# IC7300BKT Icom IC-7300 CAT Control

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# Table of contents

Information on IC7300BKT ..... 4
What it is ..... 4
Connection with the PC ..... 6
Changelog ..... 7
Program registration ..... 8
Functions ..... 9
Configuration ..... 9
Configuration ..... 9
Configuration COM ..... 11
Configuration PTT ..... 12
Audio configuration ..... 13
Language selection ..... 14
Limits of band and mode ..... 14
Startup programs ..... 15
Main Window ..... 16
Split ..... 18
Memories ..... 19
Management Memories ..... 19
Editing Memory Bank ..... 20
Memorize the current setting ..... 21
Synchronization of the memories ..... 21
Memory Import / Export ..... 22
Scanner ..... 24
Scanner ..... 24
Scansion Log ..... 25
Scanner Preset ..... 26
Frequency to ignore ..... 27
Skeds ..... 28
Skeds ..... 28
Activation sked ..... 29
Generate recur skeds ..... 29
Delete skeds ..... 30
Bands ..... 31
Set Mode ..... 31
CW Setting ..... 32
Setting ..... 33
Utility ..... 34
AutoCQ ..... 35
Plug-in ..... 35
Plug-In Management ..... 36
OnAir ..... 37
Voice ..... 38
Hook Clipboard ..... 38
PTT ..... 39
Recorder audio ..... 40
QuickSet ..... 40
Custom Key ..... 41

Various ..... 42
List ..... 42
Tone ..... 42
Chosen VFO ..... 43
OFF-LINE Mode ..... 43
Band Stacking ..... 44
Numerical Input ..... 45
Progress Indicator ..... 45
Function Full Version ..... 45
Remote management by TCP/IP ..... 46
Remote management by TCP/IP ..... 46
BKTClient ..... 47
Access Control ..... 47
BKTClient ..... 48
Configuration ..... 48
BKTServer ..... 49
BKTRS232 Alternative serial driver ..... 51
Interfacing with other programs ..... 51

# Information on IC7300BKT

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## What it is

### IC7100BKT

Top Next

### What it is

Top Next

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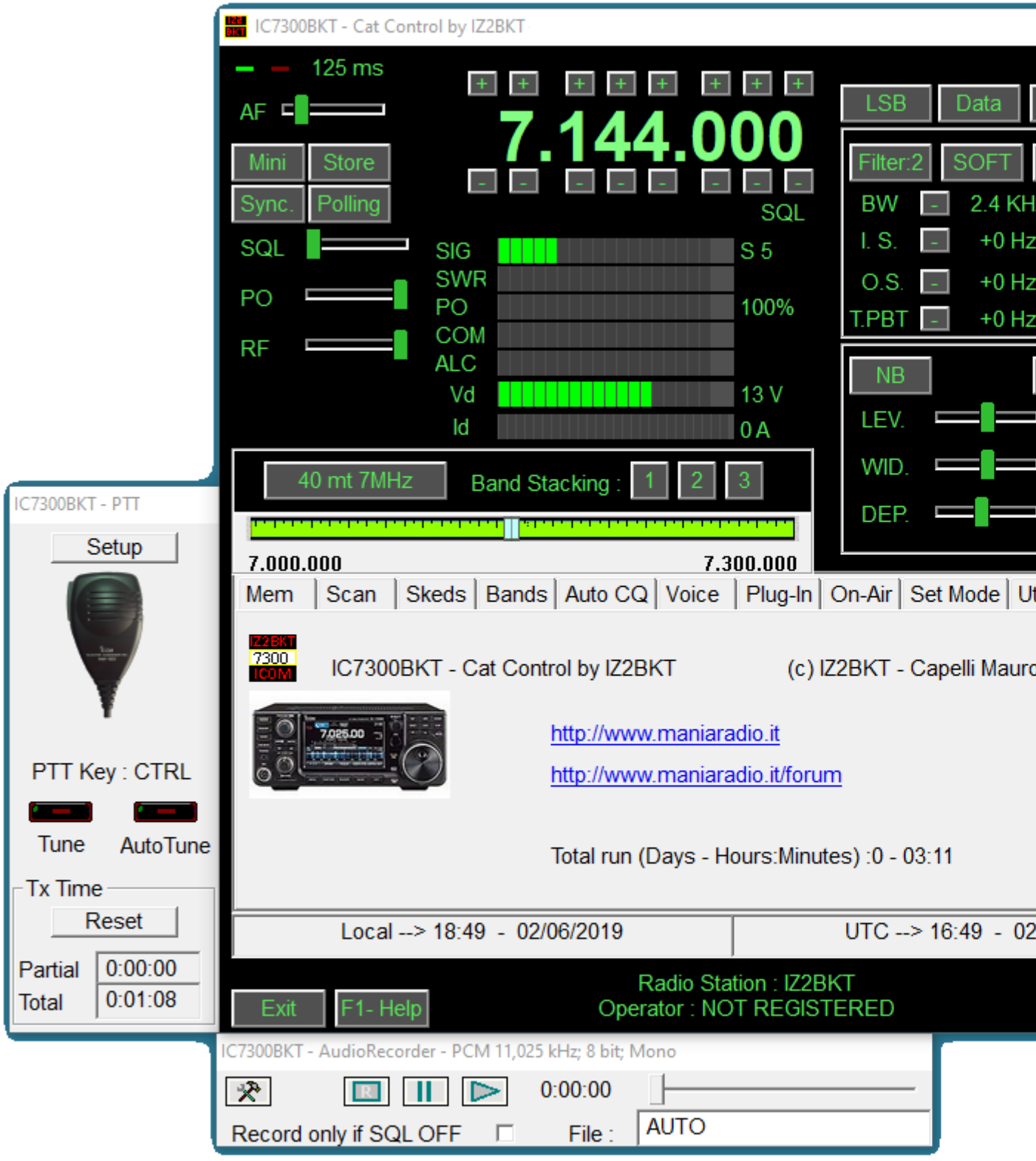


The IC7300BKT CAT program controls the ICOM IC-7300 transceiver using a personal computer running Microsoft Windows XP, Vista, 7, 8, 8.1, 10 - 32 and 64 bit.

The main window has the most commonly used commands.
When the cursor hovers over a button or slider a pop-up balloon will display a short description of its

function.
Right clicking on a slider will allow a numerical value to be input for that setting

The LEd's located at top left of the window blink at the data transfer rate between  the program and the Txcvr.

**Press F1 key to call this guide..**

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## Connection with the PC

Connection with the PC



**For communication with the PC board using the USB connection of the RTX installing drivers Icom**, alternativ
interface that you can buy as an accessory ICOM, or build following the diagram in Figure 1 or Figure 2

Different communication rates can be selected dependent on your PC (the minimum recommended speed setting for the

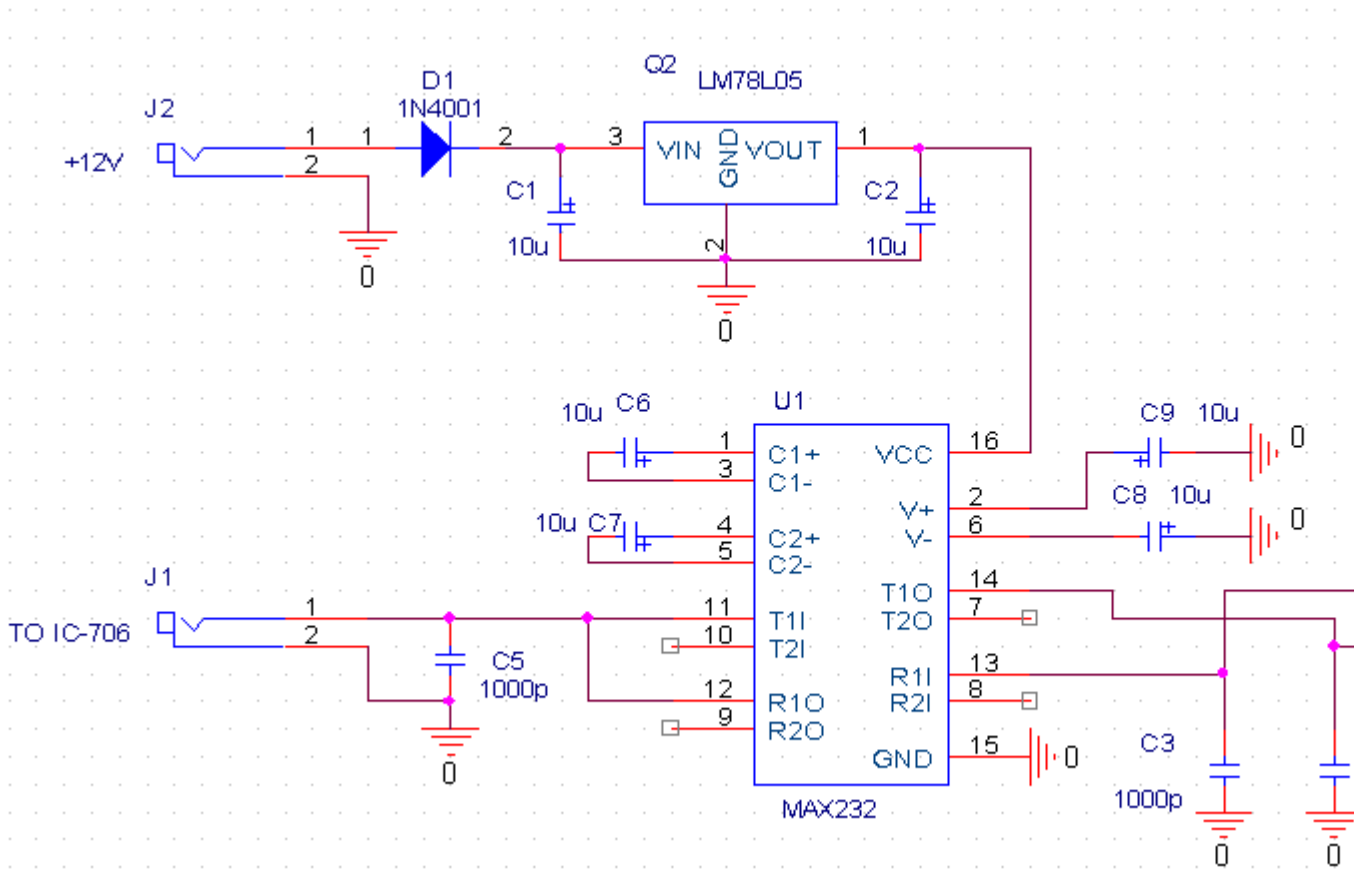


**Fig. 1**

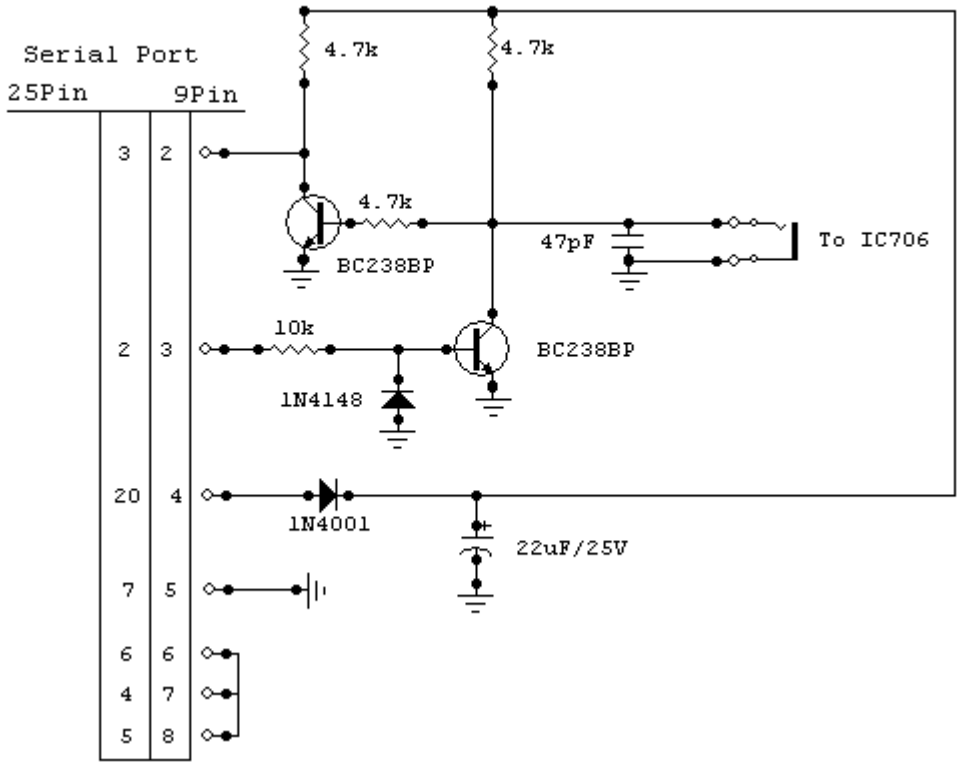


**Fig. 2**

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## Changelog

# Versions

Top Previous Next

Ver. 1.0.1 - 07/07/2019
Correct Power OFF in recursive Skeds

Ver. 1.0.2 - 29/09/2019
Improved Filter management with Mode change

Ver. 1.0.3 - 19/09/2020
Removed bug on NB Width settings and NB Level read after default setting

Ver. 1.0.4 - 02/01/2021
Improved audio device management

Ver. 1.0.5 - 03/01/2021
Added serial port connection speeds up to 115200 BAUD

Ver. 1.0.6 - 08/01/2022
Updated Power ON for connections above 19,200 BAUD

Ver. 1.0.7 - 15/01/2022
Added in the setup the option to disable at startup the CI-V transceive function

Ver. 1.0.8 - 02/06/2023
Correct key loading for the trial version

Ver. 1.0.9 - 10/01/2024
Improved right-click management on sliders

Ver. 1.1.0 - 03/04/2024
Various improvements

Ver. 1.2.0 - 07/01/2025
Added LAN protocol compatible with DX Commander by DXLabs (Replaces BktNetInterface)
Several improvements

Ver. 1.2.1 - 11/01/2025
Removed EnzoLog from On-Air as it is no longer active.
Minor bug fixes.

Ver. 1.2.2 - 23/01/2025
Improved LAN protocol

Ver. 1.2.3 - 29/01/2025
Improved LAN protocol compatibility

Ver. 1.2.4 - 04/02/2025
Correct command to go to TX from LAN protocol

Ver. 1.2.5 - 23/02/2025
Improved LAN protocol for multiple commands

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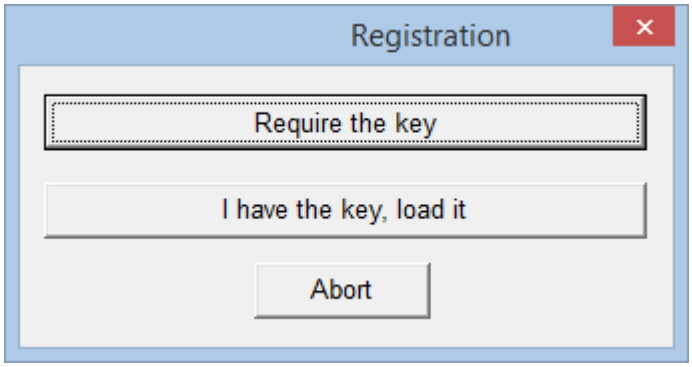
## Program registration

# Program registration

Top Previous Next




All the information on the registration are on: https://www.maniaradio.it/en/ic7300registrazione.html.

The activation key is sent via email as an attachment. Please note: the delivery system is automated and may be classified as SPAM by some providers or programs. Therefore, please configure your system to accept emails from the domains iz2bkt.com and maniaradio.it, and authorize attachments in ZIP format.

**The activation key for the Free version is completely free and generated automatically upon first launch, allowing the use of many program functions. Furthermore, it allows you to try out the features of the Full version for 30 days.**

To install the registration key:

Method 1:

Save the <call.IC7300BKT.bkt> key file to the program's installation folder.
Launch the IC7300BKT program.

Method 2:

Save the <call.IC7300BKT.bkt> file attached to the received email (replace "call" with your specified callsign in the registration form) in a folder.
Launch the IC7300BKT program.
When prompted for registration, click on the [Load Key] button.
Select the folder and the file saved in step 1 and click [Open].
Save the activation key to a floppy disk or removable device for backup.

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# Functions

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## Configuration

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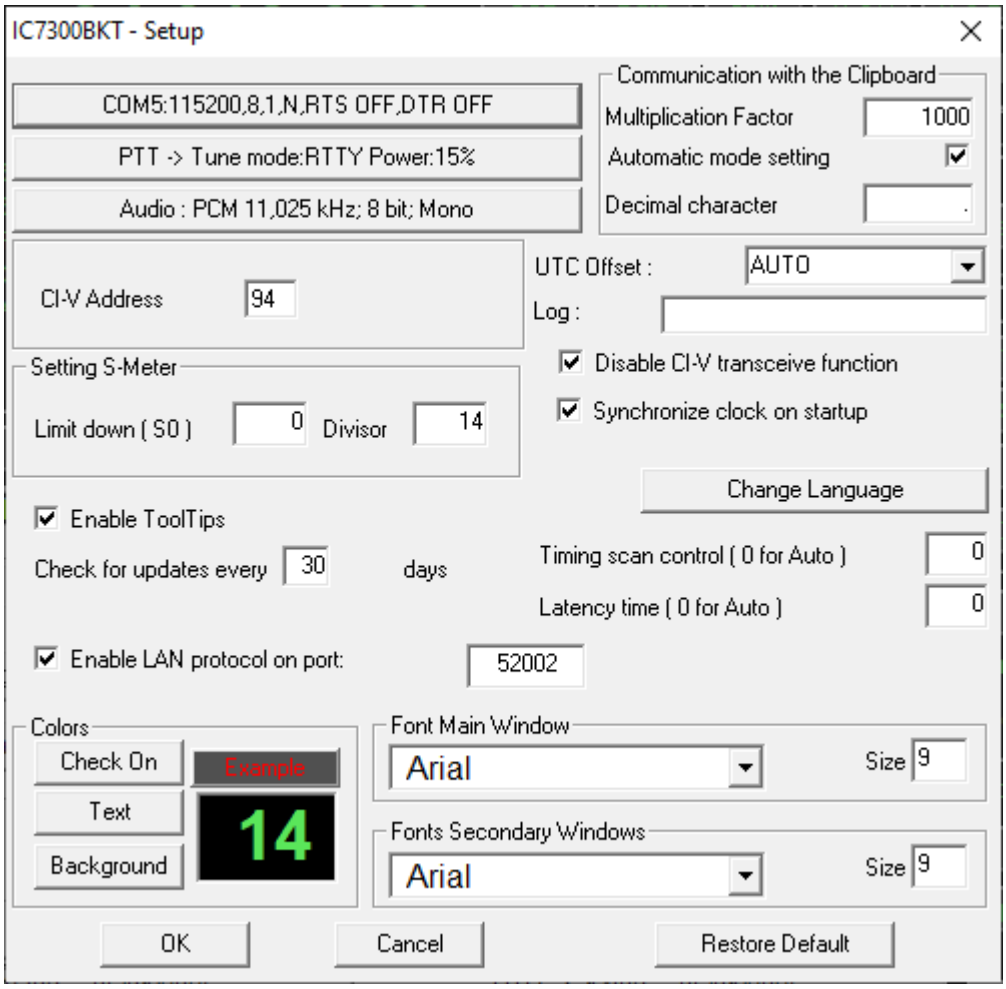
### Configuration

## Configuration

Top Previous Next




General configuration of the program.
Is important that the values of communication of the serial port and the address CIV that has to exactly correspond with the values CI-V BAUD and CI-V ADDRES in the IC7100. You advises to care the parameter CI-V BAUD of the transceiver as Auto.

[COM .....] Serial port and external drive setting.
[PTT .....] PTT and antenna tuner setting.
[Audio .....] Audio setting.
[Address CI-V] Exadecimal address of interface CI-V (default = 88).
[S-Meter Calibration]Set up the values [Limit down] and [Divisor] to make to correspond the value read by the S-Meter of the program with that of the RTX.
[Colors] Choose the colors for display and the keys.
[Communication with teh Clipboard] Parameters for a correct exchange of the data with the clusters programs
[UTC Offset] Points out the bewilderment in times among the time UTC and that local. If put to [Auto] for the calculation of the time UTC is used the settings of Windows.
[Log] Generally must be let empty, point out the name of a file in which to save the Log of exchange dates on the serial port.
[Disable CI-V transceive function] Disable at startup the CI-V transceive function.
[Synchronize clock on startup] Enabling this option, the RTX clock is synchronized with one PC to the first change of minute from the start of the programme.
[Change Language] Select the language.
[Timing scan control ( 0 for Auto )] Time in milliseconds for scanner manage function, leave 0 for automatic control.
[Latency time ( 0 for Auto )] Work time in millisecondi, set to zero for the automatic calculation to the start. A too low latency time might cause the data loss between the pc and the rtx, a too high time slows down the reading of the data of the rtx.

[Enable ToolTips] Enable the help ballons
[Check for updates every] Range of days for automatic updates of the program. Set to 0 not to check.
[Enable LAN protocol on port:] Enable the TCP communication protocol on the specified LAN port. This feature includes DX Labs Suite Commander emulation and replaces the BktNetInterface plug-in.
[Font Main Window] Select the font to be used for the main window, [Size] to enlarge or shrink the main window size.
[Font Memory, PTT e Audio Recorder] Select the font to be used for the secondary window, [Size] to enlarge or shrink the secondary window size.
[Restore Default] Restore the default parameters of the program.

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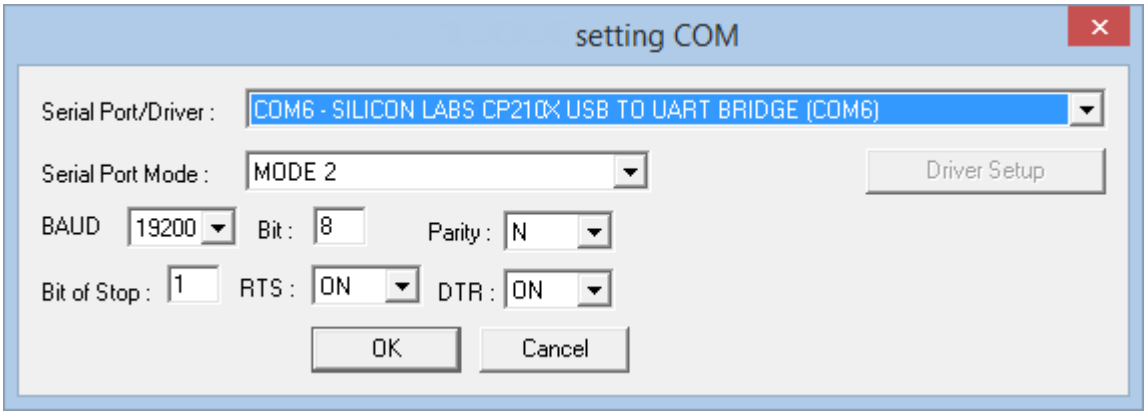
## Configuration COM

# Configuration

Top Previous Next

## Configuration COM

Top Previous Next




These parameters are essential for a good operation of the program. If a transistorinterface is used it is worthwhile to plan RTS and DTR to ON, with an interface with the MAX232 it is recommended to plan to 19200,N,8,1 with RTS and DTR to OFF. If you have other interfaces connected on the same serial ports (es. interfaces for PSK31), it needs RTS or DTR to OFF to avoid to send in transmission the RTX when he enters the program.

Its possible to select an external driver (es. BKTClient for the remote management by TCP/IP), in such case will be activated the key [Driver Setup].

Selecting the driver **BktDummy** the program will work in dummy mode also without the RTX connected.

[Serial Port Mode]: for USB interfaces or for RIGtalk of West Mountain Radio use MODE 1.

**If there are connection problems try this:**

- Change the [Serial Port Mode]
- Change the RTS and/or DTR
- Down the connection speed from 19200 to 9600 BAUD or lower
- Try to use BKTRS232 driver
- Look here : https://www.maniaradio.it/forum/showthread.php?tid=425

The connection speed with the Icom IC-7300 can reach 115200 BAUD, if it doesn't work enter in the

radio configuration **Menu->SET->Connectors->CI-V->CI-V USB Port** and select **Unlink from [REMOTE]**, exit the configuration with the back key and switch the transceiver off and on again.

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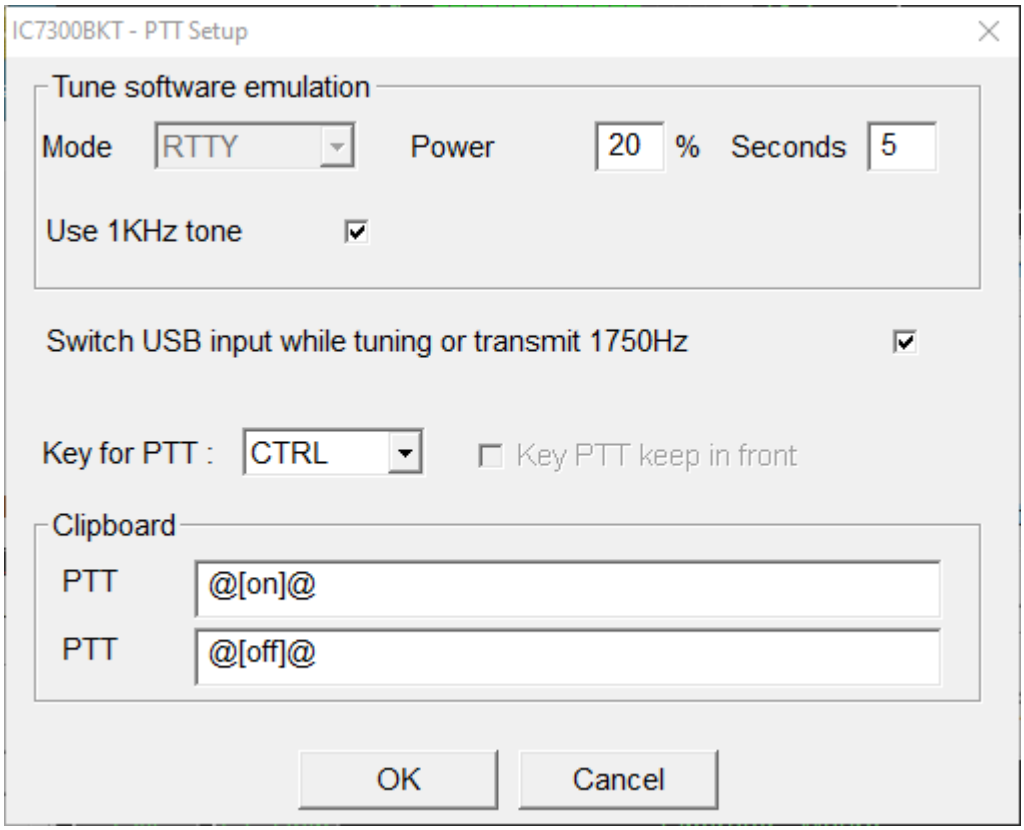
## Configuration PTT

# Configuration

Top Previous Next

## Configuration PTT

Top Previous Next




Configuration of the management of the PTT, that is the possibility to send the RTX in transmission through the program.

[Tune software emulation] Put the RTX in transmission for the time and with power and mode specifies allowing to tune the antenna.
[Use 1KHz tone] Sends 1 KHz  note to desired power for the time given to promote the tuning

[Switch USB input while tuning or transmit 1750Hz] When it starts transmitting enables USB input, at the end, rehabilitates the previous input

[Key PTT] Select the key of the keyboard to use like PTT, NONE in order not to use any.
[Key PTT keep in front] Put the window of the PTT always in front of all the other windows.

Clipboard
[PTT ON] Sequence of characters that, if copied in the clipboard of Windows, put the RTX in

transmission.
[PTT OFF] Sequence of characters that, if copied in the clipboard of Windows, put the RTX in reception.

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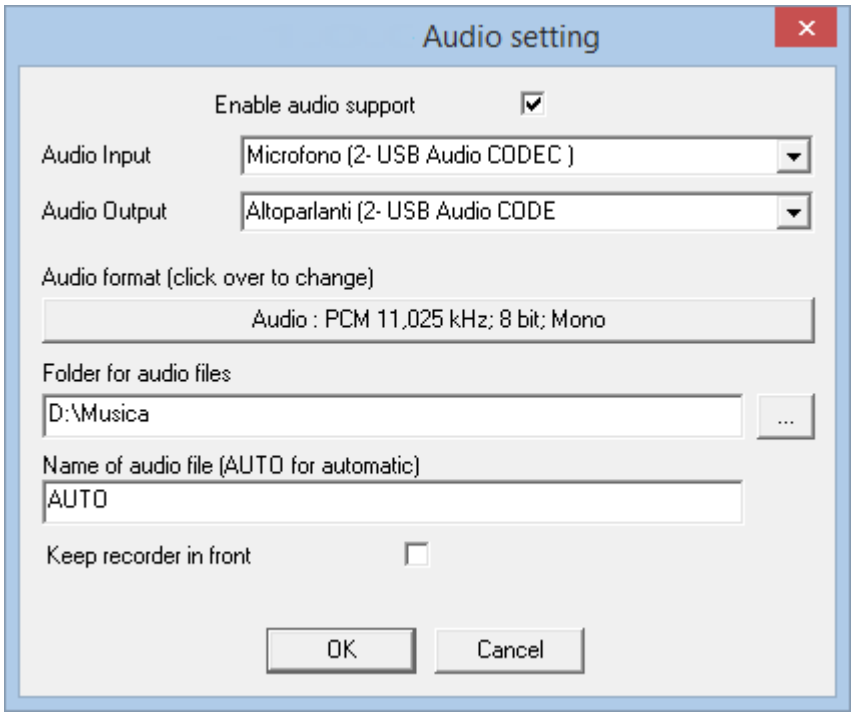
## Audio configuration

# Configuration

Top Previous Next

## Audio configuration

Top Previous Next




[Enable audio support] **Enable/disable the audio support.**
**[Audio Input] Chose the audio device for input. Default for windows default d**
**[Audio Output] Chose the audio device for output. Default for windows default**
**[Audio format] Choose the audio format to use for the recording. To record vo communications is prefered to install a CoDec MP3 and choos With the configuration in figure, an hour of recording occupies 3,5Mb of disc. To record digital communications them convene PCM, in this case the occupation on disc will be much high. T files audio is WAV.**
**[Folder for audio files] Folder for saves the audio files. If the field is empty, it comes u where the program is installed.**
**[Name of audio file] It is possible to specify a default name to use for the files audi AUTO, to the beginning of every recording, a file will be produc BKTyymmddhhmmss.WAV, where yy=year, mm=month, dd=day, h mm=minute and ss=second of beginning recording.**
**[Keep recorder in front] If activated, the Audio Recorder is always maintained ir windows.**

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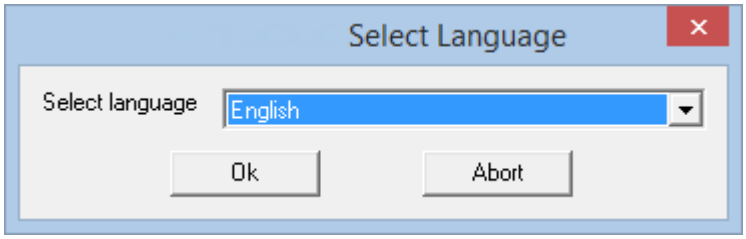
### Language selection

## Language selection

Top Previous Next




Select from the list the preferred language.

You can add languages by following this procedure:

1. Copy the file English.lng in the name of the language you want (eg. Franch.lng)
2. Edit with Notepad or BKTLocalize the file created in step 1
3. For each row, after the equals sign, put the phrase translated being careful not to change the codes (%1-% s-% n-\n-etc. ..)
4. Send me the translated file if you want to be published on the website of the programme

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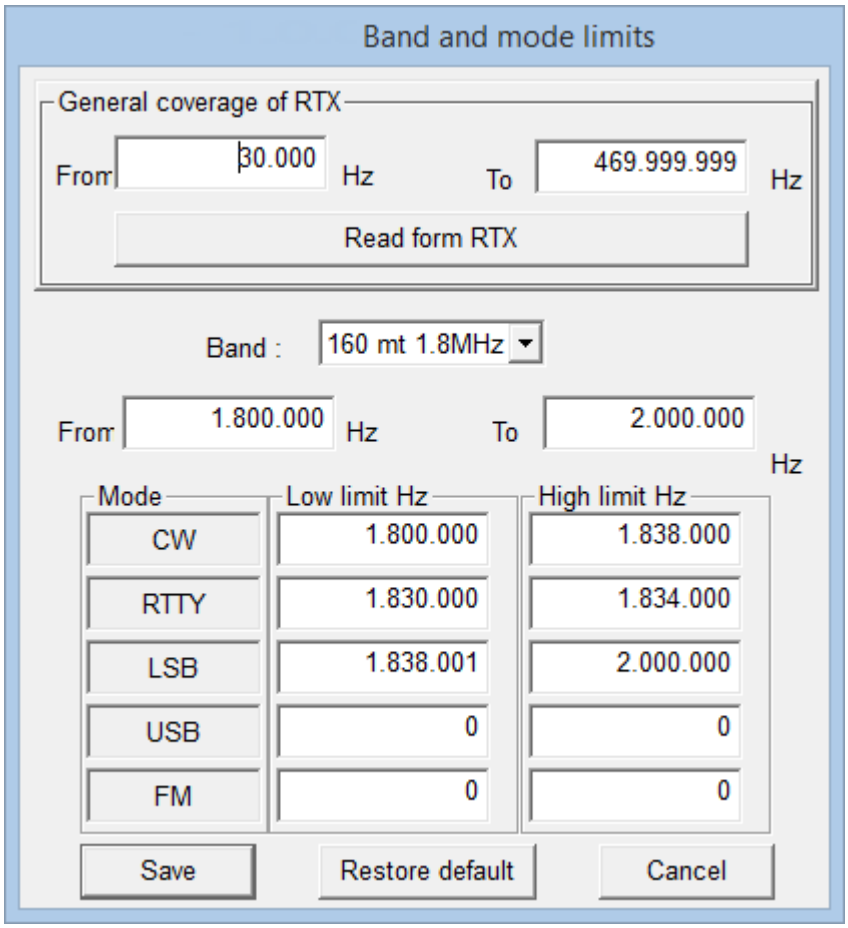
### Limits of band and mode

## Configuration

Top Previous Next

### Limits of band and mode

Top Previous Next




From this mask it is possible to define the limits of coverage for the RTX and for every radioamateur bands.

[General Cover of RTX] Point out the minimal and maximal frequency supported by the RTX.
[Read from RTX] Read the min and max frequencies of radio. Please note that these frequencies are not necessarily the absolute min and max.

[Band] To choose the amateur band to modify.
[From] [To] The minimal and maximum frequency of the selected band.
For every mode of emission to indicate wrap it of frequency used inside of the selected band following the amateur BANDPLAN.

[Restore default] Restore the default values of the program.

**ATTENTION: all the values of frequency are in Hz.**

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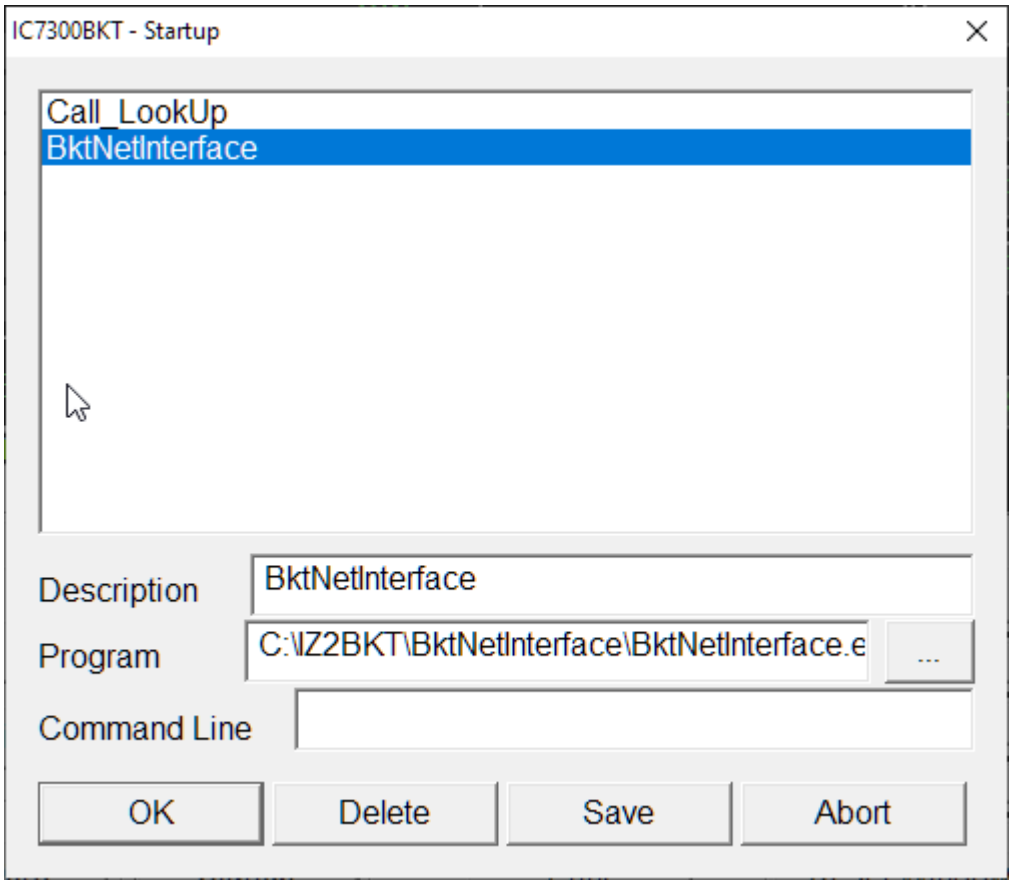
## Startup programs

# Configuration

Top Previous Next

## Startup programs

Top Previous Next




The programs specified in this window will be started to the start of IC7300BKT.

For every program to introduce:
Description: description of the program
Program: program inclusive of path, ex. c:\windows\notepad.exe
Parameters: parameters for the program

[...] find the program
[OK] closes the window saving the possible changes
[Delete] delete the selected program
[Save] save the input
[Abort] closes the window without saving the possible changes

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## Main Window

# Main Window

Top Previous Next

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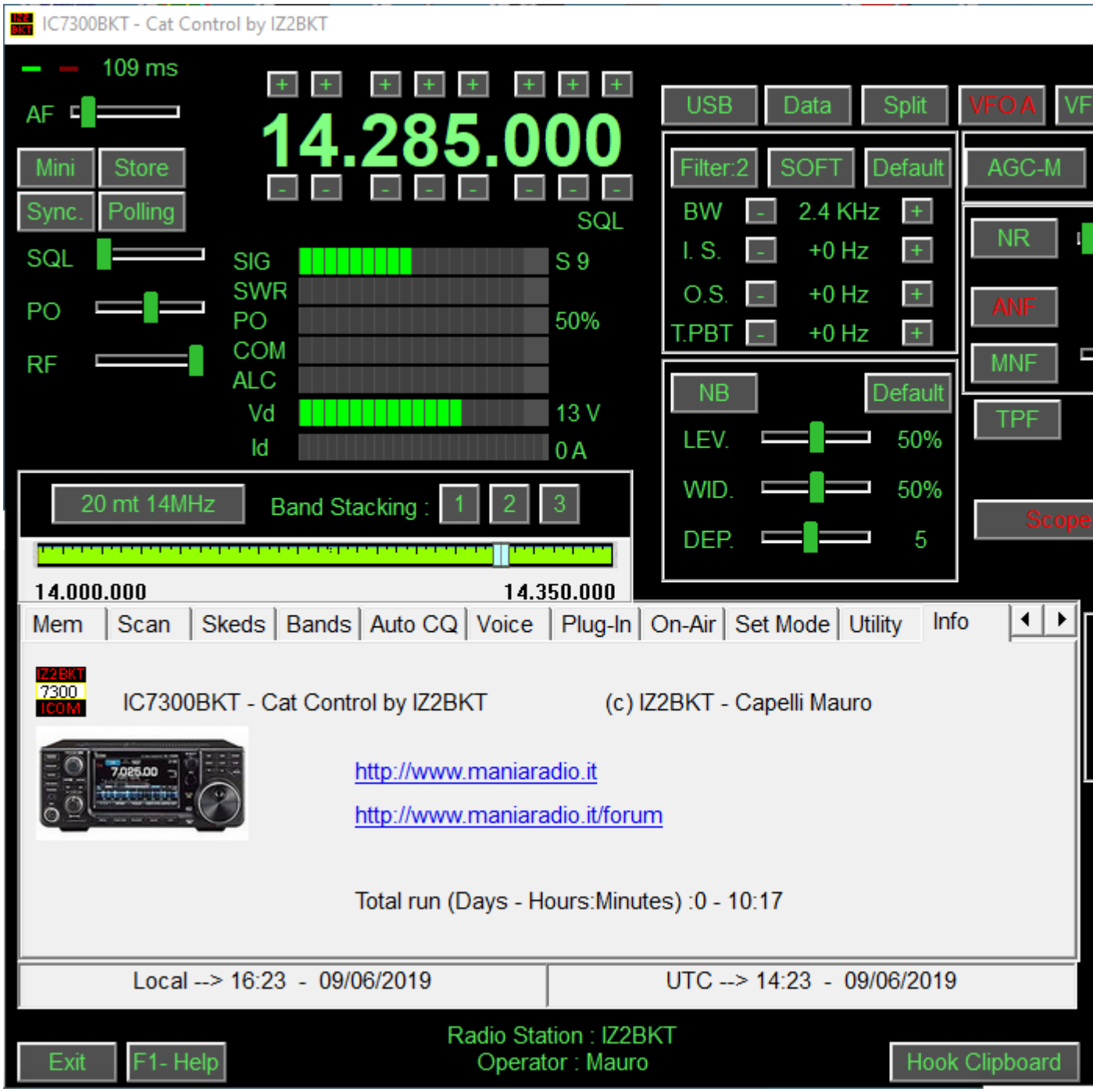



In the main window they are present the commands of great use, **stopping itself with the mouse on a key or a slider of the command, while, click with the mouse right key on the sliders or on numerical values to input the value**

The two Led green/red places up to right of the window blink to the passage of data between program and RTX.

**As to change frequency:**

- Click with the right mouse button on the frequency, enter the frequency in Hz and press the Enter key.
- Use the keys + and - dispose to the edges of the frequency display.
- Position the mouse on the frequency display and use the wheel of the mouse.
- Use the function keys F2 through F9 and Shift.

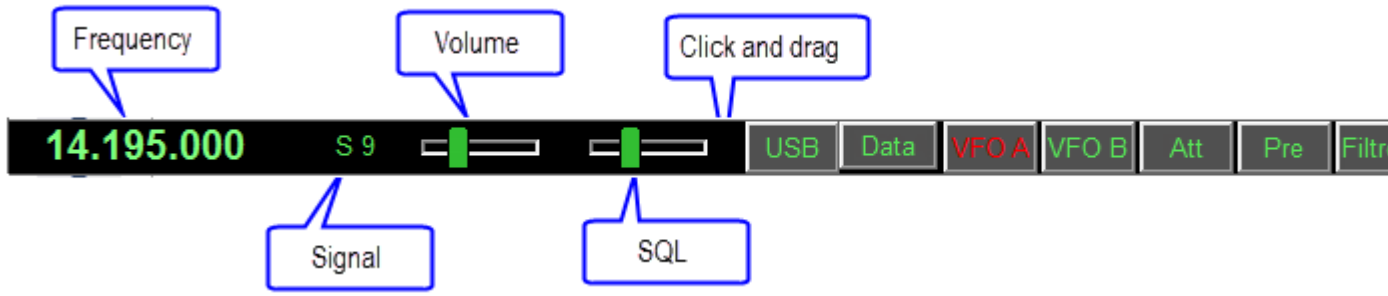
**Information on the main window:**

- Date and hour in local format and UTC.
- Information on the Radio station and Operator.

· Tuning bar. Click and drag the pointer to change frequency. The bar will become of red color when the RTX is syntonize
mouse right key for numerical input of the frequency.

**Keys:**
All the keys are easily identifiable, signal:
[Mini]
[Sync.]

**INTERFACE MINIMIZED:**




Activated by the button [Mini] allows to manage all functions of the radio, taking up little space on the screen.
[Full] Restore main window

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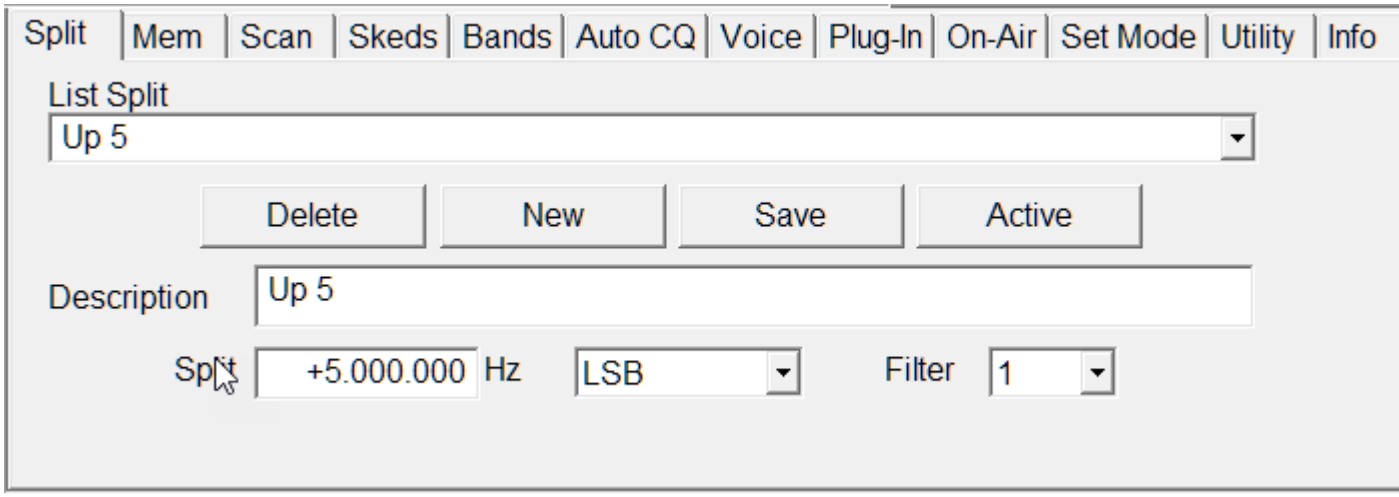
## Split

# Functions

Top Previous Next

## Split

Top




Management of the split, that is, the possibility to receive and to transmit inside on two various frequencies of the same ba

[Delete] Cancels the selected split
[New] Predisposes the fields for the input of a new split
[Save] Saves the split
[Active] Active the split

[Description] Description of the split
[Split] Offset value of reception frequency to set the transmission frequency, mode and transmission filter

For disable the Split use the relative key on main window.

**ATTENTION: the offset frequency is in Hz.**

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## Memories

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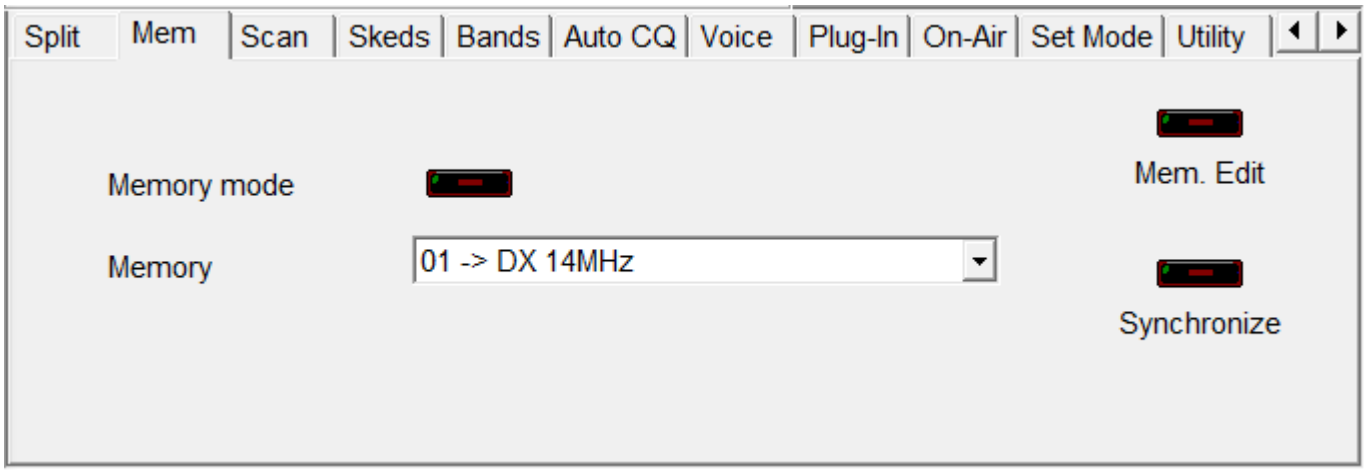
### Management Memories

## Memories

Top Previous Next

### Memories Management

Top Previous Next




[Mem. Edit] It opens/Closes window of management of the memories
[Synchronize] Synchronize the memory database with the memory of the RTX
[Memory Mode] Puts the RTX in memory mode and enable [Bank] and [Memory]

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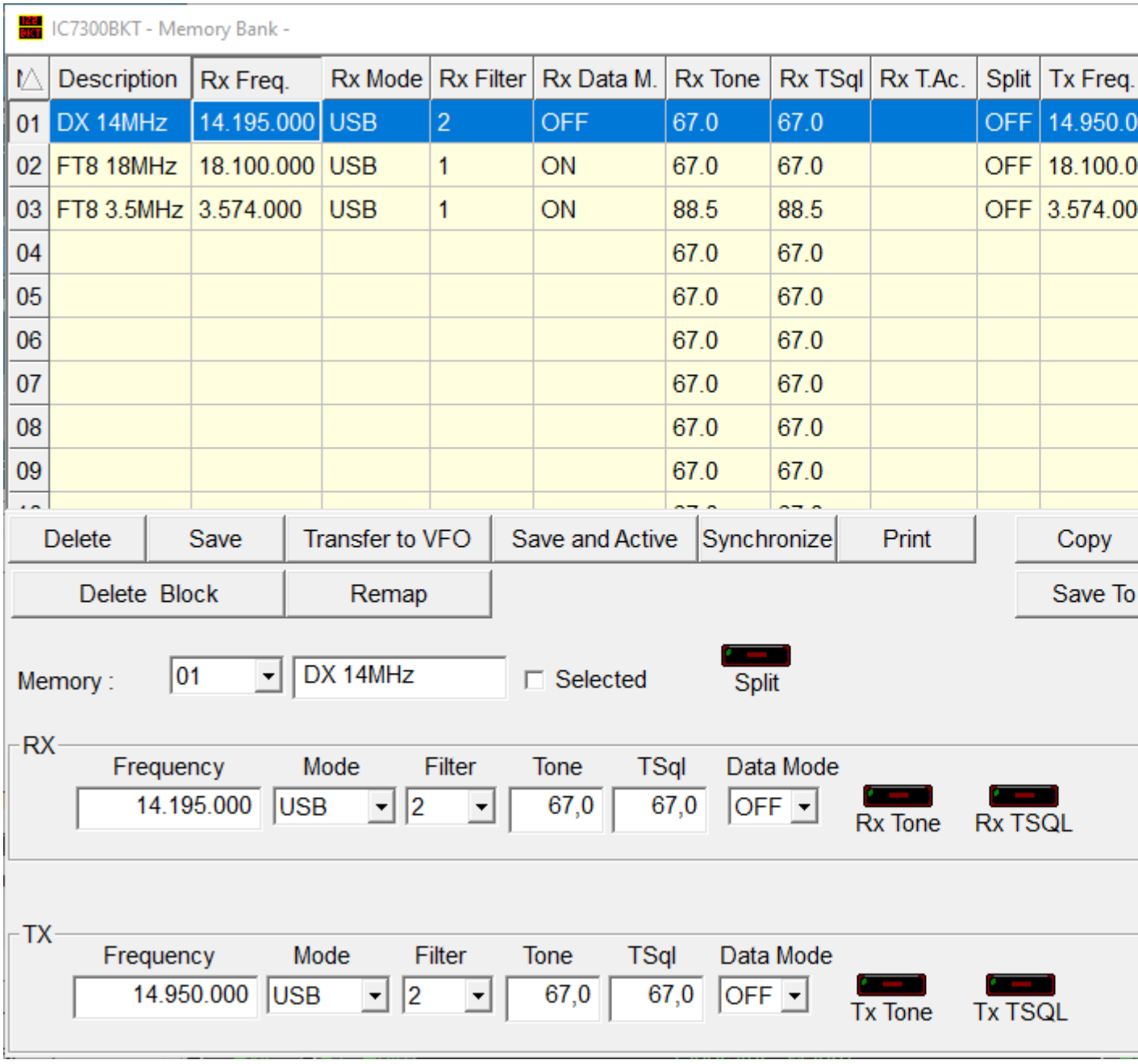
## Editing Memory Bank

# Memories

Top Previous Next

## Editing Memory Bank

Top Previous Next




Every variation, insertion and cancellation effected in this window will be reflected in

Click on the description of the column, you can change sorting display of memories

Double-click the cell to edit.

[Delete] Cancel the selected memory.
[Save] Save the selected memory.
[Transfer to VFO] Transfer RX Frequency, Mode and Filter to the VFO-A and the TX
[Save and Active] Save the selected memory and puts the RTX in Memory mode.

[Synchronize] Synchronize this memory bank with the RTX.
[Print] Print the memories as visualized in the grid.

Using the command Copy, Cut and Paste is possible to duplicate or to move memories from a bench to the other or one pc
[Copy] Copy the memory selected in the clipboard.
[Cut] Copy the memory selected in the clipboard and will cancel it when it comes chosen the function Paste.
[Paste] Save the memory in the clipboard on that one selected.

[Delete Block] Deletes a block of memories
[Remap] Remaps memories second sorting chosen: click the heading of the column you want to choose the sort order, and
[Save To File] Saves the current memory bank in a file
[Load From File] Load current bank memory from a file previously saved with [Save to File]. WARNING current memories w

[Export] Export the memory bank in a file CSV.
[Import] Import the memory bank from a file CSV or a ARRL TravelPlus file. WARNING current memories will be overwritte

[Memory Mode] Put the RTX in Memory mode and enable the selected memory.

Click on the description of the column for change the ordering of visualization of the memories.

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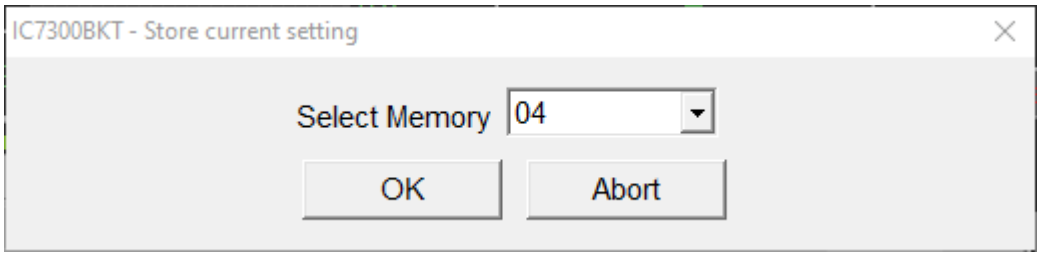
## Memorize the current setting



### Memorize the current setting






[Select Memory] Select the number of the memory to use

Editing memory bank of the selected bank, you will have to insert the description of the memory and press [Save].

**Select an empty memory otherwise the values will not be stored.**

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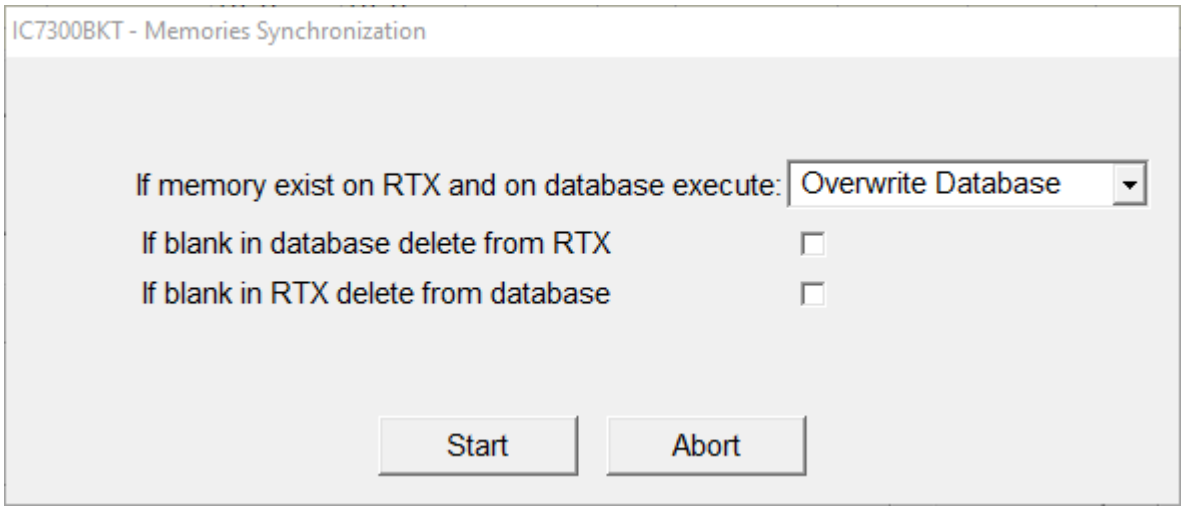
## Synchronization of the memories



### Synchronization of the memories




The synchronization serves to align the content of the database with the memories of the RTX.

[If memory exist on RTX and on database execute] Select the action to execute if the memory is present in the RTX and in the database of the PC:

- Nothing = leaves unchanged database and RTX
- Overwrite database = overwrite the memory of the database with that of the RTX
- Overwrite RTX = overwrite the memory of the RTX with that of the database

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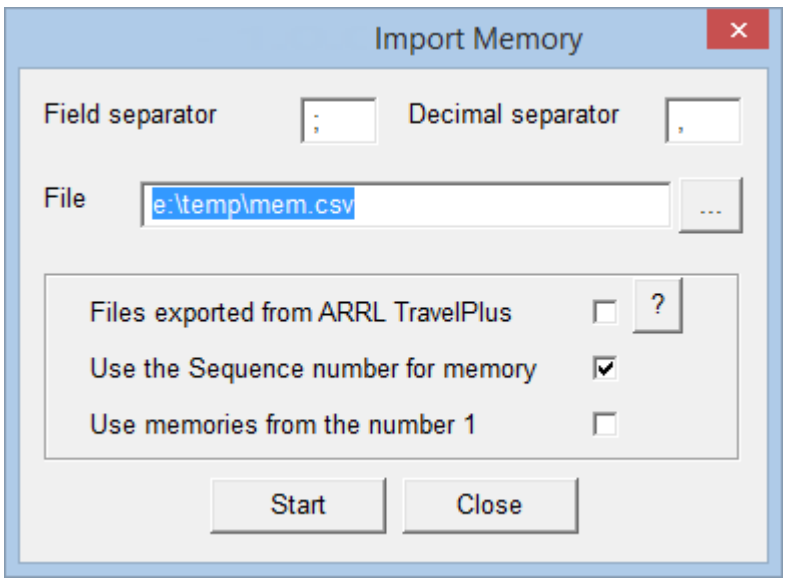
## Memory Import / Export

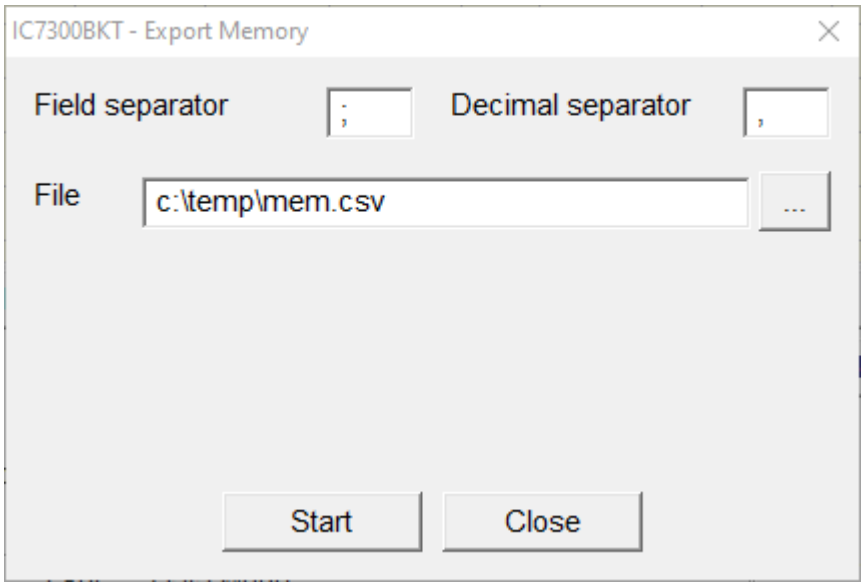
Memory Import / Export

Top Previous Next

Memory Import / Export

Top Previous Next



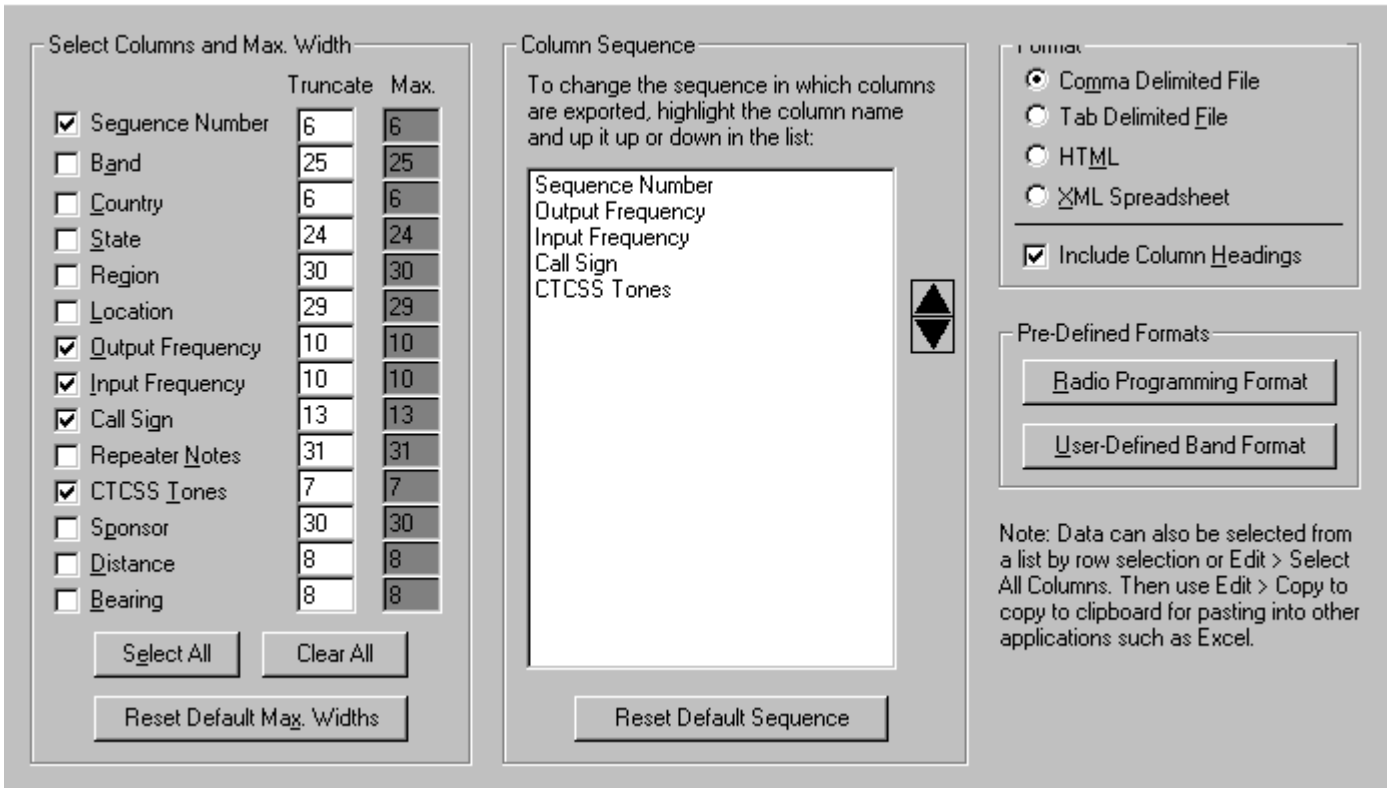



Import or Export the bench of memory in a CSV format file. The format CSV can be used with Microsoft Excel.

[Field separator] Character to be used for separating a field from the other.
[Decimal separator] Character to be used for pointing out the decimal value (Es. 87.5 use the point )
[File] Select the file to create or to use
[...] Press for browsing the folders to the search of the file
[Start] Begin the conversion
[Close] Close this window

[Files exported from ARRL TravelPlus] Used to import the memories generated with the ARRL TravelPlus programme
[Use the Sequence number for memory] Use the Sequence field as the number of memory (maximum 99 )
[Use memories from the number 1] Import the memories from number 1 of the bench current and ignoring the sequence field

**To successfully import the memories, use the function Export Repeater Data of the TravelPlus programme with the settings following :**

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## Scanner

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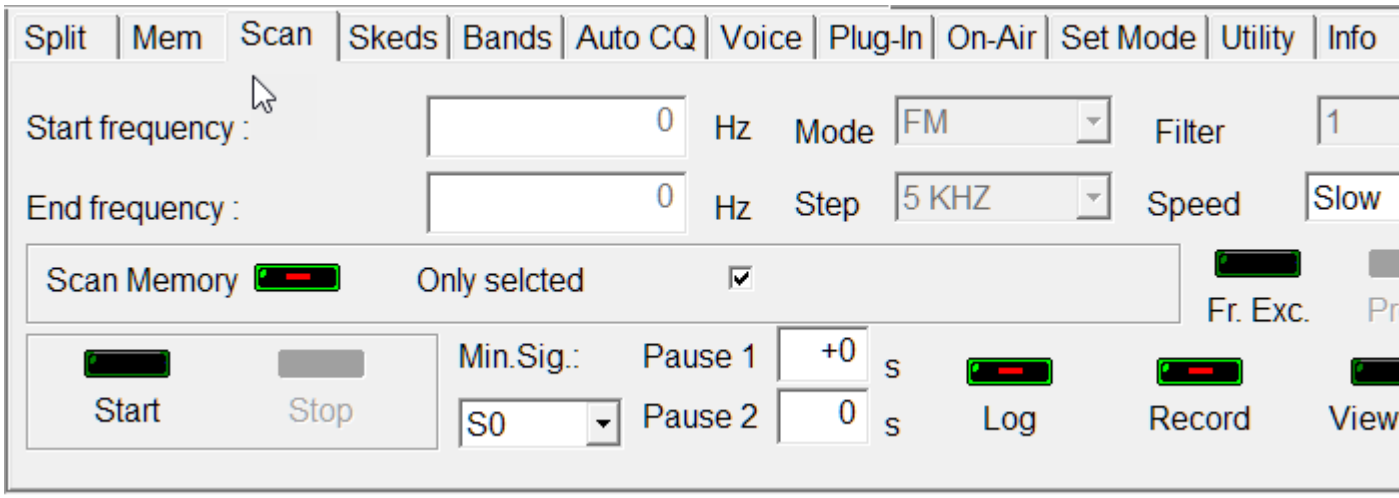
### Scanner

## Scanner



### Scanner






Executes a cyclical search between two frequencies or from the memories of a bank.

[Start frequency] Frequency of beginning search
[End frequency] Frequency of end search
[Mode] Operating mode with which searching, choosing FM or AM it is possible to use the SQL to stop the
[Step] Step of increment of the frequency
[Filter] Filter using during the search
[Speed] The search speed can be Fast or Slow
[Scan Memory] Executes the search between the memories of the selected bank
[Bank] Bank to use
[Only selected] Execute the search only using the memories marked Selected of the bank chosen
[Fr.Exc.] Allows you to specify the frequency to be excluded from scanning. The button is red if the table co
frequencies.
[Preset] Click Preset to manage the database of pre-set scan.
[Start] Start the search
[Stop] Interrupt the search
[Min.Sig.] Minimal intensity of signal them because it is considered valid
[Pause 1] Pause in seconds after to have found a signal and before resuming the search:
0 = Wait until that SQL passes in ON
-1 = Use the resume of the IC-7100 and ignore Pause 2
[Pause 2] Pause in seconds before passing to the successive frequency after that SQL is returned ON.
[Log Enable/disable scansion log
[Record] Enable/disable the audio recording. The key is active only if it is active the audio support.
[View Log] scansion log

**ATTENTION: all the frequencies are in Hz.**

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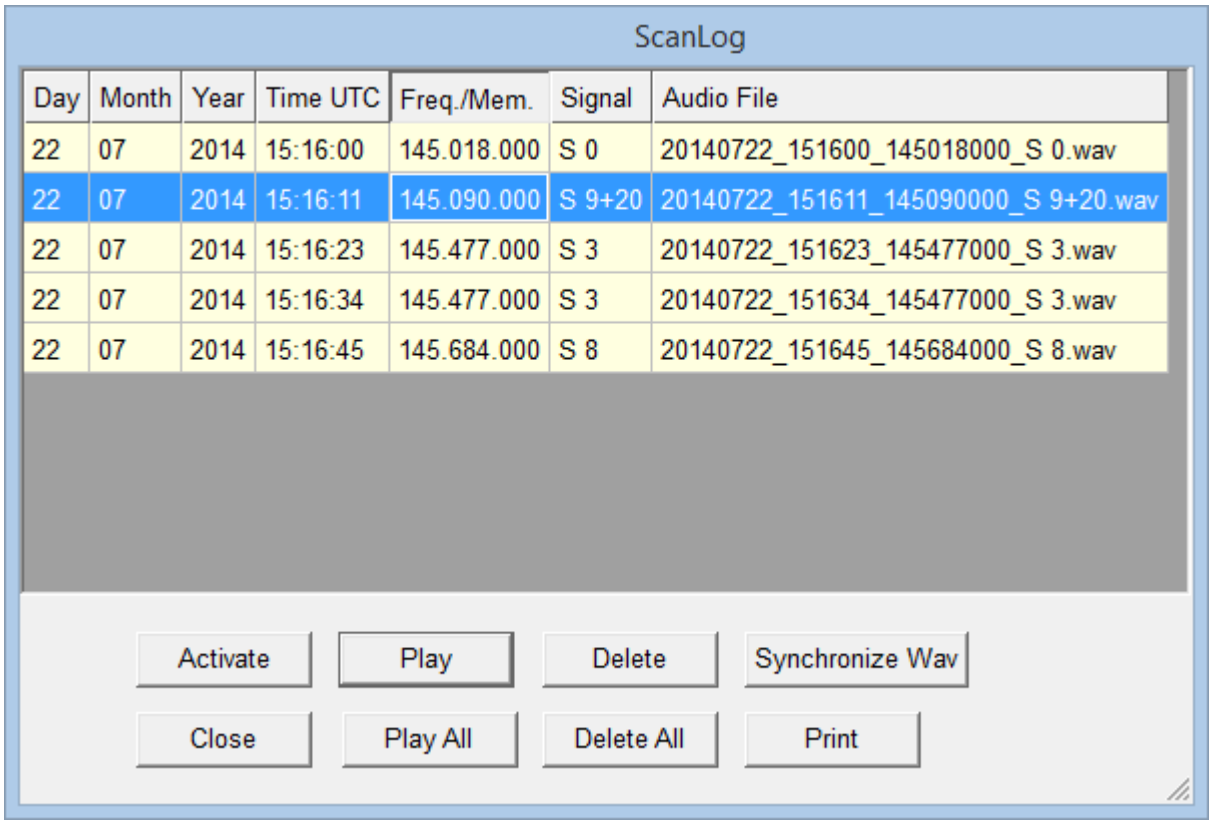
## Scansion Log

# Scanner



## Scansion Log




This is the log build from the scansion.

For every valid signal is recorded:
- Date in Day, Month and Year
- Hour UTC
- Frequency
- Intensity of the signal
- Audio recording (only if active)

**Click on the description of the column for change the visualization ordering.**

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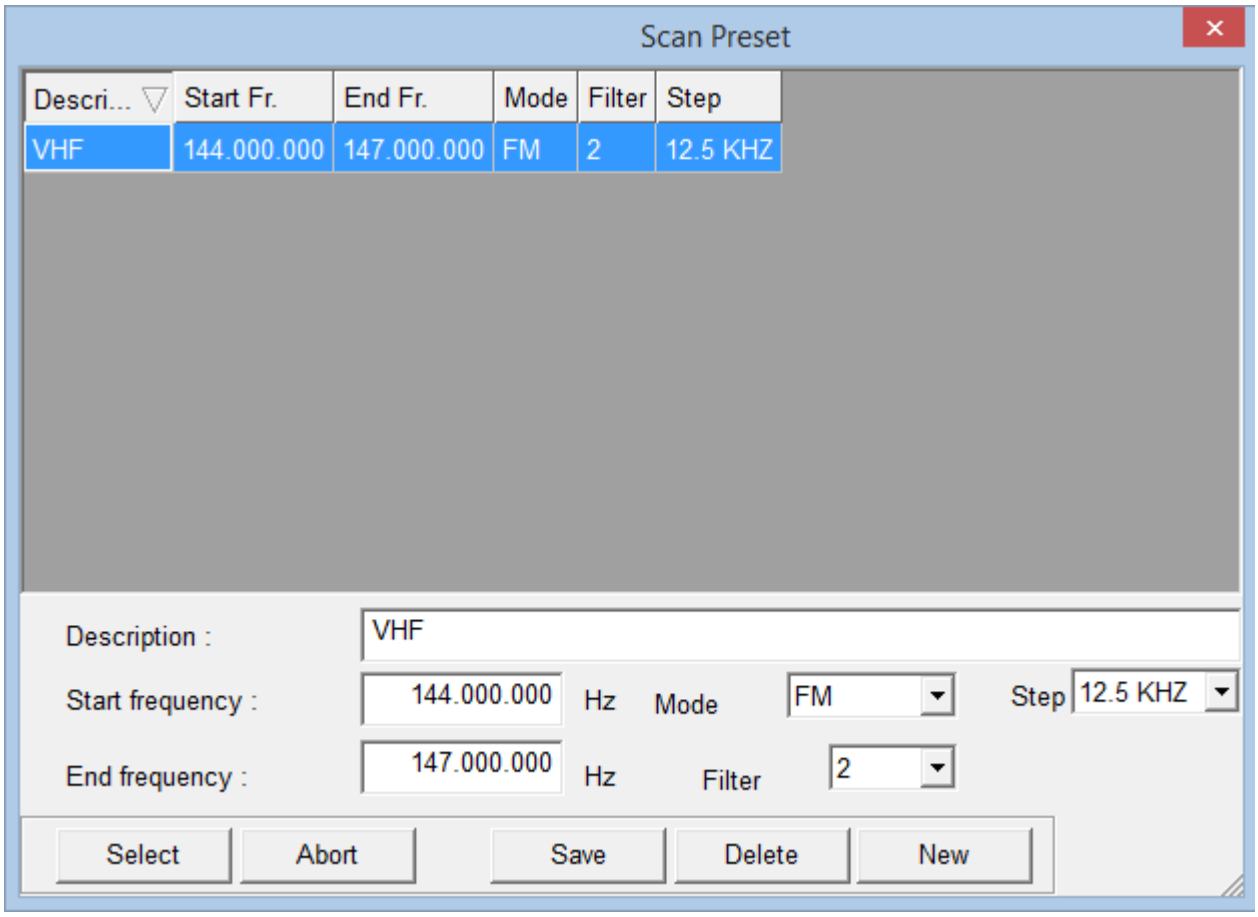
## Scanner Preset

# Scanner

Top Previous Next

## Scanner Preset

Top Previous Next




ScanPreset to use pre-set of scans.

[Select] Filler the values selected in the mask Scanner
[Abort] Closes the window without changing the values in the mask of the Scanner

[Save] Save the values in the fields of editing, if there is a scan with the same description will be overwritten.
[Delete] Deletes the scan with the chosen description
[New] Clear the fields of editing to facilitate the insertion of new data

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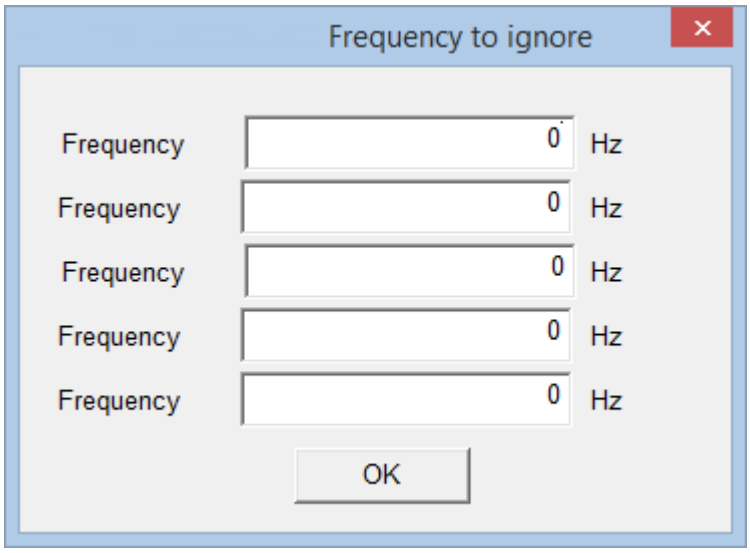
## Frequency to ignore

# Scanner

Top Previous Next

## Frequency to ignore

Top Previous Next




Frequencies in this table will be excluded from scanning.

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## Skeds

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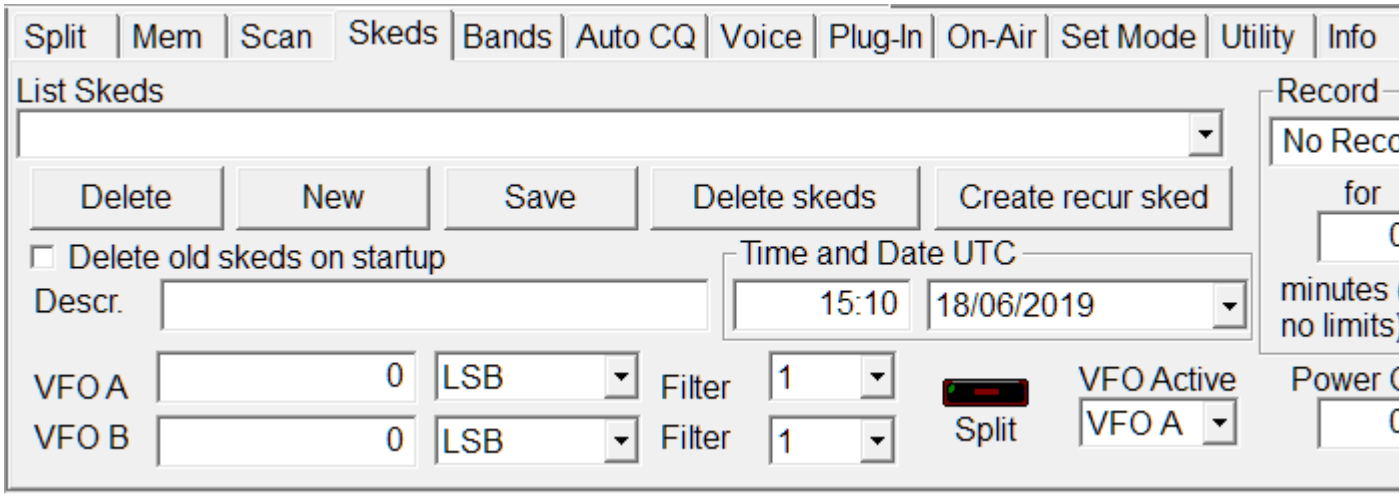
### Skeds

## Skeds

Top Previous Next




Allows to program the activation of frequencies and modes in dates and pre-arranged schedules. Thirty seconds before th programmed activation a message of warning that allows to annul the planning will appear.

[Delete] Delete the sked selected
[New] Emptie the fields for the input of a new one sked
[Save] Save the sked
[Delete skeds] Delete the skeds comprised between two dates
[Create recur sked] Create recurrent skeds
[Delete old skeds on startup] If checked, on program startup delete the skeds with date and time precedents

| | |
|---|---|
| [Descr.] | Description of the sked |
| [Time and Date UTC] | Time and date of activation of the sked |
| [VFO A] | Frequency, mode and filter to use for the VFO A |
| [VFO B] | Frequency, Mode and filter to use for the VFO B |
| [Split] | Enable/Disable Split |
| [VFO Active] | VFO to use in reception |
| [Record] | No Record: does not start the audio recorder |
| | Record: starts to record the activation of the sked |
| | Record SQL: starts to record the activation of the sked recording only when the SQL is open |
| [Power OFF] | Select the minutes auto-off of RTX after the activation of the sked, OFF for not to activate the auto-of |

**All the plannings are in date and time UTC and the frequencies in Hz. For a correct operation of this function it essential that the RTX is power on in the moment of the programmed activation**

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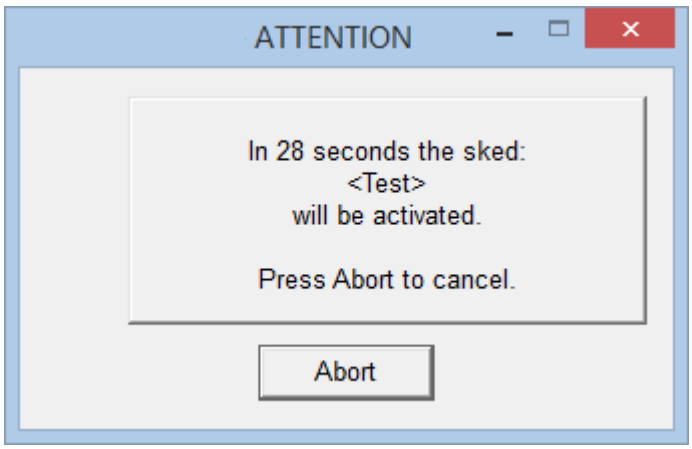
## Activation sked



### Activation sked






Warning of the next activation of a sked, for interrupt the activation of a sked pressing [Abort].

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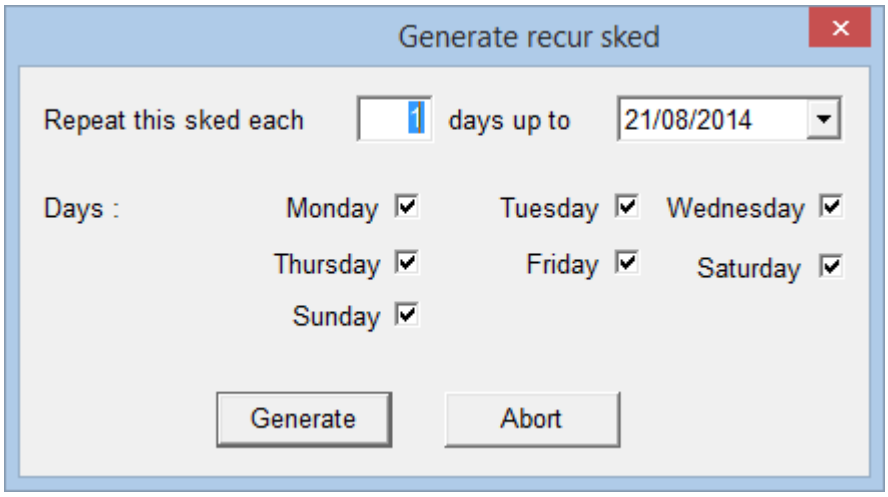
## Generate recur skeds



### Generate recur skeds




Generate a recurrence of the actual sked. To the description of every generate sked will be added "r - > nn" where nn is a progressive number.

[Repeat this sked each] Number of days between one sked and the other
[days up to] Date of end skeds creation
[Days] Valid days for the sked
[Generate] Generate the sequence of skeds
[Abort] Close the window without create sked

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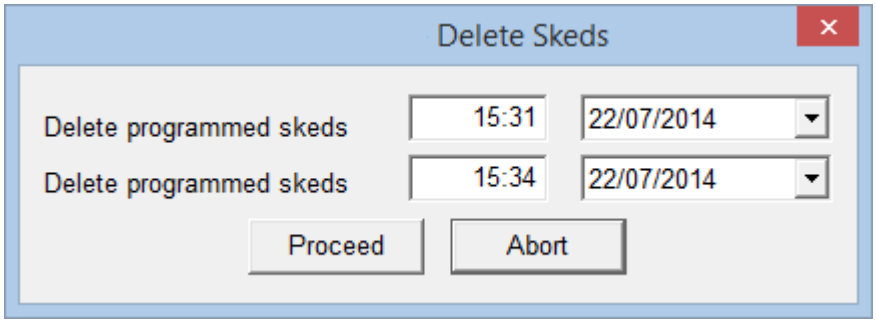
## Delete skeds



### Delete skeds






Delete all skeds programmed among the specified dates.

[Delete programmed skeds from] and time of the oldest skeds — Time and date from which to begin to cancel, is proposed date
[Delete programmed skeds to] actual — Time and Date up to which to cancel, is proposed time and date

**Time and date UTC.**

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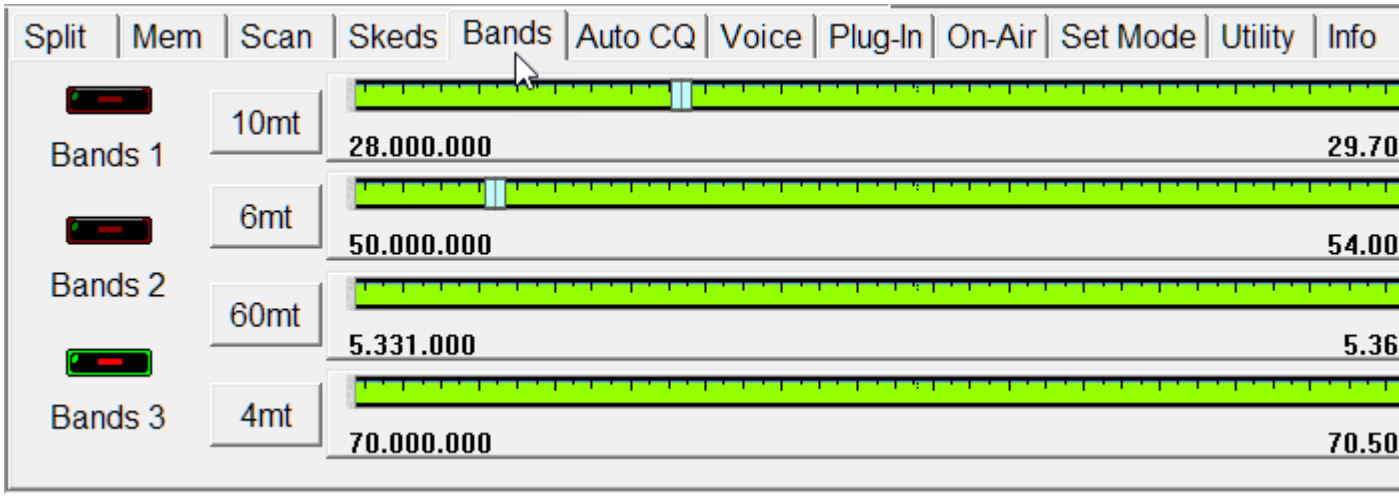
## Bands

# Functions

Top Previous Next

### Bands

Top P




Radioamateurs bands in 3 groups on 4 tuning scales.

[Bands 1] **First group: 10mt - 8mt - 4mt and 30mt**
**[Bands 2] Second group: 20mt - 17mt - 15mt and 12mt**
**[Bands 3] Third group: 10mt - 6mt - 6mt and 4mt**

**Click on the pointer of tuning in order to enable the relative band.**

**configure the Limits of band and mode**

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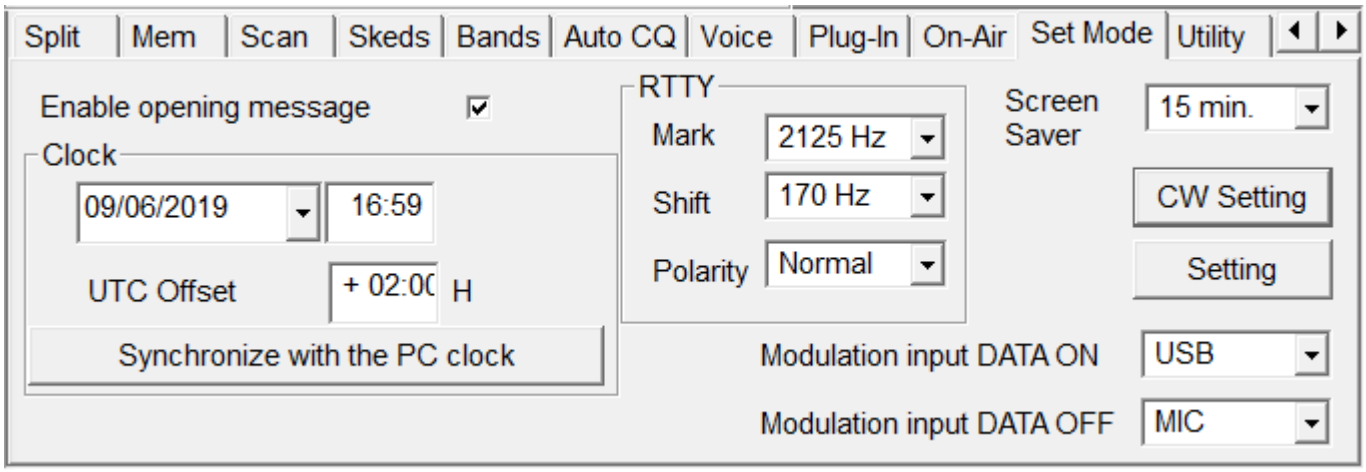
## Set Mode

# Set Mode

Top Previous Next




The Set Mode is used to personalize the operation of the RTX.

[Enable opening message] Turns the opening message screen indication capability ON or OFF.
[Screen Saver] Select the minutes of inactivity to turn off the RTX display, OFF to disable

**Clock**
Management of the RTX clock
[] Set dates and time of the first fused hourly
[UTC Offset] Difference from the UTC time
[Synchronize with the PC clock] Use date and hour currents to set up the clock of the RTX, synchronization will be made to the exchange of the minute.

**RTTY**
[Mark] RTTY Mark frequency
[Shift] RTTY Shift width
[Polarity] RTTY keying polarity

[CW Setting] Setting the CW parametres and menage the memory keyer.
[Setting] Other settings of the Set Mode

[Modulation input DATA ON] Select the input source when the DATA mode is ON (microphone, ACC connector, ACC + Microphone, USB)
[Modulation input DATA OFF] Select the input source when the DATA mode is OFF (microphone, ACC connector, ACC + Microphone, USB)

**The options of personalization are many and various and will be implemented during the various versions of the program..**

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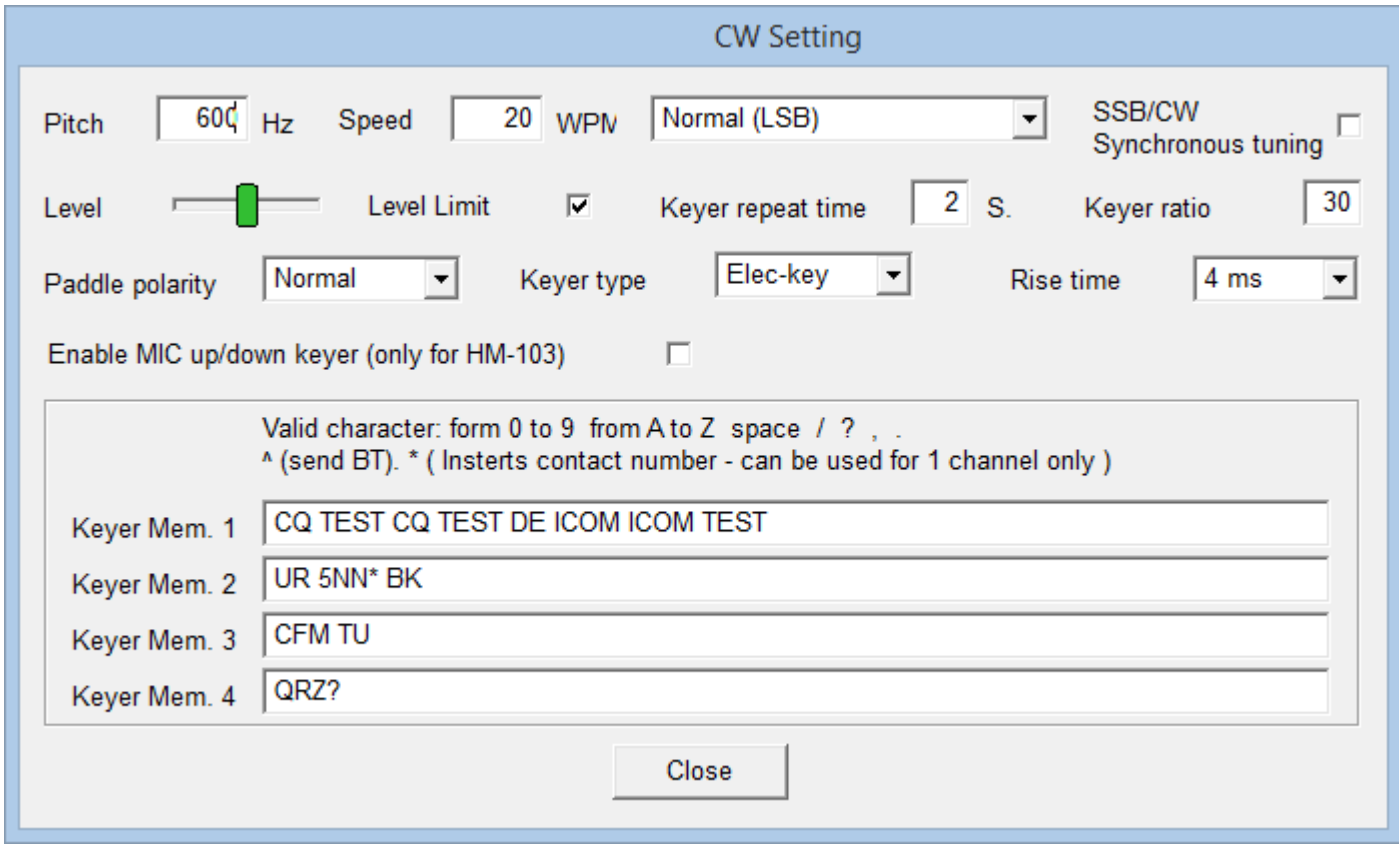
## CW Setting

# Set Mode

Top Previous Next

## CW Setting

Top Previous Next




Management of the parameters of configuration for the CW mode.

Valid characters for the memory keyer are: From 0 to 9, from A to Z, space, slash, interrogation mark, comma and point ( / ? , . ).
Use the character ^ to send BT.
Use * to insert QSO counter ( can be used in an only memory keyer ).

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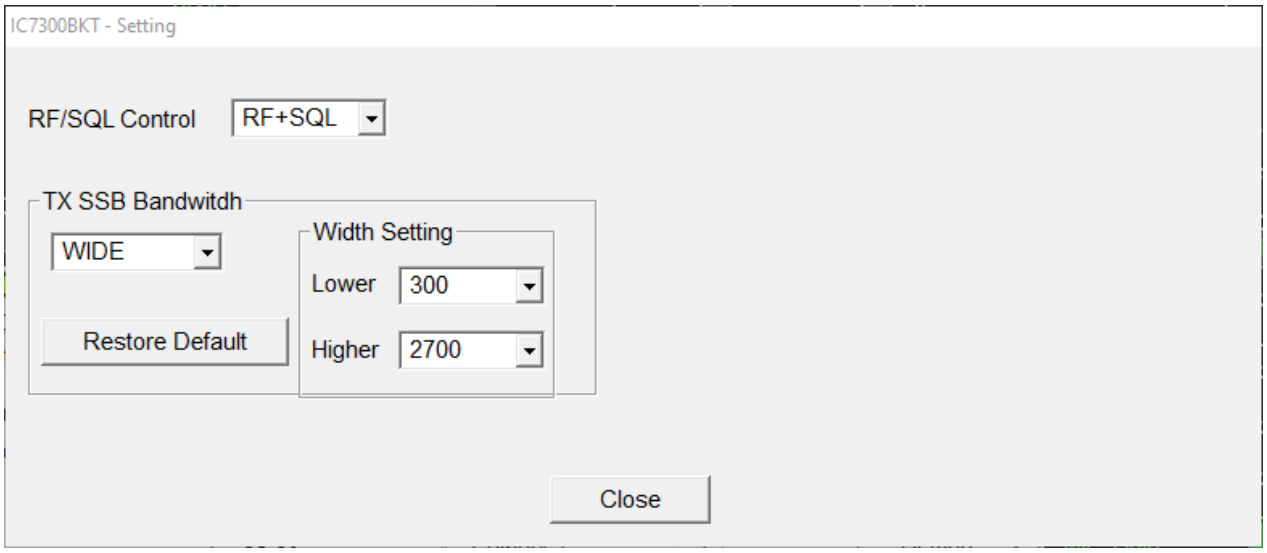
## Setting




**RF/SQL Control** : Defines the mode of control RF/SQL (see the manual of the IC-7300 for more details)

**TX Bandwitdh** : Sets the bandwidth in transmission (see the manual of IC-7300 for more details)

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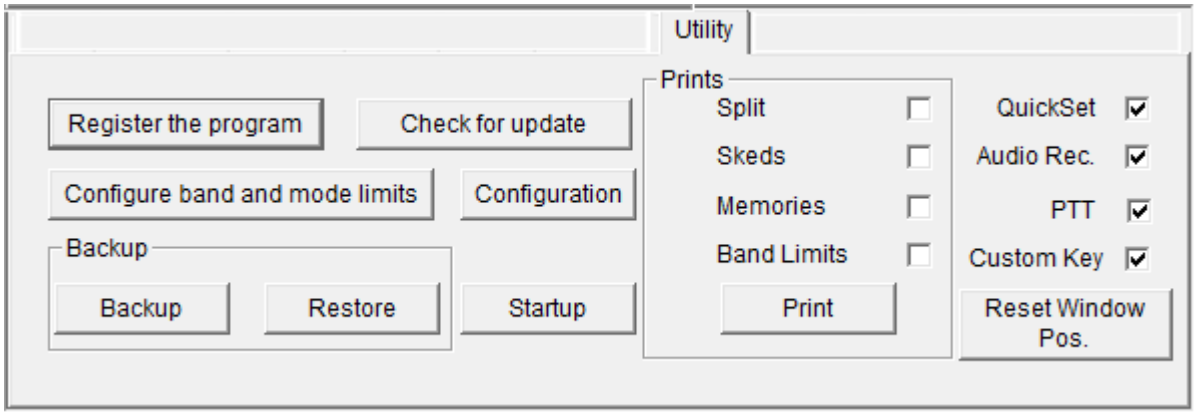
## Utility

# Functions



## Utility




[Register the program] program registration
[Check for update] Control if new version of the program is available (require active Inte
[Configure band and mode limits] Management of
[Configuration] Configuration of the program IC7100BKT
[Startup] Select the program to run for running with IC7100BKT

**Backup**

[Backup] Save data and configuration in the file IC7100BKT_BACKUP.ZIP
[Restore] Restore data and **configuration** from a file of backup

**Prints**

Mark the files that are wanted to stamp and to press the key [Print]

[QuickSet] Show/Hide the QuickSet window
[Audio Rec.] Show/Hide the Audio Recorder window
[PTT] Show/Hide the PTT window

[Custom Key] Show/Hide the Custom Key window
[Reset Window Position] Reset to the default position of the various program windows

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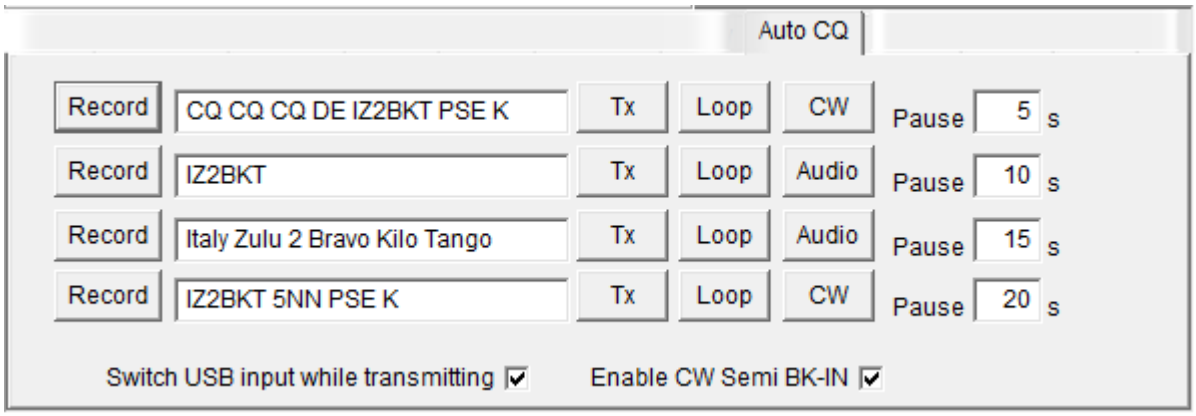
## AutoCQ

# Functions

Top Previous Next

## AutoCQ




With AutoCQ it is possible to record up to 4 phrases that can also be reproduced in loop.

[Record] Records the phrase.
Description of the recorded phrase or text to be transmitted in CW
[Transmit] Transmits once the recorded phrase or text to CW
[Loop] Repeatedly transmits at the interval chosen. Press the button to s
[CW/Audio] Select the transmission mode: CW sends the text to CW, Audio: t
Pause] The pause in seconds between a transmission and the next.
[Switch USB input while transmitting] When it starts transmitting enables USB inpu
[Enable CW Semi BK-IN] When it begins broadcasting in CW setting Semi BK-IN m

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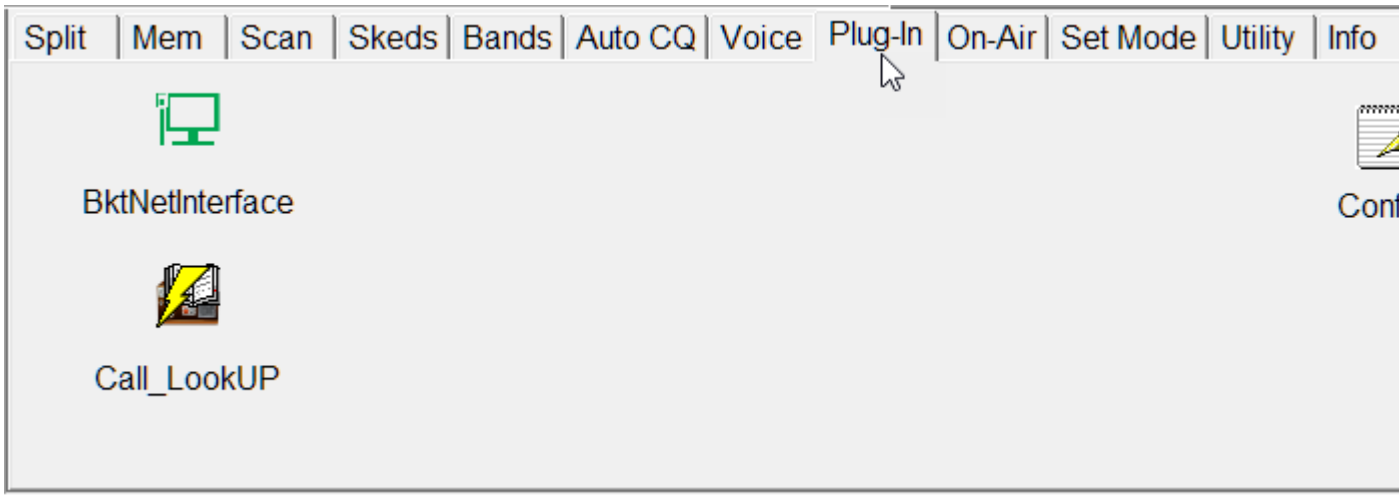
## Plug-in

# Plug-in

Top Previous Next

## Plug-in

Top P




Management of Plug-In and external programs.

[Config.] Configure Plug-In/programs

The Plug-in they are additional programs that interact with IC7300BKT, however, can be added like Plug-In whichever pro

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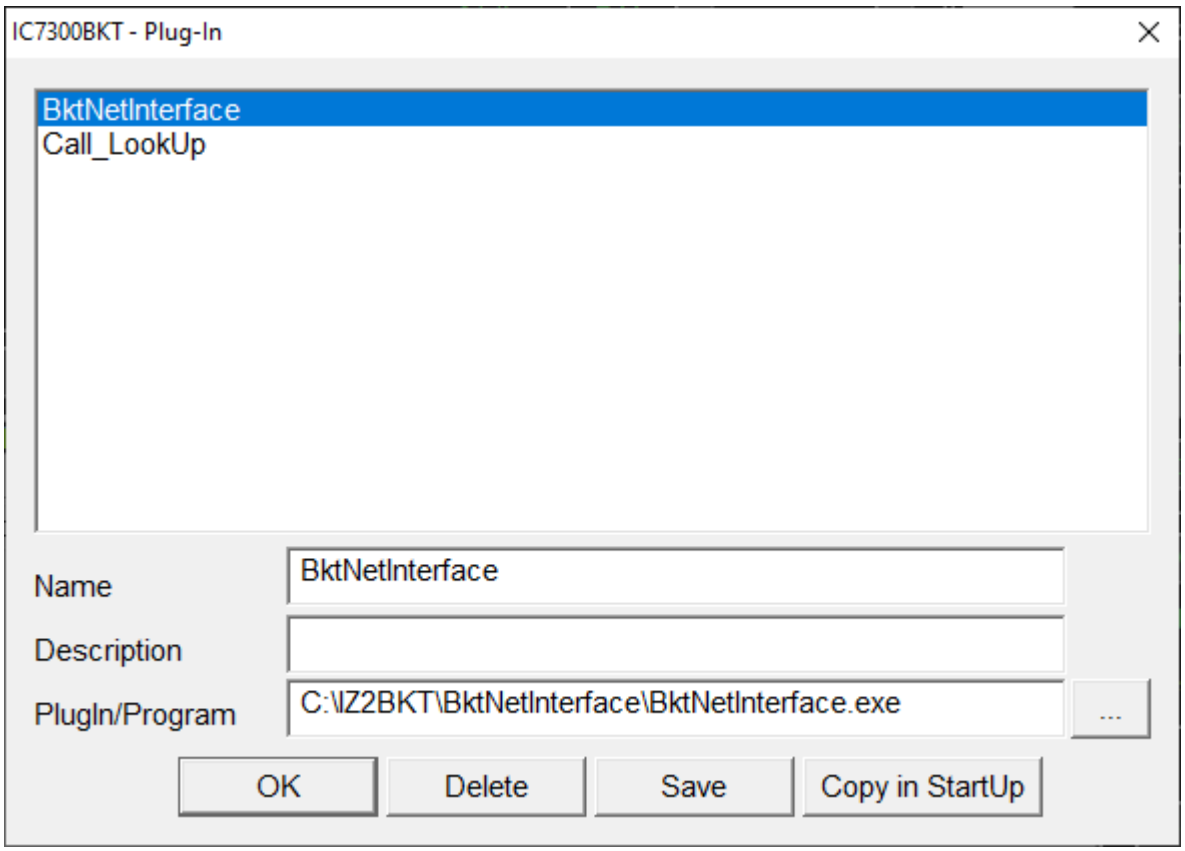
## Plug-In Management

# Plug-In

Top Previous Next

## Plug-In Management

Top Previous Next



Plug-in configuration.

| | |
|---|---|
| [Name] | Name of Plug-in |
| [Description] | Description of the Plug-in functions |
| [PlugIn/Program] | Command line of execution of Plug-in/program comprised of full path |
| [...] | Look in the folders to the search of Plug-in |
| [OK] | Returns to the program |
| [Delete] | Remove from the selected directory Plug-in (does not cancel Plug-in from the disc) |
| [Save] | Saves the modifications carried out to Plug-In selected |
| [Copy in StartUp] | Copy selected Plug-in in the group of programs Start and it will come executed to the IC7100BKT start |

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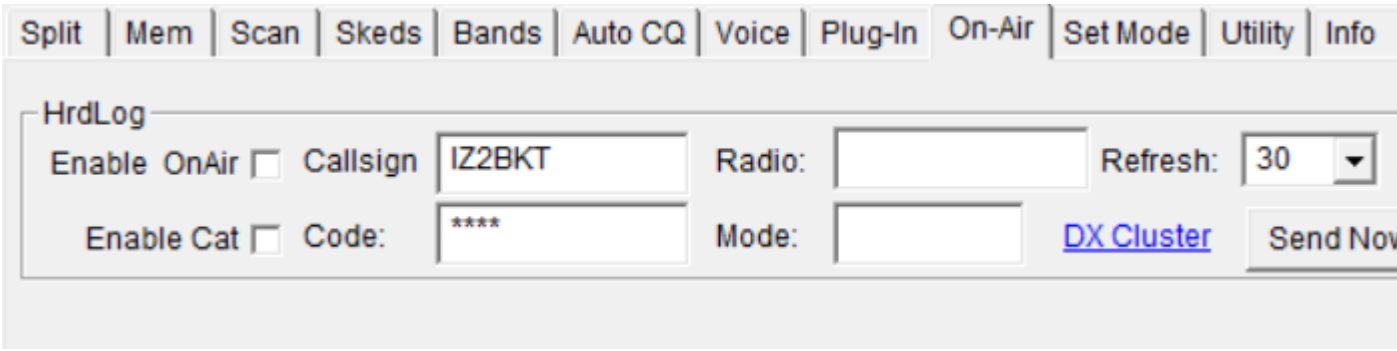
## OnAir

# Funzioni



## On Air






Send via internet the On-Air status with frequency and operating mode in HrdLog
If enabled, it adds some CAT features to HrdLog

[Enable] Enable / disable the automatic sending of the state
[Callsign] Callsign used in HrdLog
[Code] Enter the upload code received at registration on HrdLog
[Radio] Enter a descriptive text of the transceiver, if blank will be sent the description of the selected radio in configuration
[Mode] Mode, if blank will be sent to the current operating mode
[Refresh] Interval in seconds for sending a new state
[Send Now] Send status immediately

[Enable Cat] Enable the CAT interface to HrdLog, for example clicking on the frequency in the cluster page tunes the rtx (requires Microsoft .NET Framework 4)
[DX Cluster] Opens in the browser HrdLog DX clusters

On-Air operation requires an internet connection

More information about the On-Air are available on HrdLog

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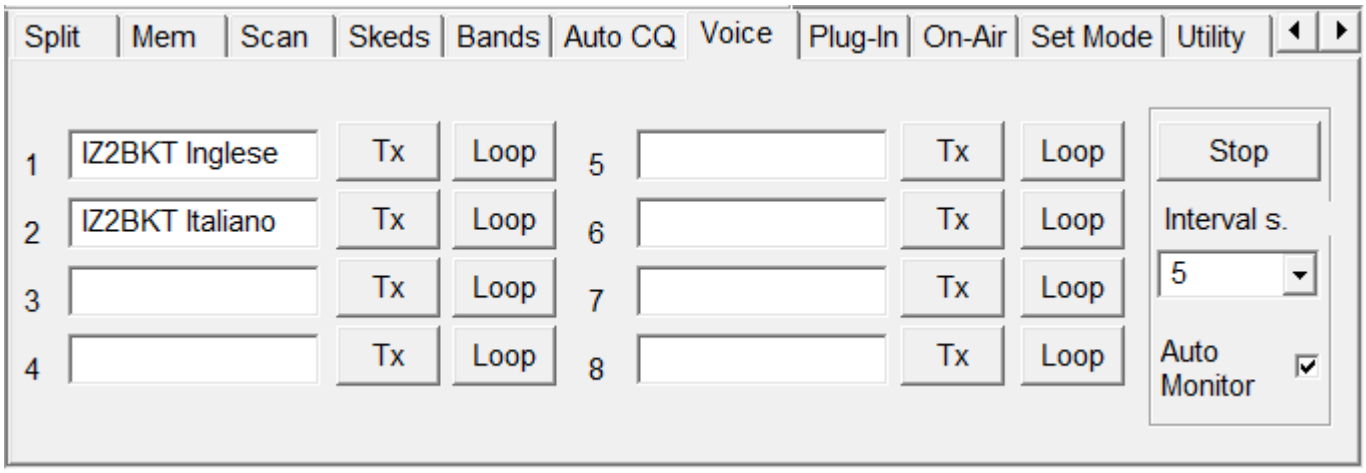
## Voice

# Funzioni

Top Previous Next

### Voice

Primo Precedente Prossimo




Transmits Voice memories stored in RTX

[Tx] Start transmission
[Loop] Repeats the transmission every specified seconds at interval
[Stop] Stop transmission now
[Auto Monitor] Activates the RTX monitor when it transmits
[Interval s.] Seconds of pause between transmissions when I turn on the Loop

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## Hook Clipboard

# Functions

Top Previous Next

### Hook Clipboard

Top Previous Next

To activate the Hook Clipboard means to intercept the data that are copied in the clipboard of Windows through the command Copy or pressing CTRL+C after having selected a text. After having intercepted them, they are analyzed and, if considered valid, that is that they contain an inclusive number in the range of frequency of the Icom 7000, they are used for setting frequency and operational mode in accord with the settaggio of the limits of band and mode.

The principal purpose of this function is I data exchange data with programs DXCluster.

Example of use with the program RxClus:
1) Activate the function Hook Clipboard
2) Activate RxClus
3) When it passes an interesting spot, select the frequency and press the keys Ctrl+C, the RTX will be planned on this frequency.

For a correct exchange of data it is necessary to correctly shape the parameters <Communication with the Clipboard> in the mask of configuration, besides to use the mask of Setting Limits of band and mode to select the mode of transmission corrected in base to the frequency of the spot.

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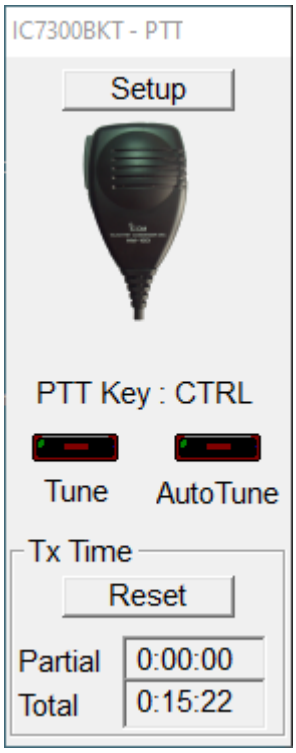
## PTT

# Functions



## PTT






Click on the microphone for switch transmission/reception, or, to press the chosen key in configuration.

[Setup] Open the mask of configuration of the PTT configuration
[Tune] Selects operating mode and power specified and switch in transmi
the seconds configurate
[Auto Tune] Start or Stop the automatic antenna tuner.

**Tx Time**

Reset the counter time of TX

[Partial] Time of transmission from the start of this session of the prograı
[Total] Time of transmission from the last time [Reset]

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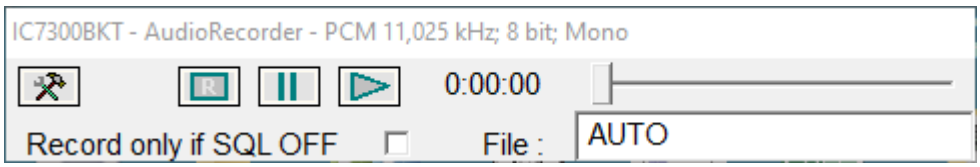
## Recorder audio

### Functions

Top Previous Next

#### AudioRecorder

Top Previous Next




The AudioRecorder is a digital recorder. For a corrected operation it must connect the audio card of the PC with the RTX (to see connection), one just chosen of the CoDec is also a lot important to use for the recording (to see audio configuration).

**Audio configuration**

**Starts/stops the recording.**

**Suspends/resumes the recording or the reproduction.**

**Starts/stops the reproduction.**

**[Record only if SQL OFF] If checked, it starts the recording only in presence of a and suspended when the signal interrupts (SQL ON)**

**[File] It is possible to specify a file audio, if he leaves AUTO, to the beginnin will be produced a file by the name BKTyymmddhhmmss.WAV, where mm=month, dd=day, hh=hour, mm=minute, ss=second of beginning recordi AUTO and starting the play is opened a window from which to select t**

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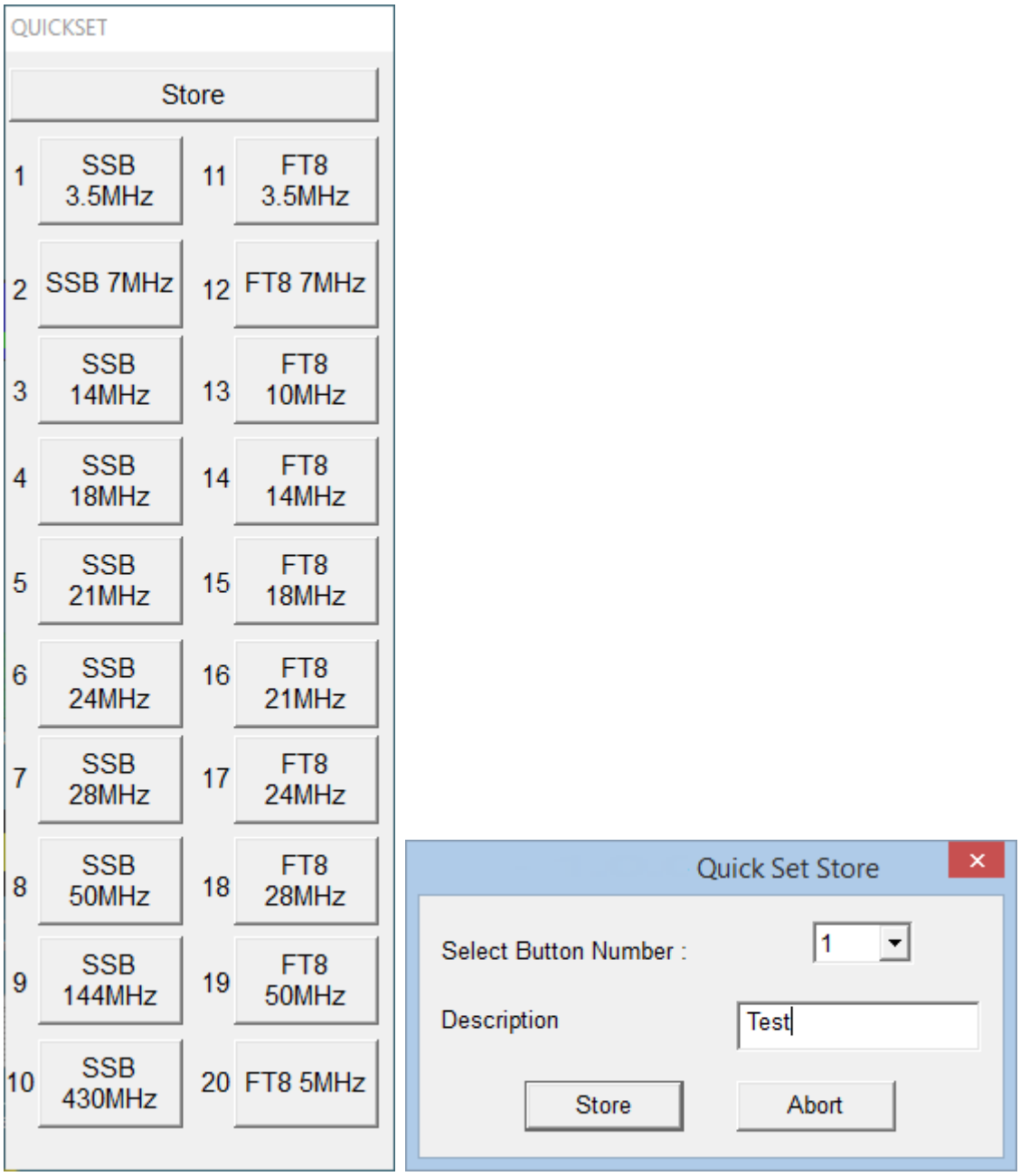
## QuickSet

### Functions

Top Previous Next

#### QuickSet

Top Previous Next




Each of the 20 keys stores: Frequency, Mode, VFO in use, Attenuator, Preamplifier, SQL, Power, RF, Filter, NR, NB and ANF.

Pressing the [Store] saves the current values of Frequency, Mode, VFO in use, Attenuator, Preamplifier, Squelch, Power, RF, Filter selected, NR, NB ANF and Compressor Mic State in the chosen key.

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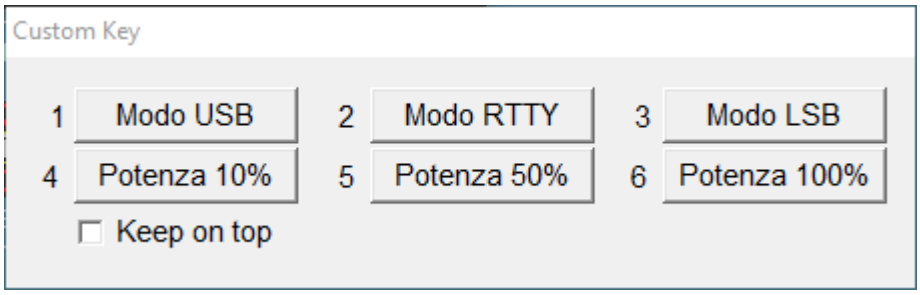
## Custom Key

# Function

Top Previous Next

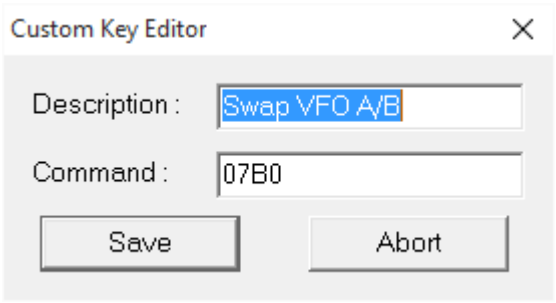
## Custom Key

Top Previous Next




The Custom Keys are programmable keys with CI-V commands (for a list of commands CI-V, see the manual RTX)

Click the button to send the command previously stored instead to change or enter a new command, click on the button with the right mouse button.




The editor allows you to customize the custom key with the desired description and the command to be sent. The commands must be entered in hexadecimal and always with an even number of characters, for example, for the command 7 inert 07.

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## Various

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### List

**Various** Top Previous Next

**List** Top Previous Next

List of selected value

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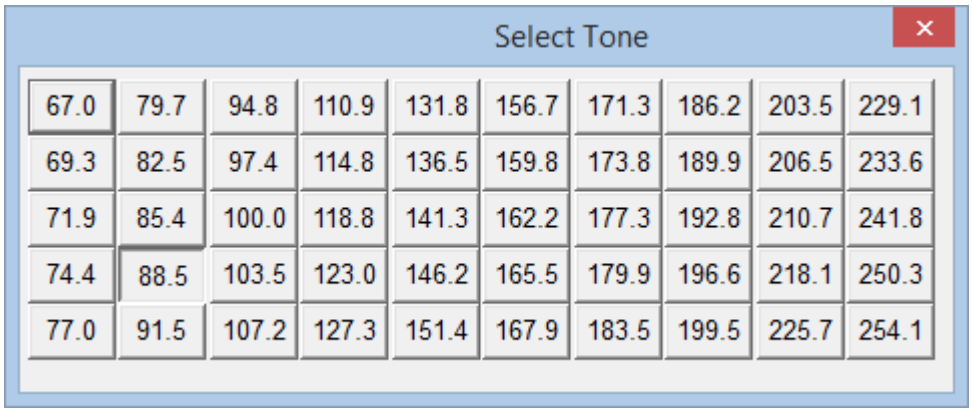
### Tone

**Various** Top Previous Next

**Tone** Top Previous Next




Click on the code of wished Sub-Tone.

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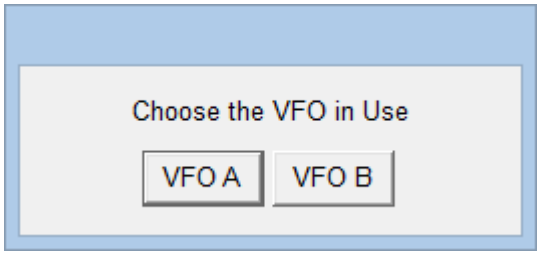
## Chosen VFO

# Various

Top Previous Next

## Chosen VFO

Top Previous Next




Select the VFO currently in reception.

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## OFF-LINE Mode

# Various

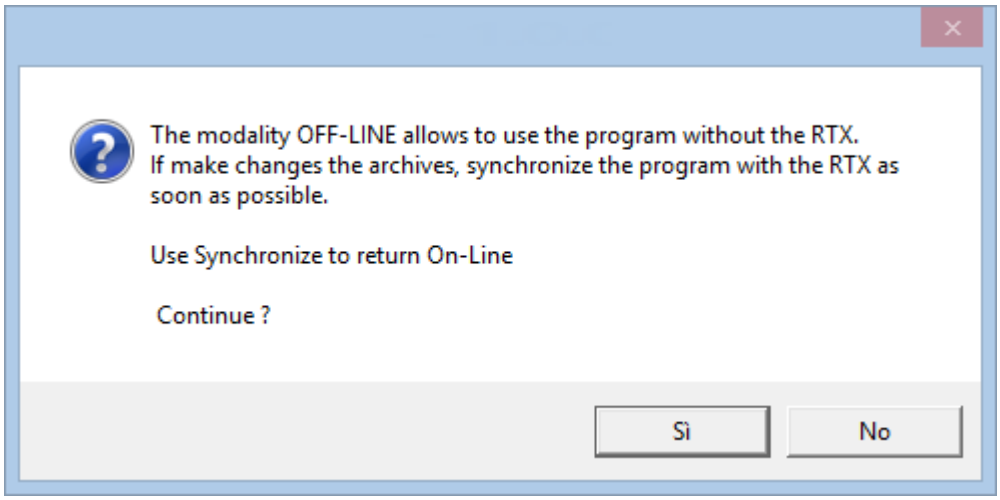
Top Previous Next

## OFF-LINE Mode

Top Previous Next

No communication with the radio.

[Exit] Close the program
[Power On] Try to turn on the radio
[Work off line] Use the program not connected to the RTX, the modifications to the memory database will not reflected in the RTX until the next Synchronization




For return ON-LINE use the Synchronize key in main window.

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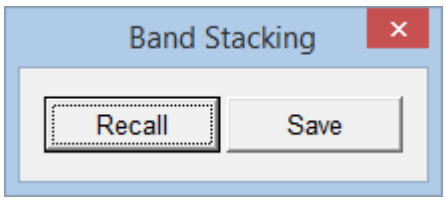
## Band Stacking

# Various

Top Previous Next

## Band Stacking

Top Previous Next




[Recall] Loads frequency and operating mode previously saves in this operating stack

[Save] Saves frequency and operating mode in the operating stack chosen

The triple operating stack allows to save three comprehensive memories for frequency band and operating mode.

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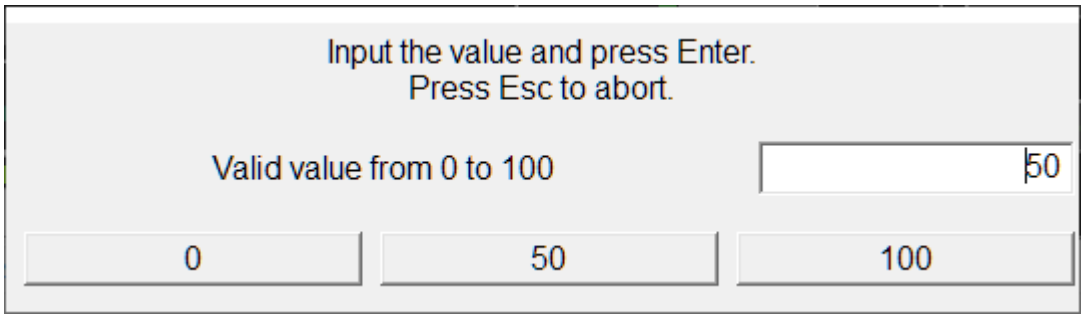
## Numerical Input

# Various

Top Previous Next

## Numerical Input

Top Previous Next




Input a value comprised between the values specifies and press the Enter key, to cancel the input press ESC .

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## Progress Indicator

# Various

Top Previous Next

## Progress Indicator

Top Previous Next

Pointer of progress of the operation in course.

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## Function Full Version

# Various

Top Previous Next

## Function Full Version

Top Previous Next

The chosen function is available only in Full version, however, if you have registered the Free version the received key allows to try these functions for a sure period.

[Register the program] Opens window to load the registration key or to have information on the program registration
[Continue] The execution of the program continues, the function won't be executed

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# Remote management by TCP/IP

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## Remote management by TCP/IP

### Remote management by TCP/IP

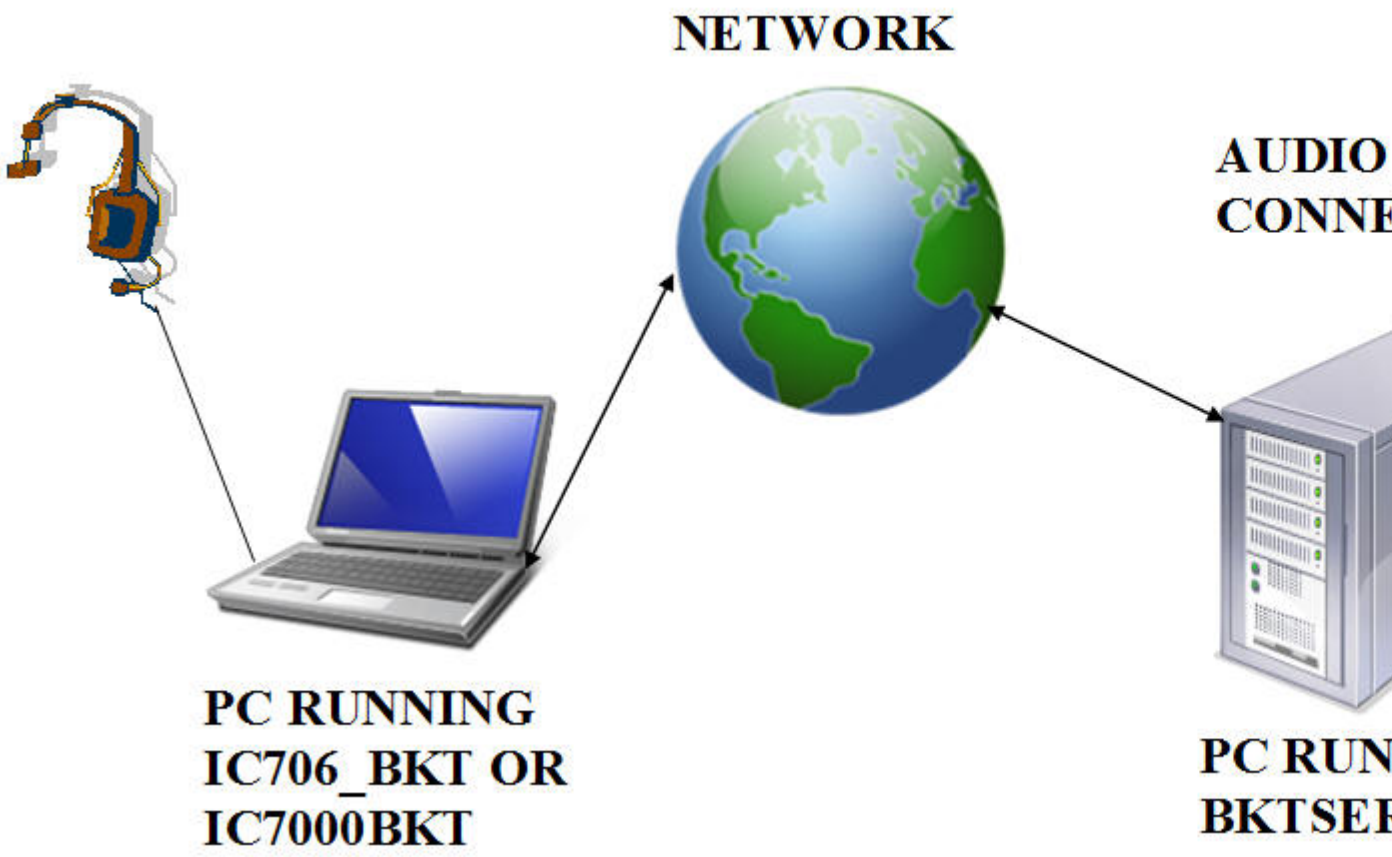
Top Previous Next

The remote management by TCP/IP is managed through two separate moduls:

1. Server BKTServer
   Running on the computer connected to the RTX.

2. Client BKTClient

Is necessary opening the communications port (default 7060 TCP) on the firewall.

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## BKTClient

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### Access Control

## BKTClient

Top Previous Next

### Access Control

Top Previous Next

BKTClient start window.

[Connect to] Address IP of the PC server
[Password] Password connection, only used if required by the server.

[Connect to startup] If selected not shown this window but connect directly to the server.
[Setup] BKTClient configuration.
[Connect] Starts the connection to the server.
[Exit] Closes the program.
[Off-Line] Executes IC7300BKT without connecting it to the server.

Wait of the connection to the server.

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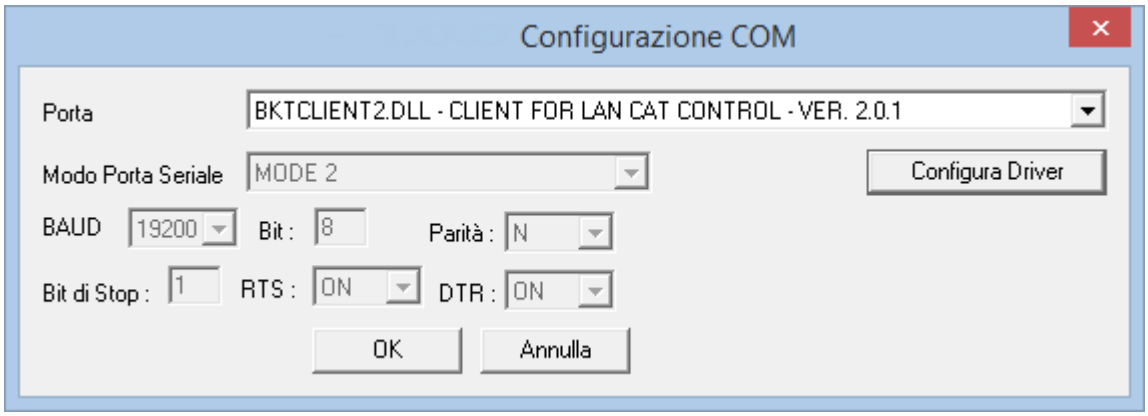
## BKTClient

# BKTClient

Top Previous Next

## Select

Top Previous Next




For enable the driver BKTClient to select BKTCLIENT.DLL as Port in the serial port configuration of the program IC7100BKT, IC7000BKT or IC706_BKT.
[Driver Setup] Configure the BKTClient.

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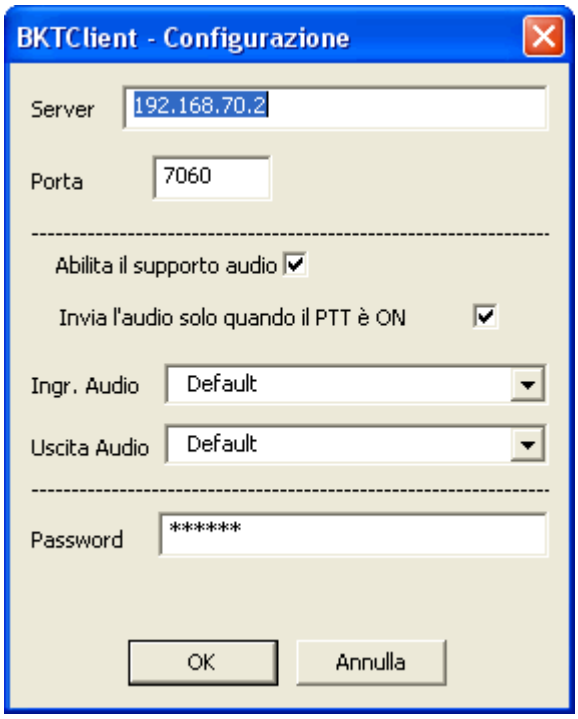
## Configuration

# BKTClient

Top Previous Next

## Configuration

Top Previous Next




| | |
|---|---|
| [Server] | IP address of the PC server with in execution BKTServer |
| [Port Com.] | LAN port of communication |
| [Local IP] | If you have multiple LAN cards you can specify the local IP address. |
| [Enable Audio Support] | Enables the receipt/ transmission of the audio. For a correct working the server pc must have the audio card connected to the RTX, the pc client uses the microphone to transmit. Is not possible transmit audio file |
| [Send audio only when the PTT is ON] | Will transmit the audio from the client toward the server only when the PTT is active, this allows to have a lower band transmission |
| [Audio input] | Select the audio card which the microphone is connected on and enable the microphone entry from Windows mixer |
| [Audio output] | Select the audio card where to listen to the audio received from the server, regulate the volume using Windows mixer |
| [Password] | Password connection, only used if required by the server |

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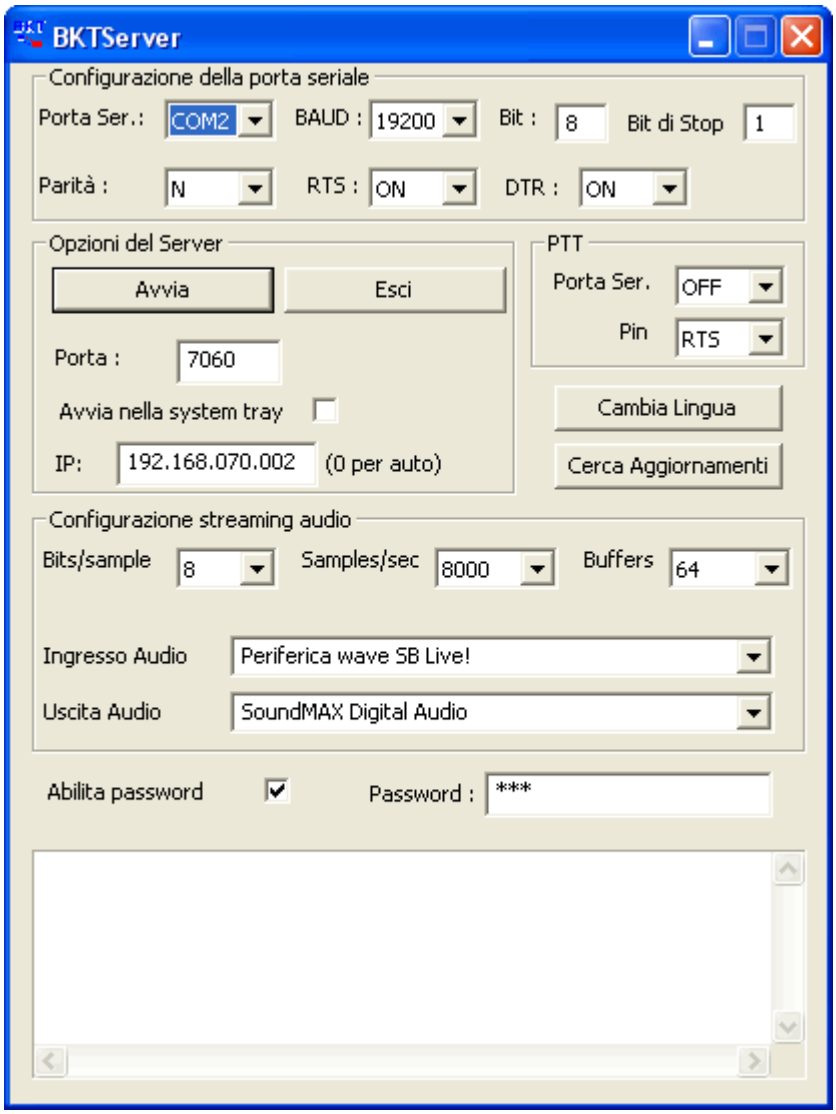
## BKTServer

# BKTServer

Top Previous Next




BKTServer must be in execution on the remote computer attached to the RTX.
[Serial Port Configuration]
Specify the parameters of connection with the RTX.
[Server Options]
Data Port:
Port LAN of listening and communication (default = 7060) (she must be opened by the firewall).
Autostart in system tray: He starts the server automatically and reduces it to icon in the system tray.
IP:
IP address of listening, if 000.000.000.000 BKTServer automatically selects the IP of the first net interface. Attention him IP choosing must be associate to a network interface of the computer where is in execution BKTServer.
[PTT]
Specifies the PTT parameters (see PTT configuration in the help of the program IC706_BKT.)
Not used for the Icom IC-7000 and IC-7100.

Change Language: Program language to use.
Check for update: Check if new version its avaible. Need a internet connection.
[Audio Stream Configuration]
Specify the parameters audio, increasing the values of Bits/sample and Samples/sec it will increase the fidelity of the audio but it needs greater band. Increase the Buffers if loss audio packets.

Enable password: if set only client with correct Password is available to connect.

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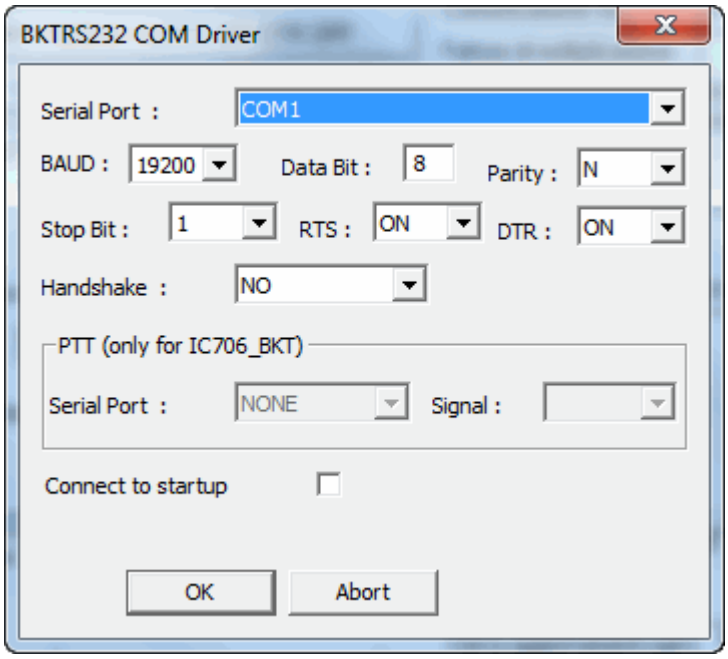
# BKTRS232 Alternative serial driver

## BKTRS232 Alternative serial driver

Top Previous Next




Use this driver if you have communication problems with the RTX.

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# Interfacing with other programs

## Interfacing with other programs

Top Previous

IC7300BKT includes a DDE server compatible with the suite DXLab that allows you to communicate with different programs including MultiPSK, FLDigi with Fldigi-DXLab Gateway installed, JT65_HF, SpotCollector and other compatible with Commander of DXLab suite.

**For a proper functioning of the DDE server requires that the program IC7300BKT is executed BEFORE any other program.**

If DDE doesn't work, it's possible to enable the LAN Protocol in the configuration to use IC7300BKT with JTDX, WSJT-X, JS8CALL, MSHV, etc...

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