ARL2300LOCAL (WIN)

Sept.5, 2022

●Port
COM port number assigned by Windows to your USB connection. If two or more receivers are connected, click the drop-down menu and select the desired COM number / receiver.

●Connect
Click the Connect button to connect to your receiver and start controlling it.

●Quit
Click the Quit button to terminate receiver control. Settings will be saved.

●Remote Receiver Power OFF
If checked, upon disconnection the receiver is also turned off.

●MODE
Select receiver demodulation mode. AUTO enables automatic mode selection of IF-BW and STEP.
(AR5700D: Tetra GSSI group filtering not supported due to hardware limitation)

●IF-BW
Select IF bandwidth manually.

●ATT/AMP
Select input signal attenuation level or RF-Amp.
AUTO enables automatic selection.

●ANT
Select an antenna, or ANT-PRG.

●AF Gain
Adjust the volume by dragging the slider or hovering the mouse over the slider and scrolling the mouse wheel up or down.

●V/U SQL, HF SQL
Adjust the squelch level: Use HF SQL for frequencies below 25 MHz, and V/U SQL for over 25MHz.

●Spectrum Display (hidden by default)
Spectrum displayed in real time. Receive frequency is the center frequency.
Click on spectrum: Receiver is tuned to the clicked frequency.
Mouse wheel:
Change span of spectrum display (400kHz to 10MHz).

●SPAN
Select span of spectrum display (400kHz to 10MHz).

●OPEN
Check this box to open the spectrum window.

●Frequency
Change the receive frequency by either:
 - Hovering with the mouse over each digit and scrolling the mouse wheel up or down.
 - Entering the frequency via the PC keyboard + ENTER key or click [MHz] button.
 - Hovering with the mouse over the dial symbol and scrolling the mouse wheel up or down.

●Close button (X)
Closes this software window. However click the QUIT button first, otherwise settings will not be saved.

Main window UI

AR2300/AR5001D/AR5700D/AR6000-Control_4.2.9L_lite

Port \\.\COM4   Connect   Quit   ☑ Remote Receiver PowerOFF

VFO   T-TC   IFBW30kHz   RF AMP   ANT1

VFO-A   0461.150 000 MHz

☐ Search ☐ Memory ☐ Offset ☐ 2-Band

Freq. [   ] 📊 MHz   STEP[kHz] [25.0 ▾] BUSY   -120dB

AF Gain 0 50 100 150 200 250   V/U SQL 0 50 100 150 200 250   HF SQL 0 50 100 150 200 250

VFO
A: 461.15MHz | B: 128.8MHz | C: 0.81MHz | D: 80.0MHz | E: 81.3MHz | ↻

SpectrumDisplay
SPAN [10.0 ▾] MHz ☐ OPEN

SD Card
☐ Control

Command
☐ Terminal

Ready.

[ResetSize] [Digital options] [Receiver options]

●RESET SIZE
Click to revert the main window to default size.

●Digital options
(Only with AR5700D receiver)
Various settings regarding NXDN/DCR, DMR, P25 and TETRA signal decoding.

●Receiver options
For various settings regarding CTCSS, DCS, voice squelch, noise reduction, notch, noise blanker, AFC, HF preselection filter, AGC, RF gain, IF shift and analog voice descrambler.

●Search
Tunes through all frequencies between 2 specified frequency limits. Search instructions may be programmed into linkable "search banks".

●Memory
Create and scan banks of memory channels. Banks can also be linked.

●Offset
Simultaneously receive one main frequency and one sub-frequency within +/-5MHz from the main frequency. (Above 25MHz only)

●2-Band
Simultaneously receive one frequency below and one frequency above 25MHz.

●STEP [kHz]
To manually select a frequency step from the dropdown list.

●BUSY
Shows an open squelch. Grayed out when squelch is closed.

●S-Meter
Shows received signal level in dB.

●VFO-A, B, C, D, E
Select a VFO to operate on.
The curved arrow sign button does import all VFO content from the receiver.

●Command Terminal
Enable the terminal window for sending commands to the receiver. (Details chapter 7.3 in the ARL2300 Ethernet Controller user manual.)

●SD Card
When a SD card is inserted in the receiver, you can activate a recording, play back and delete audio files.
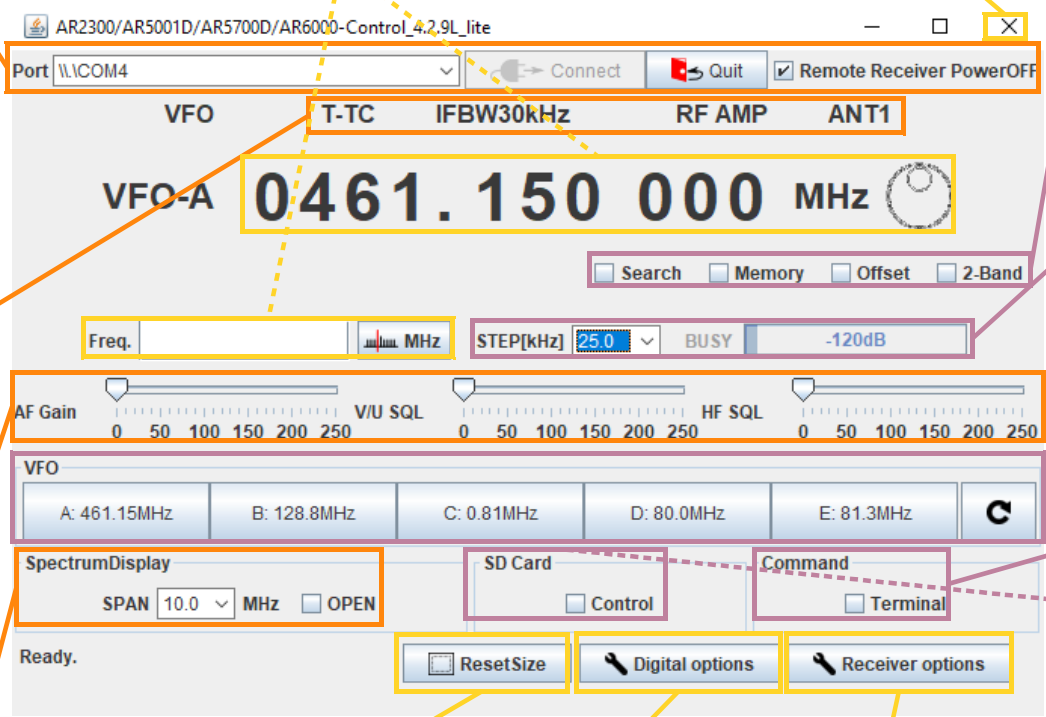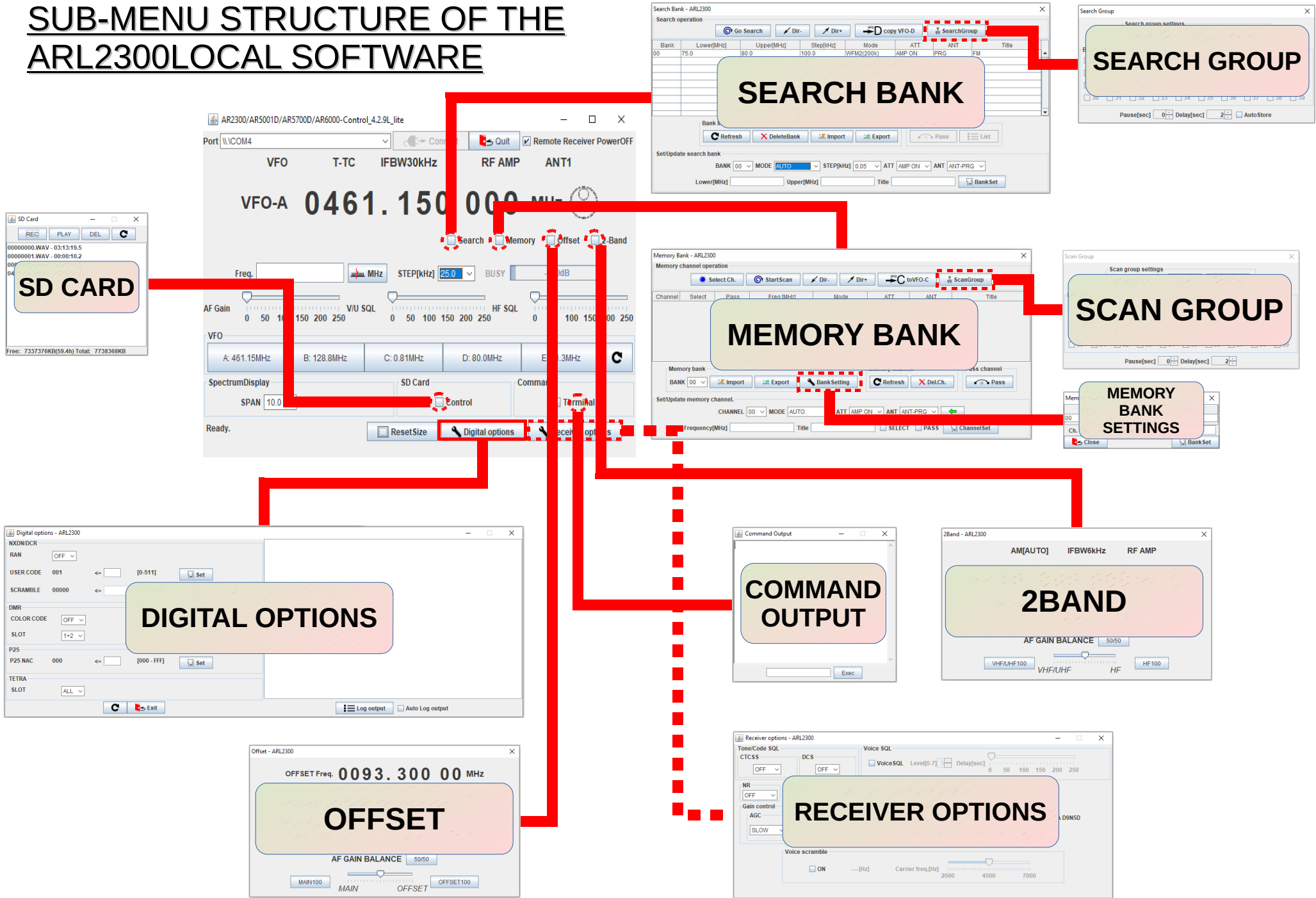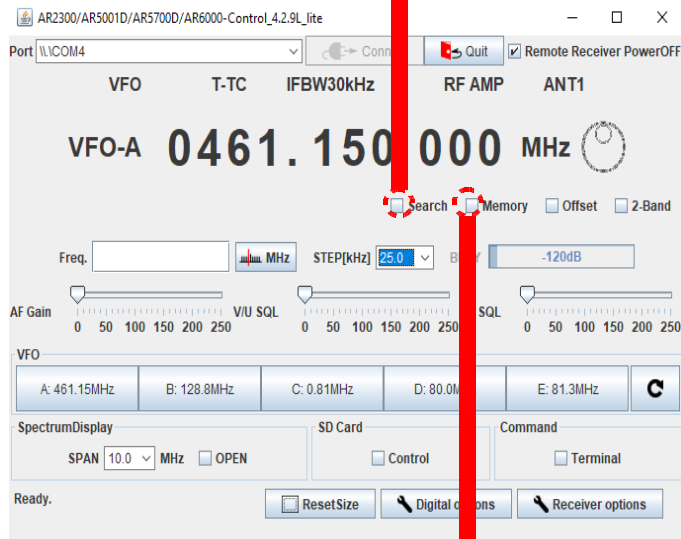
●Control
Check this box to access following parameters:

●REC
Click REC button to start recording. File name format according to date and time; "MMDDhhmm.WAV".
 Note: Same file names are overwritten.

●PLAY
Select a file and click PLAY button to start play back of the selected file.

●DEL
Select a file and click DEL button to delete the selected audio file.

●STOP
Click STOP button to stop recording or play back.

SUB-MENU STRUCTURE OF THE ARL2300LOCAL SOFTWARE

SEARCH BANK

SEARCH GROUP

SD CARD

SCAN GROUP

MEMORY BANK

MEMORY BANK SETTINGS

DIGITAL OPTIONS

COMMAND OUTPUT

2BAND
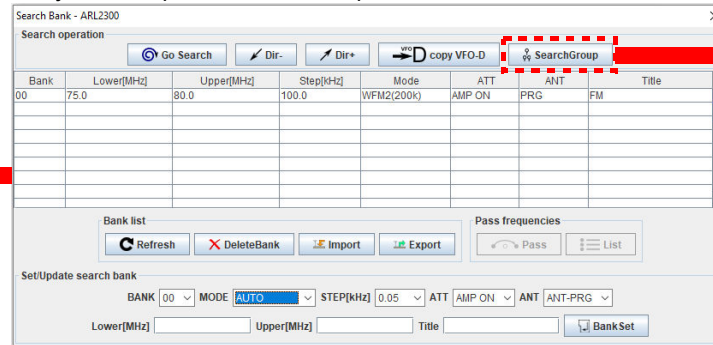
OFFSET

RECEIVER OPTIONS

How to program:
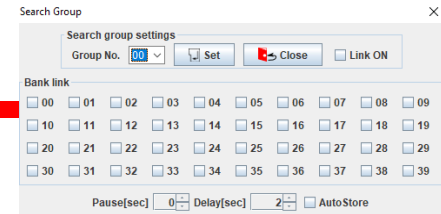
- **Memory channels**
- **Scan banks**
- **Search banks**

HOW TO SCAN A SEARCH BANK:
- Select the bank number.
- Click Go Search.
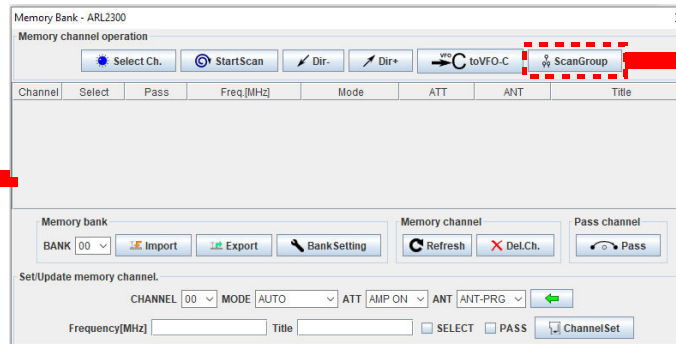- Adjust the squelch level at the previous window.

HOW TO CREATE A SEARCH BANK:
- Select a bank number.
- Set the lowest frequency.
- Set the highest frequency.
- Write a name describing this search bank.
- Set the receive mode, frequency step, amp/attenuator and antenna choice.
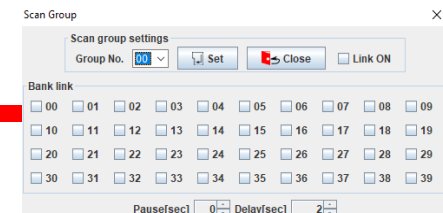- Validate with "BankSet".

CREATE A GROUP OF LINKED SEARCH BANKS:
- Select the Group No. to assign (except Group 00 for the AR2300 receiver).
- Check the bank number boxes you want to link.
- Check the LINK ON box.
- Click Set to start search.
- Adjust the squelch level if needed.

HOW TO SCAN A MEMORY BANK:
- Select the bank number.
- Click StartScan.
- Adjust the squelch level at the previous window.

HOW SAVE A FREQUENCY INTO A MEMORY CHANNEL:
- Enter a frequency.
- Select a bank number.
- Select a channel number.
- Write a title describing this frequency.
- Set the receive mode, amp/attenuator and antenna choice.
- Validate with "ChannelSet".

CREATE A GROUP OF LINKED MEMORY BANKS:
- Select the Group No. to assign (except Group 00 for the AR2300 receiver).
- Check the bank number boxes you want to link.
- Check the LINK ON box.
- Click Set to start the scan.
- Adjust the squelch level if needed.