
9. `CLEAR`, `COPY`, `SAVE`, `● REC AUDIO`
10. `DX SPOTS OFF`, `FREQUENCY LIST` (ch. 11)
11. `RX` (stops transmitting), `SAVE TEXTS`, `TEXTS F1/F8`, `OPEN LOG`
12. MANUAL TX: type and transmit
13. F1–F8 with their texts (ch. 14)
14. SAVE THE QSO: callsign, RST, name, QTH, `SAVE QSO`
15. CW SPEED: TX − / +, `= RX`
16. RTTY: SHIFT, BAUD, REV. RX, REV. TX

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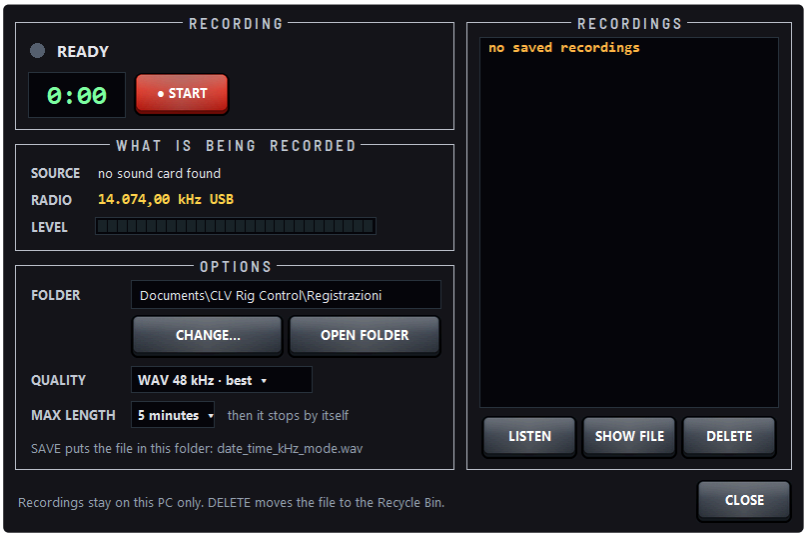
The modes

Mode	How to use it
AUTO	recognises the signal in a few seconds and switches to the right decoder, reading again the audio already received: the beginning is not lost
CW	speed and key «weight» are found by themselves, from 5 to 55 WPM; radio in CW-U or CW-L
RTTY	45.45 / 50 / 75 / 100 baud, shift 170, 200, 425, 850; polarity found by itself. Without a signal the noise does not print random letters
PSK31, PSK63	radio in DATA-U or USB
NAVTEX	bulletins for mariners (SITOR-B), e.g. 518 kHz in USB
SSTV	pictures arrive in the CLV-SSTV window (chapter 10)
WEFAX	weather charts by fax (DWD, Northwood). In AUTO it starts with the start signal; at the end of the chart the picture stays on the screen and is saved; you close it with EXIT
FT8 / FT4	they are not decoded here: use WSJT-X linked to CLV (chapter 15)

Received text keys

`DX SPOTS OFF` switches off the DX alerts of the decoder and of the SPOT row. Right-click on a callsign: «Open on QRZ.COM» or «Copy callsign»; with a normal click QRZ.COM does not open. With the program in Italian there is also the **TRADUCI** key, which translates weather bulletins into Italian without internet.

REC AUDIO



`• REC AUDIO` opens its own window: the source, the radio frequency, the level, the folder (Documents → CLV Rig Control → Registrazioni), the quality and the maximum length. `• START` records to a WAV file with date, time, frequency and mode in the name; on the right the recordings made, with `LISTEN`, `SHOW FILE` and `DELETE` (it goes to the Recycle Bin). Recordings stay only on your PC.

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Other decoder controls

Where	What it does
Right-click on the received text	«Copy selection» and «Use as CALLSIGN» (with part of the text selected), «Copy all the text», «Clear the received text» (with confirmation)
Right-click on the CALLSIGN box	Paste, Copy, Clear
Keyboard F1–F8 keys	they work when the decoder window is in front of the others
SAVE THE QSO	**Enter** in a field (callsign, reports, name, QTH) saves the QSO, like `SAVE QSO`. The radio must be connected: without a frequency the QSO is not saved; to write it by hand use `OPEN LOG`
WEFAX chart	under the chart: `CLEAR SCREEN`, `SAVE IMAGE` (in Documents → CLV Rig Control → Immagini), `ROTATE ⟳` (turns the chart on the screen by 90°), `FOLDER`, `EXIT ✕` (closes the chart and goes back to the previous mode)

Spot alerts

When a WANTED spot arrives the decoder and the status bar show the alert with a short **beep**; the same callsign alerts at most every 10 minutes. `TUNE IN` puts the callsign into the memories (in place of @), into the QSO LOG and into SAVE THE QSO, and takes the radio to the spot frequency with the mode and split. The radio never moves by itself. `DX SPOTS OFF` switches off alerts and beep.

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10 CLV-SSTV

Receive and transmit SSTV pictures. The CLV-SSTV window has two tabs: `RECEIVE` and `TRANSMIT`.

Receiving

With the decoder in AUTO or SSTV and the radio in USB on an SSTV frequency (e.g. 14,230 kHz), the picture starts by itself when the VIS arrives, the code the station sends at the beginning, and the CLV-SSTV window opens on the RECEIVE tab.



A Robot 36 picture arriving: below, the mode and the lines received (94/240), the radio frequency and mode.

- Modes received: Martin M1 and M2, Scottie S1, S2 and DX, Robot 36, PD 50, 90, 120, 160, 180 and 240.
- `SAVE IMAGE`, `ROTATE ⟳`, `FOLDER`, `EXIT ✕`; a click on the picture enlarges it.
- Complete pictures are saved by themselves as JPG in Documents → CLV Rig Control → Immagini.

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Transmitting



1. RECEIVE and TRANSMIT tabs
2. Preview: at the top the strip with your callsign and «CLV-SSTV v1.01»; click a text to select it, then drag it
3. READY TEXTS: CQ, QSL, 73, TNX, CQ DX, PSE K
4. BACKGROUND: `MY PHOTO` or `COLOUR ONLY`
5. `LOAD IMAGE ▸`: JPG, PNG or BMP
6. SSTV MODE, with the duration
7. SELECTED TEXT (top, bottom, TEXT); `✕ REMOVE`
8. Text, size, colour, font and style (bold, italic, outline, shadow)
9. AUDIO OUTPUT TO THE RADIO and LEVEL: the ALC must stay low, as in FT8
10. BEFORE TRANSMITTING: the reminders
11. Status, `▶ TRANSMIT` and `■ STOP`
12. `SAVE TX IMAGE`; transmitted pictures are also saved by themselves

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How to transmit

1. Choose a free SSTV frequency, e.g. 14,230 kHz, and listen first to make sure it is free. The radio goes in **USB** (LSB on 80 and 40 m). The program also transmits in DATA-U and DATA-L; in any other mode it does not start and tells you to put the radio in USB or LSB. It never changes the mode by itself.
2. Reduced power: SSTV transmits continuously for 1–4 minutes; 30–50 W recommended.
3. Press `▶ TRANSMIT`: the program always asks for confirmation, with mode, duration and power. The PTT is driven by the program via CAT and stays on for the whole picture, even beyond the automatic TX off.
4. `■ STOP`, or the program PTT key, stop at once.

> **⚠ Audio from the PC in USB: the radio menu**
>
> From the factory the FTDX10 in USB and LSB transmits the **microphone** audio (RADIO SETTING → MODE SSB → SSB MOD SOURCE = MIC, p. 87 of the manual). To put the CLV-SSTV audio on the air set **SSB MOD SOURCE** = **REAR** and **REAR SELECT** = **USB**; the level is set with RPORT GAIN while watching the ALC. With REAR the panel microphone is disabled: to go back to phone set SSB MOD SOURCE = MIC again.

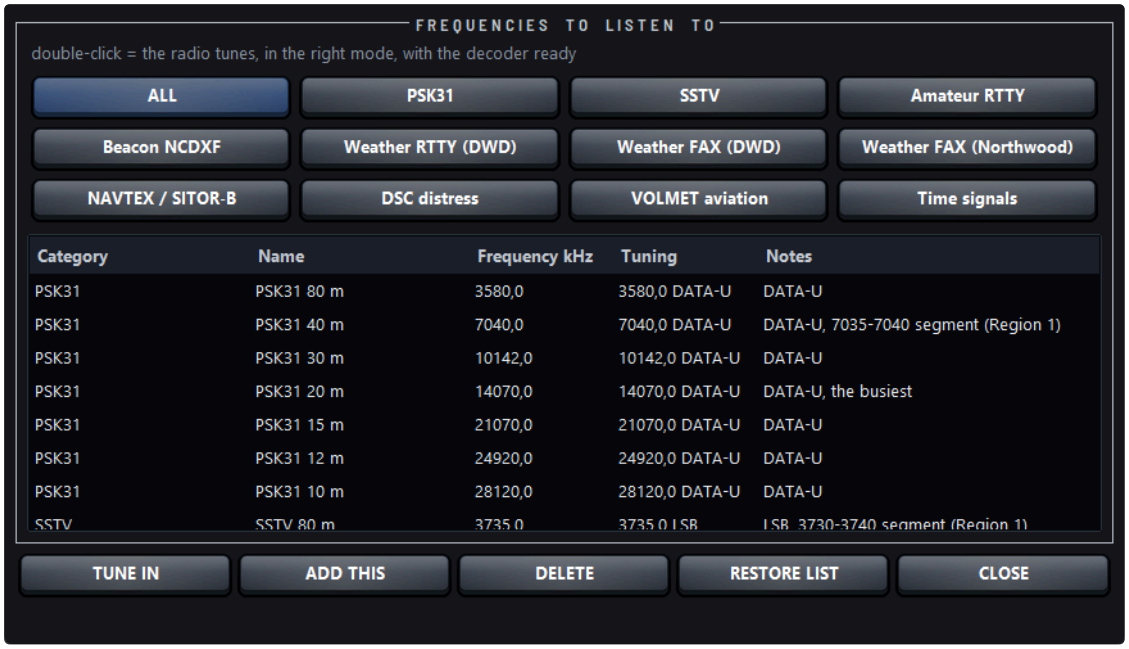
> **💡 Texts that can be read**
>
> The ready texts are already placed away from the strip at the top. For small pictures use bold and outline: on the screen of the receiving station they can be read even with a weak signal.

> **⚠ When transmitting**
>
> Check the frequency and the ALC and stay at the station while the picture goes out. The program asks for confirmation before transmitting.

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11 FREQUENCIES to listen to

A ready list of stations to receive with the decoder. Double-click on a row (or `TUNE IN`): the radio goes to the frequency in the right mode, and the decoder gets ready.



The decoder **FREQUENCY LIST** key.

Category	What you receive
PSK31, SSTV, Amateur RTTY	the amateur radio frequencies; PSK31 in DATA-U
Beacon NCDXF	to check propagation
Weather RTTY (DWD)	bulletins of the German weather service, in DATA-U: the radio goes 1.5 kHz below the station frequency (e.g. 10,099.3 kHz for 10,100.8), so the signal falls in the middle of the filter
Weather FAX (DWD), Weather FAX (Northwood)	weather charts: Northwood GYA on 2618.5 / 4610 / 8040 / 11086.5 kHz
NAVTEX / SITOR-B, DSC distress	warnings to mariners and distress calls
VOLMET aviation	weather for aircraft by voice: Shannon and RAF
Time signals	e.g. RWM Moscow 4996 / 9996 / 14996 kHz

The keys at the top filter by category (`ALL` shows them all). `ADD THIS` puts the radio frequency in the list; `DELETE` removes a row; `RESTORE LIST` brings back the original list.

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12 DX

CLV alerts you when the most wanted countries are on the air. The radio never moves by itself: it goes to the spot only when you press.

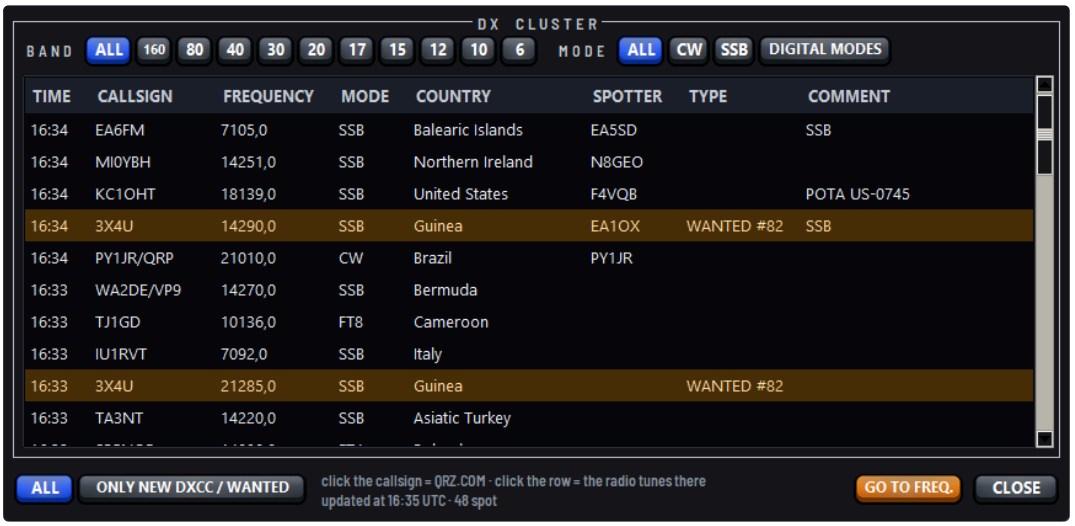
WANTED

The callsigns of the 100 most wanted DXCC countries (Club Log «Most Wanted» ranking, updated by itself every week) are highlighted with their position, e.g. «★ WANTED #7». Alerts come from the decoded text and from the radiometeo.com DX cluster, and appear in the SPOT block of the status bar, on the decoder alert row and in LATEST SPOTS. After 15 seconds the alert closes by itself.

From the alerts to the radio

1. `TUNE IN` (in the SPOT block or in the decoder): the radio goes to the spot frequency, in the right mode and with split if the spot says «UP».
2. A click on the callsign in the decoder puts it in the @ of the memories and in SAVE THE QSO.
3. Answer with memory F2 («@ DE IZ6CLV IZ6CLV K», with your callsign) or, for FT8 / FT4, with WSJT-X.

The DX CLUSTER window



DX CLUSTER ▸ , at the bottom next to HISTORY: all the spots of the last 30 minutes.

- BAND: ALL or a single band, from 160 to 6 m; MODE: ALL, CW, SSB or DIGITAL MODES.
- A click on the row takes the radio to the spot; a click on the callsign opens its page on QRZ.COM.
- `GO TO FREQ.` takes the radio to the chosen row (also with Enter). Below the list, the time of the last update and how many spots there are.

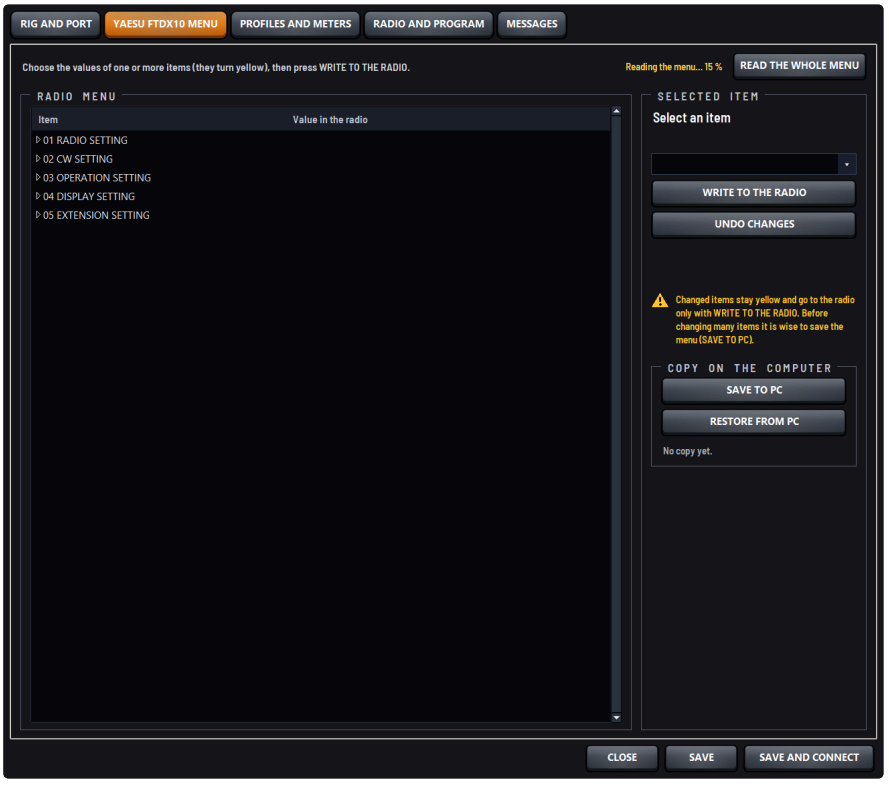
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13 SETTINGS

The SETTINGS key opens five tabs. At the bottom: CLOSE, SAVE and SAVE AND CONNECT: SAVE asks «Save the settings?» and then confirms with «Settings saved!».

Tab	What it is for
RIG AND PORT	port, speed, radio audio, TEST CONNECTION, CW FROM THE PC (chapters 3 and 14)
YAESU FTDX10 MENU	all the items of the radio menu
PROFILES AND METERS	audio and transmit profiles, meter check
RADIO AND PROGRAM	time zone, time, callsign, language, log, CAT sharing
MESSAGES	the texts of the radio CW, RTTY and DATA memories

YAESU FTDX10 MENU



The first time you open the tab, with the radio connected, the menu is read by itself (at the top «✓ Menu read at...»); READ THE WHOLE MENU reads it again (at the top you see how far it has got). The items are grouped as on the radio: RADIO, CW, OPERATION, DISPLAY and EXTENSION SETTING. Choose an item and the value: changed items turn yellow and go into the radio only with WRITE TO THE RADIO; UNDO CHANGES removes them. SAVE TO PC and RESTORE FROM PC keep a copy of the whole menu on the computer: make one before changing many items.

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PROFILES AND METERS



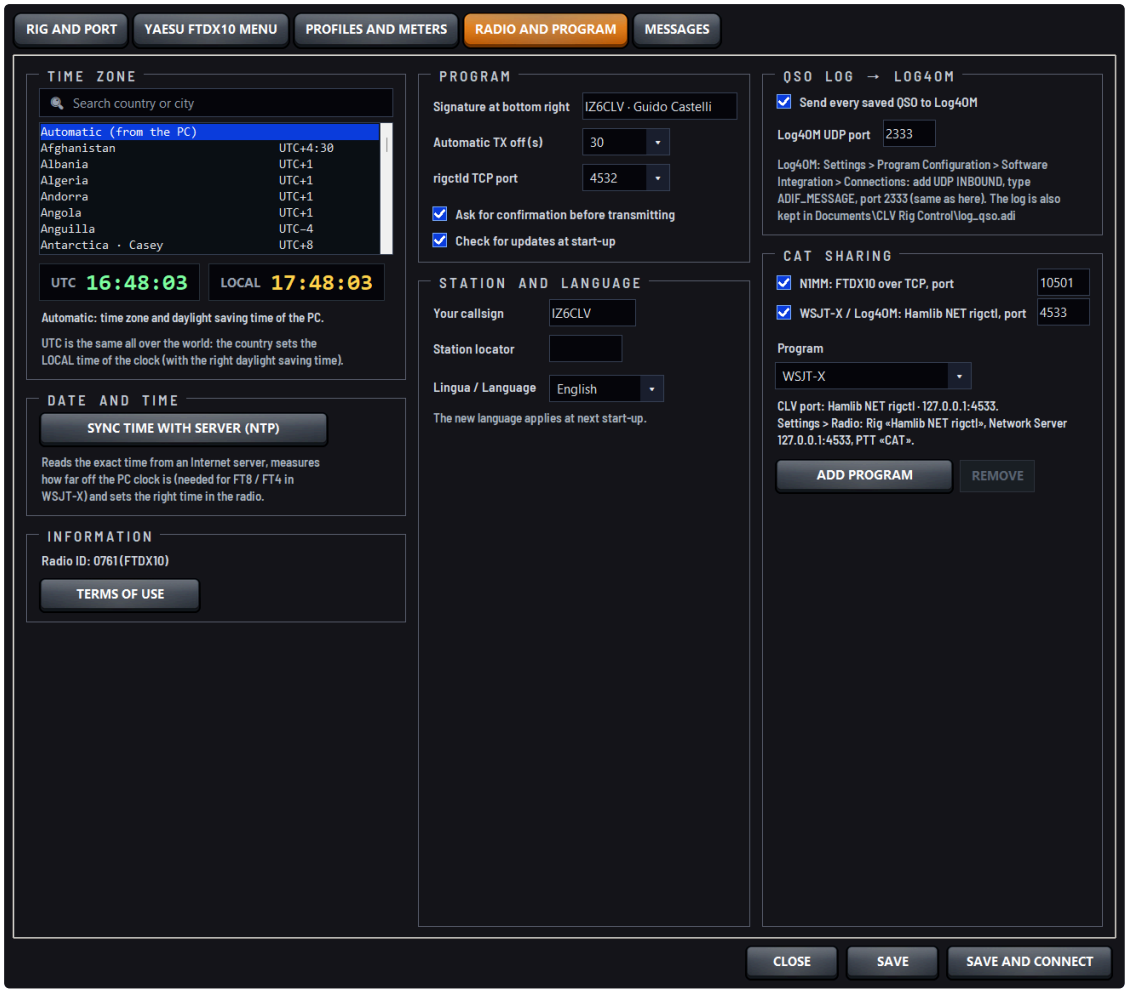
Audio and transmit profiles: the boxes show the radio values (SSB TX width and equaliser, transmit, receive, VOX, SSB receive tones). Change them here (changed boxes turn yellow) and press `WRITE TO THE RADIO`, or give a NAME and a NOTE and press `SAVE TO PC...` to keep them in a profile, for example «SSB DX» or «FT8». `LOAD PROFILE...` and QUICK PROFILES put them back into the radio. Before writing to the radio the program saves a copy of the previous values in Documents → CLV Rig Control → Profili - copie.

Meter check: use it if a CLV value (power, ALC, SWR…) does not match the radio. Transmit into a dummy load, on the radio choose the same meter with METER and compare the CLV VALUE column. If it does not match, correct it with − / +: the correction stays saved. `RESET CORRECTIONS` goes back to the default values.

> 💡 **Two boxes to leave as they are**
> With the FTDX10: «Polling (ms)» in RIG AND PORT, leave it at 250 (the FTDX10 is read fast anyway), and «rigctld TCP port» in RADIO AND PROGRAM → PROGRAM, do not touch it: it is only for the Multi-Radio version.

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RADIO AND PROGRAM



Box	What it contains
TIME ZONE	search for the country or city (also without accents) and choose it; «Automatic» uses the PC one. It is used for the LOCAL time of the clock, with the right daylight saving time; UTC is the same all over the world
DATE AND TIME	`SYNC TIME WITH SERVER (NTP)`: measures how far the PC clock is off (needed for FT8 / FT4 in WSJT-X) and puts the right time into the radio
INFORMATION	radio identifier and `TERMS OF USE`
PROGRAM	signature at bottom right, automatic TX off, confirmation before transmitting, update check
STATION AND LANGUAGE	your callsign, the locator, the language (applied at the next start)
QSO LOG → LOG4OM	chapter 16
CAT SHARING	chapter 15; choose the program and read how to set it up

MESSAGES

The texts of the radio memories (50 characters at most): 5 CW KEYER MEMORIES, 5 RTTY MESSAGES and 5 DATA MESSAGES (PSK). `READ` takes them from the radio, `WRITE` saves them in the radio.

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14 Automatic transmissions and contests

Keyboard memories, repeated messages and CW / RTTY generated by the PC: for calling CQ, for contests and for quick answers.

> ⚠ **First of all: your callsign**
> In SETTINGS → RADIO AND PROGRAM → «Your callsign» type your callsign and press `SAVE`. The messages use it instead of mine. Without a callsign the messages do not start: the program asks you for it.

The decoder memories (F1–F8)

Each mode (CW, RTTY, DATA) has its own 8 memories. They are sent with a click or with the F1–F8 keys of the keyboard: the key that is transmitting has a red LED. To stop press the same key again or the `RX` key (while transmitting it becomes STOP/TX). A line goes out as it is written at that moment, even without saving it.
In the texts @ becomes the callsign of the other station (CALLSIGN box, or click on a received callsign) and # the serial number.

Key	Name	Starting text in CW (with your callsign)
F1	CQ	CQ CQ CQ DE IZ6CLV IZ6CLV K
F2	ANSWER	@ DE IZ6CLV IZ6CLV K
F3	REPORT	@ 5NN # K
F4	73	@ TU 73 DE IZ6CLV K
F5	QRZ?	QRZ? DE IZ6CLV K
F6	callsign	IZ6CLV
F7	REPORT	@ TU 5NN
F8	REPEAT	AGN AGN

`TEXTS F1/F8` opens and closes the text rows; change the text and press `SAVE TEXTS`.

MANUAL TX

It transmits while you type, in CW and RTTY: with the space the word just finished goes out, with Enter all the rest. You can type even while an F1–F8 message is going: the text is queued. `RX` stops everything.

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AUTO CQ

1. In the AUTO CQ tab (chapter 6) choose the message: CW TEXT, CW KEY, RTTY, DATA or VOICE, and the number 1–5.
2. REPEATS: how many times (0 = forever). PAUSE BETWEEN SENDS, in seconds: it is the time to hear who answers.
3. Press `PTT-TX`: it turns red during the calls and the display says how far it has got.
4. It stops with PTT-TX, with Esc (from any program window) or with the PTT; the message already started finishes.

CW and RTTY from the PC

With the FTDX10 the CW of the memories and the RTTY messages (FSK) are generated directly by the program on the **Standard COM Port**. The advantage: `RX` and the F key that is transmitting stop the transmission at once, even in the middle of a letter.

Nothing to set: with **«FTDX10: automatic»** ticked (SETTINGS → RIG AND PORT → CW FROM THE PC) the program finds the port and sets the PC KEYING menu (or RTTY SHIFT PORT) to DTR only during the message, then puts it back as it was. By hand: keying port, DTR line and speed, and on the radio CW SETTING → PC KEYING = DTR. Without CW from the PC (and always in DATA) the text goes into the radio memories: F1–F5 into memories 1–5, F6–F8 rewrite memory 5.

Before transmitting	What the program checks
The radio mode	it never changes it: CW only in CW-U/L, RTTY in RTTY-L/U, DATA of F1–F8 only in PSK (AUTO CQ in DATA also works in DATA-L/U). If the mode is different the message does not start and the program tells you
BK-IN	in CW the program switches it on and it stays on; it is switched off with the BK-IN key of the CW tab
Serial number #	it starts from 001 and goes up only when the message really goes out; the SERIAL (#) box is there only with CW from the PC «By hand»

> ⚠ **Before transmitting automatically**
> Check that the frequency is free and that you can stop at once. Always stay at the radio while the program transmits: you are responsible for what goes on the air.

> 💡 **With N1MM**
> In real contests use N1MM linked to CLV (chapter 15): CLV is the bridge to the radio, N1MM handles the log, the numbers and the contest memories.

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15 Linking other programs

With CLV Rig Control Master, WSJT-X, Log4OM and N1MM stay open together on the same radio, without «port busy» errors.

Only CLV opens the radio COM port and acts as a «switchboard». The other programs connect to CLV through two network ports inside the PC (address `127.0.0.1`, that is «this same computer»). CLV passes the commands to the radio one at a time, and everybody always sees the same frequency.

Program	Where to set it	What to choose
WSJT-X	File → Settings (F2) → Radio	Rig «Hamlib NET rigctl», Network Server `127.0.0.1:4533`, PTT CAT, Mode Data/Pkt, then Test CAT
Log4OM 2	Settings → Program Configuration → CAT Interface → Hamlib	«Connect to active HAMLIB instance», port 4533, then Save and apply
N1MM Logger+	Config → Configure Ports… → Hardware	Port TCP, Radio FTDX10, `127.0.0.1:10501`
JTDX, JS8Call, fldigi, MSHV	radio settings	Rig «Hamlib NET rigctl», `127.0.0.1:4533`

JTDX, JS8Call, fldigi and MSHV use the same link as WSJT-X but have not yet been tested by a beta tester.

The ports in CLV

In SETTINGS → RADIO AND PROGRAM → CAT SHARING both ticks must be on: port 10501 for N1MM and port 4533 for WSJT-X and Log4OM. Choose the program in the «Program» list and read below how to set it up; `ADD PROGRAM` adds a program that is not in the list.

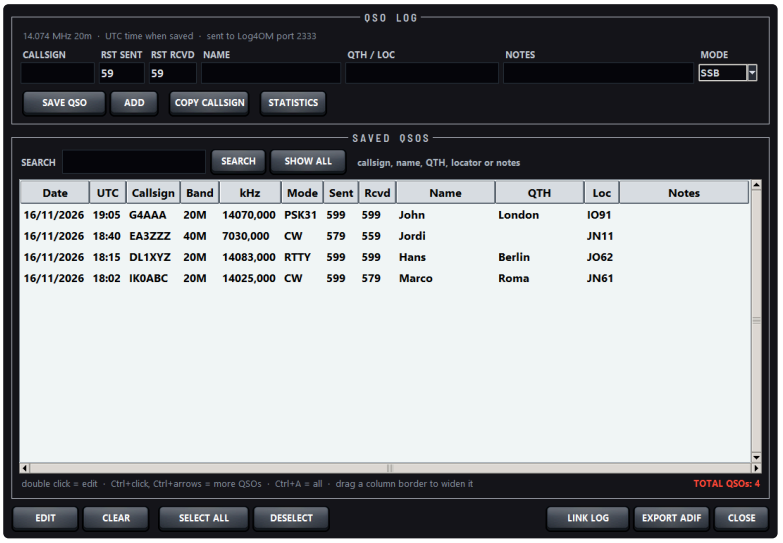
> ⚠ **Start-up order, always the same**
>
> 1) Open CLV Rig Control Master and connect the radio (at the bottom «CONNECTED»). 2) Only then open WSJT-X, Log4OM and N1MM. OmniRig and old splitters (VSPE) must stay closed.

> ✓ **How to tell that it works**
>
> Turn the radio knob: the frequency changes together in CLV, WSJT-X, Log4OM and N1MM. If a program does not connect, open `HISTORY ▾`: there is a line for each program that connects or sends a wrong command.

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16 QSO LOG

A simple log: frequency, band, mode and UTC time are taken from the radio, you type callsign and reports. It opens with `OPEN LOG` in the decoder; the QSO can also be saved from SAVE THE QSO in the decoder. The LOG also saves without the radio connected, with the frequency at 0.



Key	What it does
SAVE QSO	saves to the file Documents → CLV Rig Control → log_qso.adi and, if enabled, also to Log4OM
ADD / COPY CALLSIGN	clears the fields for the next QSO / copies the callsign
STATISTICS	summary, bands, modes, DXCC countries, continents and years; EXPORT CSV saves them to a file
SELECT ALL / DESELECT	selects or deselects all the QSOs in the list
SEARCH / SHOW ALL	searches by callsign, name, QTH, locator or notes
EDIT / double-click	corrects a QSO in the fields at the top
CLEAR	removes the selected QSOs (Ctrl + click to select more than one), with confirmation; first it saves a copy of the log
LINK LOG	chooses the log of another program found on the PC: CLV only reads it and every 30 seconds adds the new QSOs to the QSO LOG. OTHER ADIF FILE chooses an ADIF file or the Log4OM .sqlite database; UNLINK LOG detaches it (with confirmation)
EXPORT ADIF	creates an ADIF file to import into any logging program

Automatic sending to Log4OM

In CLV: SETTINGS → RADIO AND PROGRAM → QSO LOG → LOG4OM, tick «Send every saved QSO to Log4OM», port `2333`. In Log4OM: Settings → Program Configuration → Software Integration → Connections, add a UDP INBOUND connection, type ADIF_MESSAGE, port 2333, and save.

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17 Common problems

What happens	What to do
It does not connect, «access denied», «port busy»	Another program has the port: close WSJT-X, Log4OM, N1MM, OmniRig. Often another copy of CLV is still open: close all the windows; if that is not enough, restart the PC.
The frequency does not follow the radio	Speed different from the radio CAT RATE, or the «Standard COM Port» is chosen instead of the «Enhanced» one. Use `TEST CONNECTION` (chapter 3).
«The radio refused the command...»	That function does not exist in the mode in use (e.g. CONTOUR in FM, MIC GAIN in CW). It is not a fault.
Waterfall frozen, decoder silent	SETTINGS → RIG AND PORT → radio audio: choose «USB Audio CODEC». Also check that the Windows recording volume is not at zero.
The decoder prints little or nothing	Check that decoder and radio are in the same mode, the volume and the filter. Record 1–2 minutes with `● REC AUDIO` and attach the file to the report (next page).
WSJT-X / Log4OM / N1MM do not connect	CLV must be open and CONNECTED before them; ports 4533 and 10501 (chapter 15).
The memory CW does not stop at once	You need CW from the PC: CW FROM THE PC in SETTINGS → RIG AND PORT (chapter 14).
In SSTV the radio transmits without audio	Menu SSB MOD SOURCE = REAR and REAR SELECT = USB (chapter 10).
Meters different from the radio	SETTINGS → PROFILES AND METERS → METER CHECK (chapter 13).

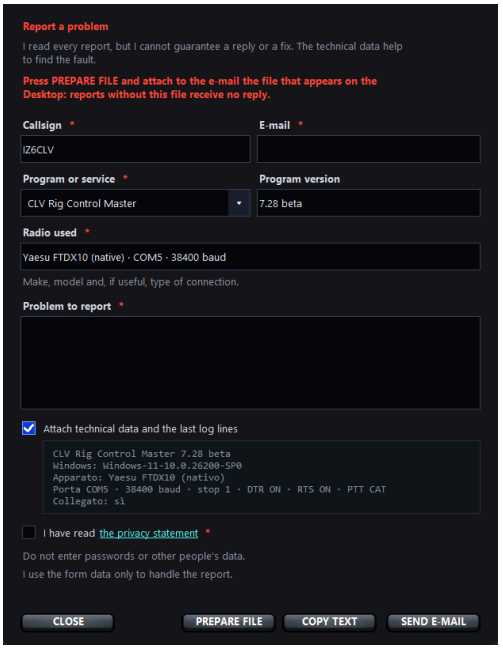
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Reporting a problem

> **⚠ The only way: «Report a problem», with the log files**
> A program fault is reported **only** with **Report a problem**, at the bottom of the main window. The report must **always have the file with the logs attached**, which the **PREPARE FILE** key creates (point 2 below): **reports without these files receive no reply**. Without the logs I cannot see what happened between the program and the radio.

1. Press **Report a problem**. Type callsign, e-mail, rig and the description: what you were doing, what you expected and what happened, with the radio frequency and mode. Leave the tick that adds the technical data and the last lines of the HISTORY (they contain no passwords).
2. Press **PREPARE FILE**: the file `CLV_segnalazione_CALLSIGN_date.zip` appears on the Desktop and the folder opens. Inside there are the full text of the report and **all the log files** of the program, with the settings without secret data.
3. Press **SEND E-MAIL**: your mail program opens with the message ready for info@radiometeo.com. **Attach the zip file** (drag it into the message) and send. If the mail program does not open, press **COPY TEXT**, paste the text (Ctrl + V) into an e-mail to info@radiometeo.com and attach the zip. If the zip is not created, attach by hand the files of the folder `%APPDATA%\PannelloCAT` (Windows + R, type the name and press Enter): `errori.log` and the `registro_…` files.
4. Decoder problems: record 1–2 minutes of the signal with **● REC AUDIO** and attach that file too. Connection problems: also attach the text of **COPY DIAGNOSIS** (chapter 3).
5. If you can, add a photo of the radio display **before and after** the problem.

> **⚠ No support**
> The program is free and no support is provided, also for those who have donated. Complete reports are welcome and I read them all, but they do not oblige me to reply, to fix the program or to adapt it to a particular radio.



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18 What's new in 7.28 and free program

Where	What changes
Free	all functions, decoder included, for everyone and with no time limit; no trial period and no activation code
Waterfall	in a separate window with `DETACH` (or WATERFALL in the compact view), `ATTACH` to put it back in the display
Frequency	clicking a digit selects exactly that one, also with a wide window
Compact view	6 knobs instead of 3; on small screens the full view shrinks by itself
Decoder 1.01	RTTY without random letters on noise; WEFAX in AUTO more stable; new layout with F1–F8 on one row and TEXTS F1/F8
AUTO CQ	text written in the tab (SAVE TO MEMORY), PTT-TX key, RTTY, DATA and VOICE with RECORD VOICE; the DATA / VOICE tab is gone
Log	QSO LOG instant even with thousands of QSOs; REC AUDIO with its own window
Knobs	when you turn a knob on the radio CLV shows it in about one second instead of 4–5; smoother S-meter
Time zone	SETTINGS → RADIO AND PROGRAM: LOCAL clock of the country or city you choose, with the right daylight saving time (chapter 13)
Profiles and meters	SETTINGS → PROFILES AND METERS: audio and transmit profiles saved on the PC and METER CHECK (chapter 13)
Memories and waterfall	`SAVE ▸` in MEMORIES / SCAN saves frequency and mode; a click on the detached waterfall tunes there too
Report a problem	renewed form with PREPARE FILE; no support, also after a donation: reports are all read but do not oblige any fix (chapter 17)

The donation



CLV Rig Control Master is free. If you find it useful you can support it with the `DONATE` key: type the amount you like and press `DONATE WITH PAYPAL`, which opens the secure PayPal page (PayPal account or card). The donation is free and optional and does not unlock anything: it covers the website, the servers and the development tools.

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19 Warnings and responsibility

To read before transmitting with the program.

> ⚠ **Beta version**
>
> CLV Rig Control Master is a beta version: it is being developed and tested, it may contain errors and its functions may change. It is used as it is, without warranty.

Operator responsibility. Whoever transmits is responsible for frequency, mode, power and content of the transmissions, and for respecting their own licence and the rules of their own country. This also applies to repeated messages, SSTV pictures and transmissions started by the program.

Equipment. I take no responsibility for damage to the radio, amplifier, antenna, computer or other equipment, for loss of data or for any other damage, direct or indirect, due to the use or misuse of the program.

Improper use. The program is made for radio amateurs and for listening. Any other use, or any use not allowed by the rules, is the sole responsibility of whoever does it.

Radio menu and memories. Before changing items with SETTINGS → YAESU FTDX10 MENU, save a copy (SAVE TO PC). Before writing the memories the program saves a copy, but keep one of your own too.

Transmission. Always check that the frequency is free; keep the automatic PTT shut-off active and stay at the station.

Recordings. Audio recordings stay on your PC; use them respecting the rules on the privacy of communications.

Support and reports. The program is free and no support is provided, also for those who have donated. Faults are reported only with «Report a problem», attaching the PREPARE FILE file with the logs (chapter 17): without these files the report receives no reply. Reports do not oblige the author to reply, to fix the program or to adapt it to a particular radio.

External data and services. DX cluster, propagation, Club Log and the country files depend on internet services that may be temporarily unavailable or not accurate.

The full terms are those you accept at installation; read them again with **Terms of use** at the bottom of the main window.

CLV Rig Control Master is an independent program, not affiliated with or endorsed by Yaesu Musen. The names of radios and programs belong to their respective owners.

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73 and good QSOs!
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