

**Important Notice:** After update the firmware, you need to do the reset to the radio first, power off the radio first. Then power it on while holding the PTT and the PF1 button below the PTT at the same time. The radio will start up with a note on the display stating MCU Reset, Please Wait – and do not turn the radio off while it restarts.       \*\*\*\*\*   See the Separate FW Update Instructions for Details       \*\*\*\*\*

- Install the Customer Program Software (CPS) by running the **D890UV\_CPS\_Setup\_x.xx.exe** setup program in the CPS Program Folder
- After installing a new D890UV CPS version go to the top Menu -> Tool-> Options in the CPS to set GPS, BT, 500 Hour Record and APRS options as needed

**Please make sure the codeplug is saved to PC before your do the update and reset.**

### **D890UV firmware update V1.05 (dated 2026-5-20)**

#### Change List

1. Improve the analog APRS RX.
2. Resolve the issue that cross band repeat only passes audio in one direction in analog.
3. Improve the issue that “The digital monitor function on the 168 is far more effective and picks up way more than the 890UV.”
4. Resolve the issue that “Online Alert in group call 1.04 D890 not working”.
5. Resolve the issue that “Sending a DTMF code from the "Analog Address Book" only works in VFO A (upper VFO). On VFO B it simply does nothing.”
6. Improve the AM air band scan speed.
7. Resolve the issue that radio can't decode 2Tone when frequencies are close together (e.g., 18.5Hz gap).
8. Resolve the issue that BT03 wireless microphone doesn't work well.
9. Resolve the issue that 890UV doesn't allow time zone +9:30 and +10:30.
10. Modify the scan groups 50 channels limit to 100 channels limit.
11. Some user may have the APRS/NR version null after the NR board updating and can't enter into NR update mode again. Engineer modifies the firmware and adds a new mode to force the radio enter into NR board updating by pressing PF1+ PF3 and power on radio.
12. Resolve the issue that radio shows “Flash Error !! Check & Change” after the firmware upgrade.
13. Improve the BT KISS TNC function to work with APRSDroid.
14. Many user report the D890UV fails to connect on the first two PTT attempts when use a duplex MMDVM hotspot, especially when the MMDVM hold time set to 3-5s.

After the checking here, we found out that when the duplex MMDVM nearly reaches its hold time 4S, for example at 3.8 seconds it receives a repeater activation signal sent from the radio, the duplex hotspot will reply with a synchronization signal. The radio receives the synchronization signal and start transmission, however, there is a certain delay in sending the signal from pressing PTT to start transmitting. The hotspot already disconnects before it receives the transmission from the radio, resulting in the inability to forward the signal.

This issue can't be resolved by the D890UV firmware modification.

Recommend changing the MMDVM Duplex Hotspot Board setting as follows:

WPSD Dashboard - Admin > Advanced > Quick Editors > MMDVMHost > DMR > TXHang > 10

Pi-Star Digital Voice Dashboard - Configuration  
Expert > MMDVMHost > DMR > TXHang > 10

Firmware version: V1.05  
CPS version: V1.05  
NR board: V112 (no change)  
ICON version: V1.02  
SCT 3288 version: V3\_01\_01A6 (DMR mode) no change  
BT Version: 10024 (no change)

**D890UV firmware update V1.04 (dated 2026-3-7)**

Change List

15. Add the Freq Step in the key function, allows to fast access to the Frequency step.
16. Add the APRS/NR version information in the device setting.
17. Correct the issue that APRS prompt sound doesn't work.
- 18. Allows to mute the receiving channel when the other channel is transmitting. [Radio menu ->Setting->Voice Func 18.SubSpk in TX allows to turn on or turn off the receive audio.](#)**
19. Correct the issue that VHF receiving not working properly when AM RX is ON.
20. Correct the issue that send APRS beacons from APRSDroid, the APRS beacon has extra wrong number.
21. Make the Auto backlight working when radio is in the scan mode.
22. Correct the issue that Last Call display doesn't show the callsign.
23. Correct the date/time issue in UTC+0 and in professional mode.
24. Add the proper reply delay for SMS confirmation in NXDN mode.
25. Allows to set up the Freq Step for AM channel independently from the regular channels.
26. CPS->Optional Setting->Auto Repeater-> Repeater Whitelist, set OFF to allow all Talk Groups and Digital Contacts pass the Cross band repeater.

Firmware version: V1.04  
CPS version: V1.04  
NR board: V112  
ICON version: V1.01 (no change)  
SCT 3288 version: V3\_01\_01A6 (DMR mode) no change  
BT Version: 10024 (no change)

**D890UV firmware update V1.03 (dated 2025-12-25)**

Change List

27. Move the Weather Alarm menu to main menu, named at NOAA.
28. Resolve the issue that ARC4 code is incorrect in some situations
29. Improve the issue that CTCSS/DCS deviation is too big when a channel is using MDC1200.
30. Resolve the issue that TX preamble value in CPS is different from the value in device.
31. Modify Freq Sync function to make it able to detect the CTCSS/DCS, and the radio will remind whether to override the channel information in memory channel mode.
32. Resolve the issue that MDC1200 address book in radio doesn't match to the CPS setting.

33. Resolve the issue that CPS can't show the scan list correctly when read a big scan list from radio.
34. Resolve the issue that radio display is incorrect when turn off NOAA.

Firmware version: V1.03

CPS version: V1.03

ICON version: V1.01

SCT 3288 version: V3\_01\_01A6 (DMR mode)

BT Version: 10024