

SILVER_SHADOW

Expanding Your Communication

IC-7300 CONTROL

User Manual

Installation, Icom settings, operation, licensing and updates

Manual v1.0 EN - Early Access baseline - 27 August 2026

This manual is written for the Silver Shadow Founders/Early Access line. Button positions and additional functions may change slightly between software updates.

1. About Silver Shadow

What is Silver Shadow?

Silver Shadow is a standalone Windows control console for the Icom IC-7300. It communicates directly with the radio over USB/CI-V and is designed around fast one-click operation: frequency/band, modes, live radio information, meters, scope/waterfall, presets and Roger Beep/voice-memory functions in one clear interface.

- Direct CI-V connection to the IC-7300; Win4Icom is not required for normal operation.
- One-click frequency and band presets, including the 11m/CB channel view present in the installed release.
- Direct 27.555 MHz USB quick selection in releases that include this preset.
- Live S-meter, PWR, SWR and ALC readout, depending on current radio state and software release.
- Spectrum/waterfall display and clickable QSY where supported.
- NEXT ACTIVE for quickly moving to detected activity where enabled in the release.
- Radio functions such as ATT, NB, AGC and volume control where supported.
- Auto Roger / voice-memory selection T1-T8, TEST and adjustable delay where the module is active.
- High SWR warning during TX where the radio provides the required measurement data.
- Multiple amateur bands and quick presets; the installed version is authoritative for exact preset frequencies.

Important

Silver Shadow is not a radio license and does not change the operator's legal transmitting privileges. The fact that the software can select a frequency does not mean that transmission on that frequency is permitted.

2. System requirements

Component	Requirement / recommendation
Computer	Windows 10 or Windows 11, standard x64 PC with a suitable USB port.
Radio	Icom IC-7300. Other models are supported only when explicitly listed for the relevant Silver Shadow release.
Connection	USB A-to-B data cable between the PC and IC-7300. Use a reliable shielded data cable.
Driver	Official Icom USB driver for the IC-7300.
Internet	Required for purchase/download, license activation and update checks. Normal radio operation may run locally after activation where supported by the release.
Radio settings	CI-V address 94h, USB CI-V at 115200 bps, USB port Unlink from [REMOTE], Echo Back OFF, USB Serial Function CI-V.

3. Preparation: install the Icom USB driver

1. Download the official IC-7300 USB driver and installation guide from Icom support.
2. Install the driver according to Icom's instructions. Where instructed for your Windows configuration, install the driver before connecting the radio by USB for the first time.
3. Connect the IC-7300 USB-B port to the computer and power on the radio.

4. Open Windows Device Manager and check “Ports (COM & LPT)” for the COM port assigned to the Icom USB UART/serial interface.
5. Note the COM number, for example COM3 or COM7. The actual COM number differs between computers.

Note

Do not automatically use an IC-7300MK2 driver for the original IC-7300. Icom maintains separate driver lines for these models.

4. Required IC-7300 CI-V settings

Open the IC-7300 SET menu and locate the CI-V/USB settings under Connectors. Exact menu presentation may differ slightly by firmware. Use the following baseline for Silver Shadow:

IC-7300 setting	Silver Shadow value	Reason
CI-V Baud Rate	Auto	General CI-V speed; the separate USB setting below controls the high-speed USB link.
CI-V Address	94h	Default CI-V address of the IC-7300.
CI-V Transceive	ON	Allows radio changes to be transmitted/synchronised as CI-V status.
CI-V USB -> REMOTE Transceive Address	00h	Default/general setting for USB remote transceive.
CI-V USB Port	Unlink from [REMOTE]	Important for independent full-duplex USB CI-V and high data rate.
CI-V USB Baud Rate	115200	Silver Shadow uses the high-speed USB CI-V connection; important for scope/status data.
CI-V USB Echo Back	OFF	Avoids unnecessary echo of transmitted CI-V data.
USB Serial Function	CI-V	The USB serial function must provide CI-V data.
USB SEND	OFF	Recommended when Silver Shadow controls the radio through CI-V and RTS/DTR PTT is not required.
USB Keying (CW)	OFF	Recommended unless other software intentionally uses this function.
USB Keying (RTTY)	OFF	Recommended unless other software intentionally uses this function.

Why “Unlink from [REMOTE]” + 115200?

For the high-speed USB link, Icom provides an Unlink from [REMOTE] mode that allows the USB CI-V connection to operate independently at up to 115200 bps. This is especially relevant to spectrum/scope data.

5. First connection to Silver Shadow

1. Start the IC-7300 and wait for Windows to make the USB COM port available.
2. Start Silver Shadow.
3. Use the LANGUAGE dropdown to select "EN - English" if English is not already active. The selection is stored for the next start.
4. Open the RADIO CONNECTION section and select the COM port assigned to the IC-7300 by Windows.
5. Confirm that the connection speed is 115200 bps.
6. Click CONNECT.
7. Confirm that the current radio frequency, mode and RX/TX state appear in Silver Shadow.
8. Turn the radio VFO once. The frequency displayed in Silver Shadow should follow the radio.
9. Click a safe preset in Silver Shadow. The IC-7300 should switch to the selected frequency/mode.

Exclusive COM port

Normally only one application can open the same serial COM port at a time. Close RS-BA1, HRD, Win4Icom or other CAT software if it is using the same IC-7300 COM port. Silver Shadow is designed for a direct connection and does not require Win4Icom.

6. Interface overview

Area	Function
Header/status	Shows radio connection, RX/TX, mode, filter and supported status fields such as ATT/NB/AGC/volume.
Frequency/band	Large current-frequency display and direct band/preset selection.
Channel/preset grid	One-click selection of predefined frequencies; the 11m view can provide channels 1-40 and special presets.
Scope/waterfall	Visual spectrum activity. Clickable QSY is available where supported by the build.
Meters	Live S-meter; during TX, PWR, SWR and ALC may be shown when supplied by the radio.
NEXT ACTIVE	Searches/moves to a next detected active position when the function is enabled.
AUTO ROGER	T1-T8 selection, on/off, test and delay for the Roger Beep/voice-memory function.
RADIO CONNECTION	COM selection, connect/disconnect and connection speed.
LANGUAGE	Dropdown for NL - Dutch or EN - English. The selected language is remembered.
TOOLS	Additional radio functions that can be expanded by release.

Language switching

The language switch changes visible labels, status messages, error messages, Voice/Audio Lab text and the built-in phone web interface where applicable. Radio-control logic does not change when the language is switched.

7. Frequencies, channels and bands

- Click a band selection to send the radio to the preferred/start frequency and mode configured for that build.
- In the 11m view, click a channel number to select its linked frequency. The installed release is authoritative for the current channel table.
- The 27.555 button, where present, immediately selects the configured 27.555 MHz USB preset.
- Special presets and amateur-band selections may apply mode/filter or other settings in addition to frequency.
- Use the button state and large frequency display as confirmation, and always check the IC-7300 itself before transmitting.

Operating rules

Different legal rules apply to 11m/CB, freeband, amateur bands and other frequencies. The operator must verify that the radio, frequency, mode and power are permitted for their situation.

8. Scope, waterfall and NEXT ACTIVE

- The scope uses CI-V/spectrum data from the IC-7300. This is why 115200 bps and Unlink from [REMOTE] are important.
- Where clickable QSY is enabled, clicking/tapping a position in the scope can tune the radio to that position.
- NEXT ACTIVE is intended to move more quickly through visible/detected activity. It is an aid and cannot guarantee that every station will be detected.
- Scope behaviour depends on radio span, noise level, signal strength and the current Silver Shadow build.

9. Live meters: S, PWR, SWR and ALC

- S-meter: displays received signal strength when the IC-7300 supplies the measurement through CI-V.
- PWR: during TX, displays the power indication reported by the radio.
- SWR: during TX, displays the SWR indication reported by the radio. A software warning is supplementary; independently verify the antenna system.
- ALC: displays the radio ALC indication during voice/TX. There is no universal ideal percentage for every microphone and mode; adjust audio for clean modulation and follow Icom guidance.

Audio settings

Silver Shadow does not require one fixed MIC GAIN, COMP or ALC value for every user. Do not treat another station's personal microphone settings as a universal standard.

10. Auto Roger / T1-T8

- Select AUTO ON to enable the automatic Roger Beep/voice-memory function in the installed build.
- Select T1 through T8 for the required memory slot.
- Use TEST to check the selected tone/voice-memory in a controlled manner before enabling AUTO.
- ROGER DELAY sets the time between the end of the voice transmission and the selected Roger Beep/voice-memory action. 0 ms means direct control where supported by the build.
- After changes, test first at a low/safe power level and on a permitted test frequency or suitable dummy load.
- If another CAT application or macro also sends TX/voice-memory commands, interaction may occur. Prefer testing Silver Shadow without competing CAT software.

11. ATT, NB, AGC, volume and other radio functions

- ATT controls the RF attenuator where supported by the radio and release.
- NB controls the Noise Blanker where supported.
- AGC status and available AGC selection follow the radio and current build capabilities.
- Volume can be displayed and/or adjusted from the console when enabled in the build.
- Use TOOLS for additional radio functions that do not need to remain permanently on the main screen.

12. License and activation

License rule

1 Silver Shadow License is valid for 1 computer. Three computers require three separate licenses. All licenses may still be linked to the same Customer email address and PayPal account.

1. After PayPal payment, the Customer receives one unique license key for each License purchased.
2. Enter the key during first activation.
3. The license server binds the key to a pseudonymised/hashed Device ID for that computer.
4. When replacing the computer, deactivate/reset the old activation and activate the same key on the replacement computer owned by the same Customer.
5. Never publish a license key or include the full key in screenshots, forums or public support posts.
 - Founders/Early Access includes Beta updates, Silver Shadow 1.0 and updates throughout the 1.x release line.
 - A future 2.0 major release is included only if this is expressly announced later.

13. Updates

1. Silver Shadow may check the current version at startup or through CHECK FOR UPDATES.
2. When a newer version is available, the application displays an update message or download option.
3. The license server checks whether the license key is entitled to the relevant update.
4. Download and install the update; disconnect the radio cleanly before an update replaces the application.
5. Read the changelog where available, especially when an update changes radio settings, CI-V behaviour or presets.

14. Troubleshooting

Problem	Check / solution
No COM port visible	Check the Icom USB driver, USB data cable, another USB port and Windows Device Manager. Do not use a charge-only cable.
COM port visible but no connection	Check the correct COM port, 115200 bps, CI-V Address 94h, USB Serial Function CI-V, Unlink from [REMOTE] and Echo Back OFF.
"Access denied" / port in use	Close other CAT software that has opened the same COM port and restart Silver Shadow.
Frequency changes in app but radio does not respond	Check connection/status, CI-V address and baud rate. Disconnect and reconnect.
Radio changes but app lags behind	Check CI-V Transceive ON and 115200 bps; avoid poor USB hubs or cables.

Problem	Check / solution
Scope/waterfall empty	Check Unlink from [REMOTE] + 115200 and confirm that scope support is active in the installed build.
Meters remain at zero	Some TX meters only provide data during TX. Check radio state and the installed build.
Auto Roger does not work	Check AUTO ON, selected T slot, TEST, delay and that no other CAT software controls the radio simultaneously.
Unexpected TX or voice-memory action	Turn AUTO off, disconnect and check other CAT applications/macros. Retest without competing software.
High SWR warning	Stop TX and check antenna, coax, tuner and the radio's SWR indication. Do not use the software warning as a substitute for hardware checks.
License already activated	The key is already bound to another Device ID. Deactivate the old computer or request a reset for a replacement computer.
Update not available	Check internet access, license status, firewall and whether the update is included in the purchased edition.

15. Safe test procedure after installation

1. Connect in RX first and verify frequency/mode synchronisation without transmitting.
2. Test band and preset selections on frequencies that are safe to receive.
3. Check the scope, S-meter and status fields.
4. For TX tests, use a permitted frequency, suitable power and a correctly matched antenna or suitable dummy load.
5. Test PWR/SWR/ALC and Auto Roger only after basic CI-V control is reliable.
6. If behaviour is unexpected: turn AUTO off, stop TX, disconnect the radio and resolve the cause first.

16. Quick setup card

Step	Setting
1	Install the Icom USB driver.
2	Connect the IC-7300 using a USB-B data cable.
3	Note the Windows COM port.
4	CI-V Address = 94h.
5	CI-V Transceive = ON.
6	CI-V USB Port = Unlink from [REMOTE].
7	CI-V USB Baud Rate = 115200.

Step	Setting
8	CI-V USB Echo Back = OFF.
9	USB Serial Function = CI-V.
10	Silver Shadow: select EN - English if desired.
11	Select the correct COM port, 115200 and CONNECT.
12	Verify VFO synchronisation.
13	Test a preset, then test TX functions only after basic control is confirmed.

17. Official technical references

The CI-V settings in this manual are aligned with official IC-7300 documentation and the high-speed USB configuration used for scope/remote data. Silver Shadow function descriptions are based on the current development line; the installed release and changelog remain authoritative for exact labels and available options.

Icom IC-7300 product / manuals / firmware - <https://www.icomjapan.com/lineup/products/IC-7300EUR/>

Icom USB Driver installation guide for IC-7300 - <https://www.icomjapan.com/support/manual/1768/>

Icom - Tips for the USB port settings (IC-7300 family) - available through the IC-7300 support page from Icom

Additional technical setup reference (wfview IC-7300) - <https://wfview.org/wfview-user-manual/ic-7300-setup/>

18. Support information

Item	To be completed / used
Support email	[SUPPORT EMAIL]
Download page	[DOWNLOAD URL]
Update endpoint	[TO BE COMPLETED FOR PRODUCTION]
Software edition	Founders / Early Access
License	1 license = 1 computer
Included major release line	Beta -> 1.0 -> 1.x

When requesting support

Send the Silver Shadow version, Windows version, IC-7300, COM port number, relevant CI-V settings and a short description/screenshot. Never send a complete license key in a public message.