

IC7300BKT Icom IC-7300 CAT Control

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	10
Configuration PTT	11
Audio configuration	12
Language selection	13
Limits of band and mode	13
Startup programs	14
Main Window	15
Split	17
Memories	18
Management Memories	18
Editing Memory Bank	19
Memorize the current setting	20
Synchronization of the memories	20
Memory Import / Export	21
Scanner	23
Scanner	23
Scansion Log	24
Scanner Preset	25
Frequency to ignore	26
Skeds	27
Skeds	27
Activation sked	28
Generate recur skeds	28
Delete skeds	29
Bands	30
Set Mode	30
CW Setting	31
Setting	32
Utility	33
AutoCQ	34
Plug-in	34
Plug-In Management	35
OnAir	36
Voice	37
Hook Clipboard	37
PTT	38
Recorder audio	39
QuickSet	39
Custom Key	40

Various	41
List	41
Tone	41
Chosen VFO	42
OFF-LINE Mode	42
Band Stacking	43
Numerical Input	44
Progress Indicator	44
Function Full Version	44
Remote management by TCP/IP	45
Remote management by TCP/IP	45
BKTClient	46
Access Control	46
BKTClient	47
Configuration	47
BKTSerVer	48
BKTRS232 Alternative serial driver	50
Interfacing with other programs	50

Information on IC7300BKT

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What it is

IC7100BKT

[Top](#) [Next](#)

What it is

[Top](#) [Next](#)

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The screenshot displays the IC7300BKT - Cat Control by IZ2BKT software interface. The main window features a central frequency display showing 7.144.000 MHz. Above this display are several control buttons: Mini, Store, Sync., and Polling. To the left of the frequency display are sliders for AF, SQL, PO, and RF. To the right are buttons for LSB, Data, Filter:2, and SOFT. Below the frequency display are status bars for SIG, SWR, PO, COM, ALC, Vd, and Id. A secondary window titled 'IC7300BKT - PTT' is visible on the left, showing a microphone icon and controls for PTT Key (CTRL), Tune, AutoTune, and Tx Time. A third window at the bottom shows an audio recorder interface with a play button and a file name 'AUTO'.

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

[Top](#) [Previous](#) [Next](#)

For communication with the PC board using the USB connection of the RTX installing drivers Icom, alternative 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

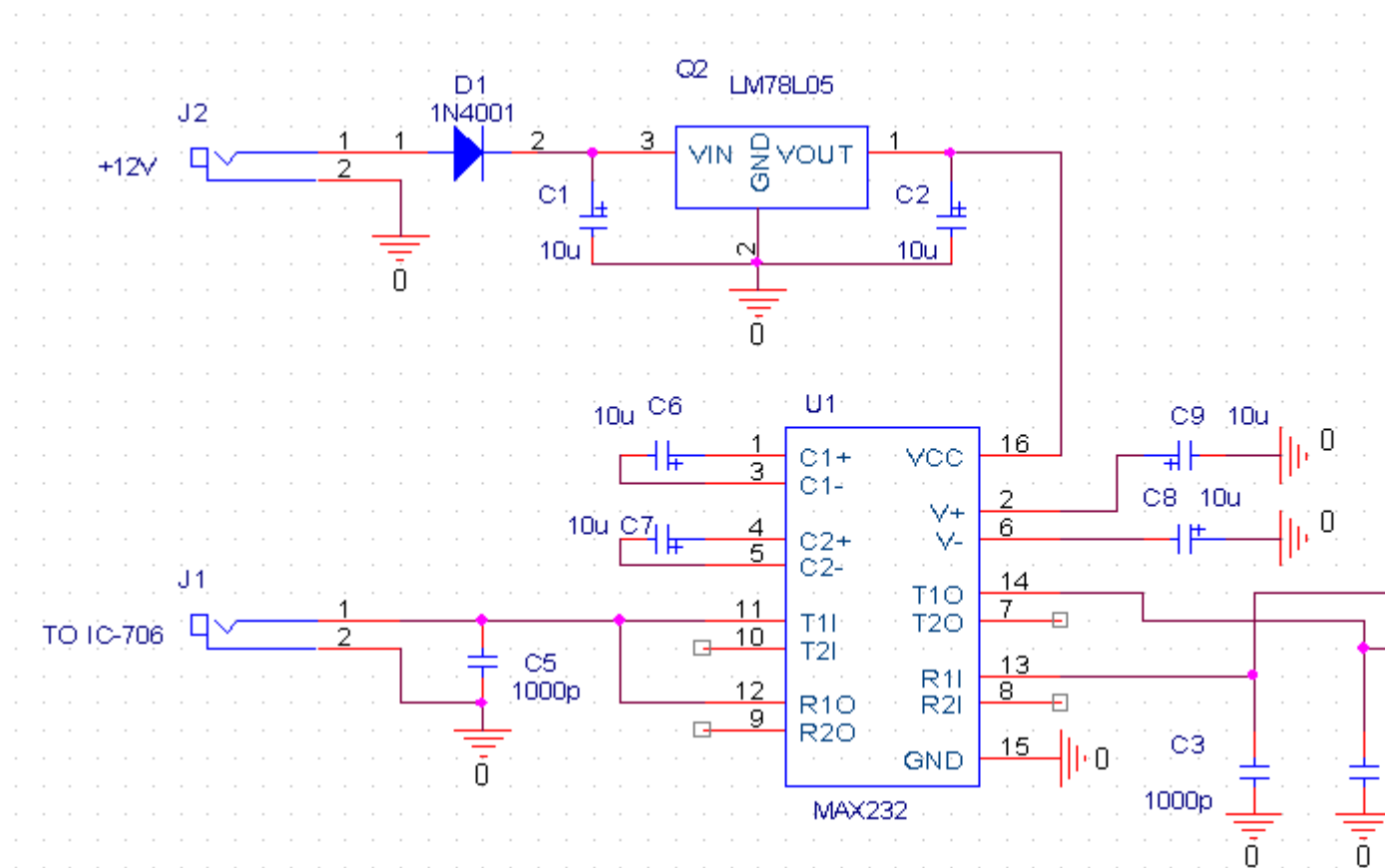


Fig. 1

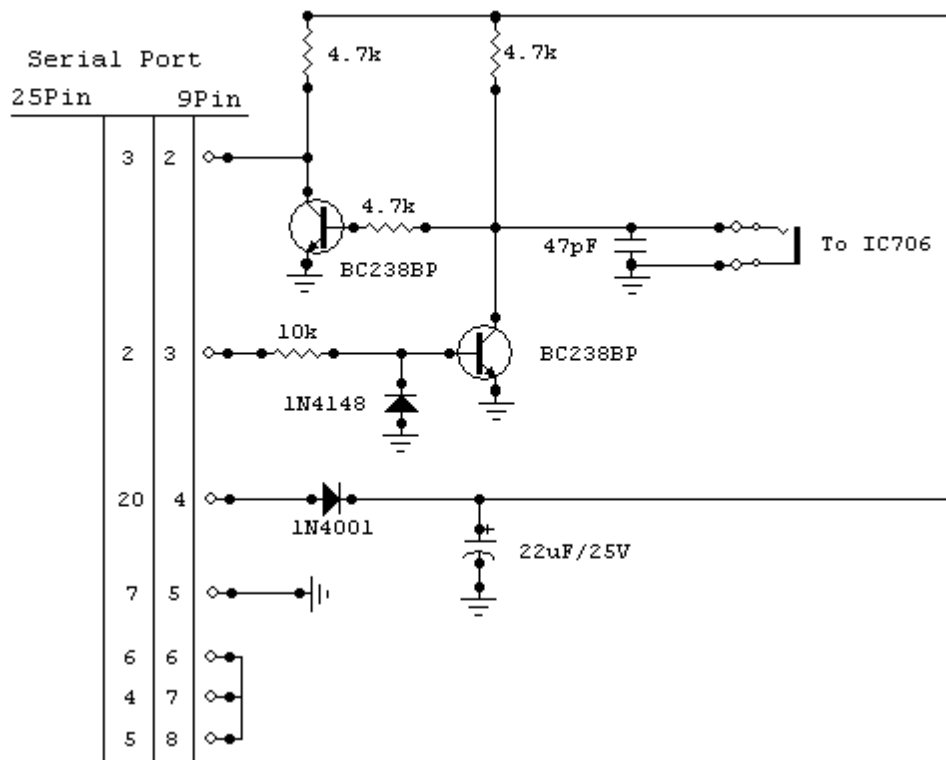


Fig. 2

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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

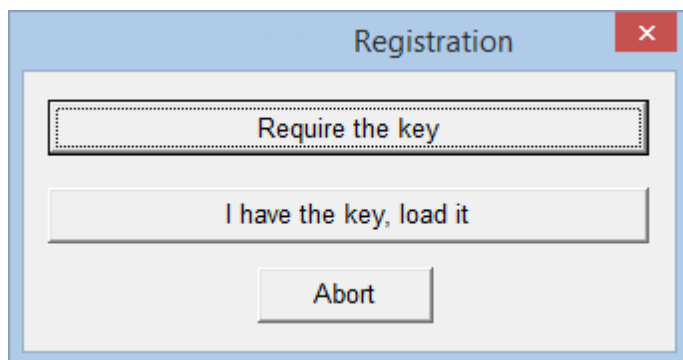
Various improvements

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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

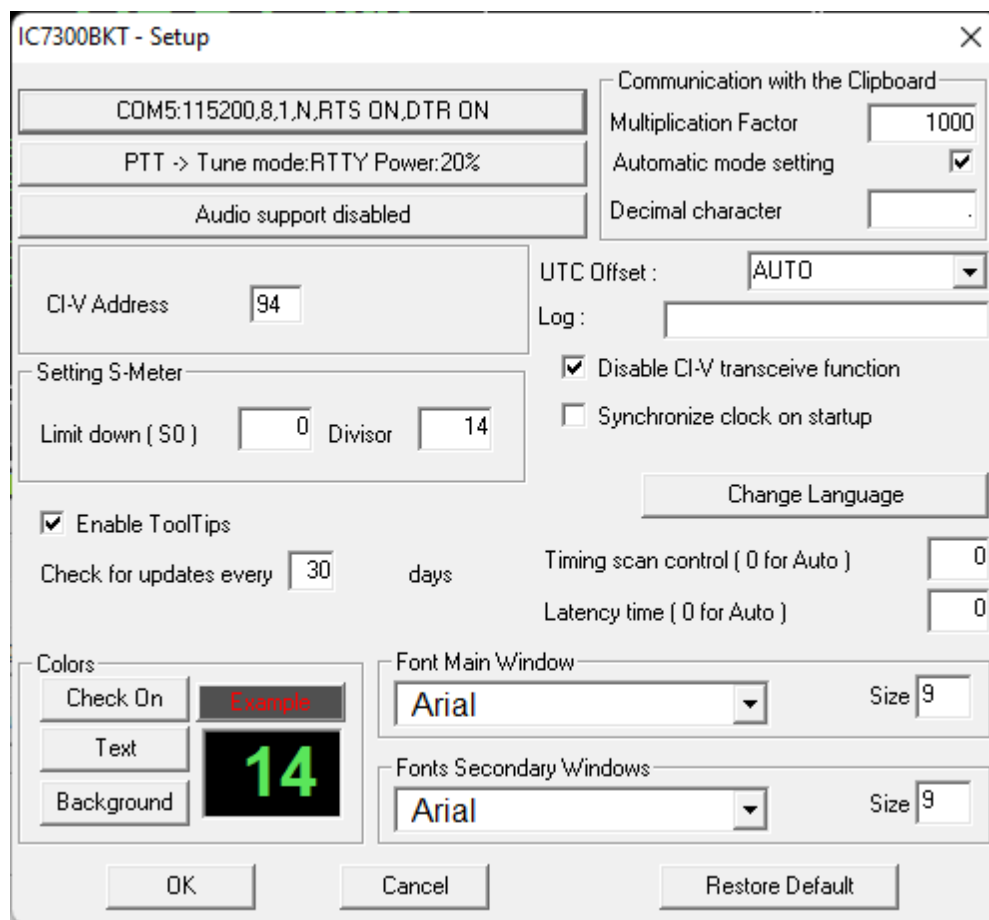
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Configuration

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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 the 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 milliseconds, 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 balloons

[Check for updates every] Range of days for automatic updates of the program. Set to 0 not to check.

[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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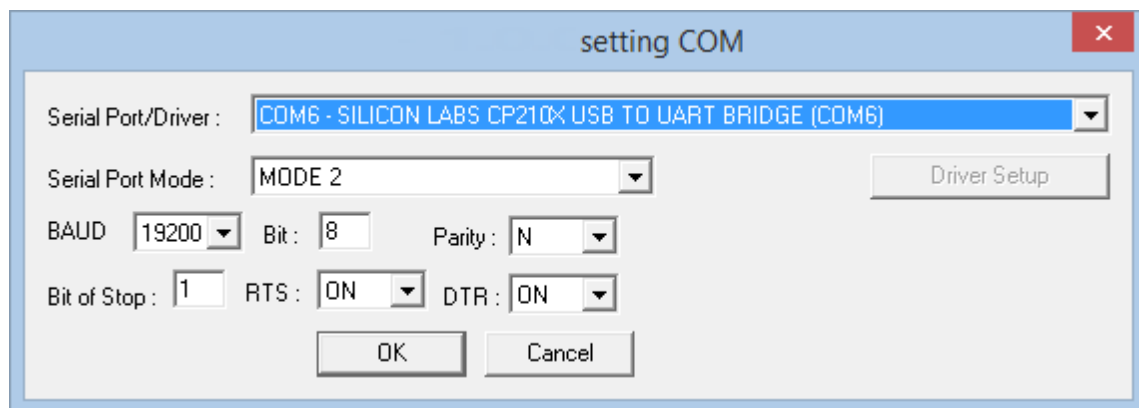
Configuration COM

Configuration

[Top](#) [Previous](#) [Next](#)

Configuration COM

[Top](#) [Previous](#) [Next](#)



These parameters are essential for a good operation of the program. If a transistor [interface](#) 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](https://www.maniaradio.it/forum/showthread.php?tid=425) 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](#)

IC7300BKT - PTT Setup

Tune software emulation

Mode: RTTY Power: 20 % Seconds: 5

Use 1KHz tone ☒

Switch USB input while tuning or transmit 1750Hz ☒

Key for PTT: CTRL ☐ Key PTT keep in front

Clipboard

PTT: @[on]@

PTT: @[off]@

OK Cancel

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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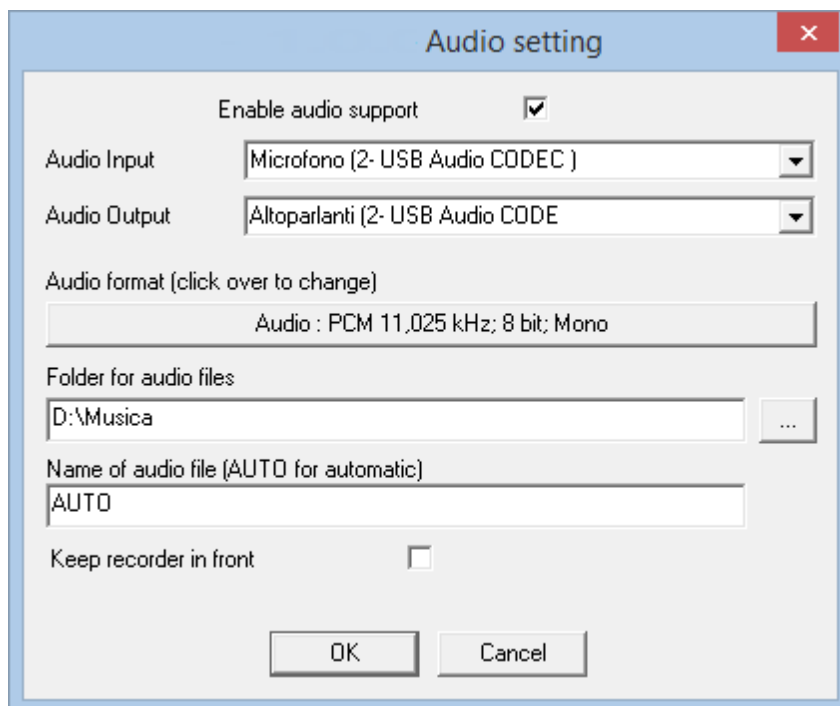
Audio configuration

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 device.

[Audio Output] Chose the audio device for output. Default for windows default device.

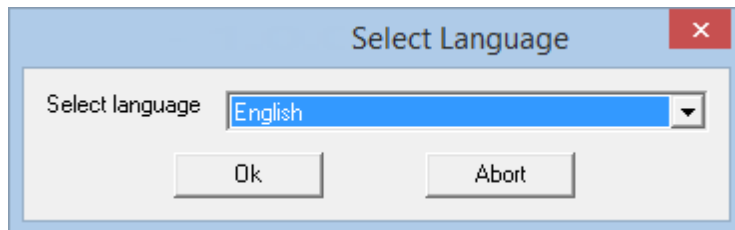
- [Audio format] Choose the audio format to use for the recording. To record vocal communications is preferred to install a CoDec MP3 and choose the low quality. With the configuration in figure, an hour of recording occupies approximately 3,5Mb of disc. To record digital communications them convene to use format PCM, in this case the occupation on disc will be much high. The extension of the files audio is WAV.
- [Folder for audio files] Folder for saves the audio files. If the field is empty, it comes used the folder where the program is installed.
- [Name of audio file] it is possible to specify a default name to use for the files audio, if he leaves AUTO, to the beginning of every recording, a file will be produced by the name BKTymmddhhmmss.WAV, where yy=year, mm=month, dd=day, hh=hour, mm=minute and ss=second of beginning recording.
- [Keep recorder in front] If activated, the Audio Recorder is always maintained in front of all the other 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](#)

Band and mode limits

General coverage of RTX

From Hz To Hz

Band : ▾

From Hz To Hz

Mode	Low limit Hz	High limit Hz
CW	<input type="text" value="1.800.000"/>	<input type="text" value="1.838.000"/>
RTTY	<input type="text" value="1.830.000"/>	<input type="text" value="1.834.000"/>
LSB	<input type="text" value="1.838.001"/>	<input type="text" value="2.000.000"/>
USB	<input type="text" value="0"/>	<input type="text" value="0"/>
FM	<input type="text" value="0"/>	<input type="text" value="0"/>

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.

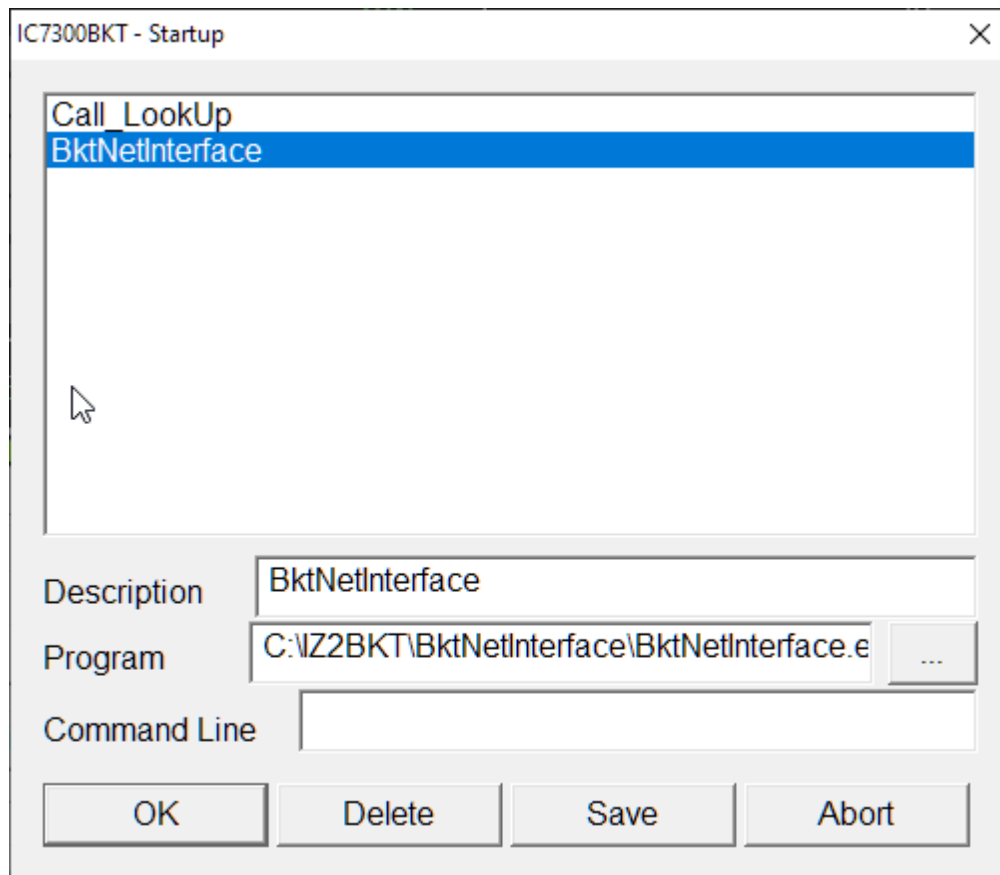
Startup programs

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

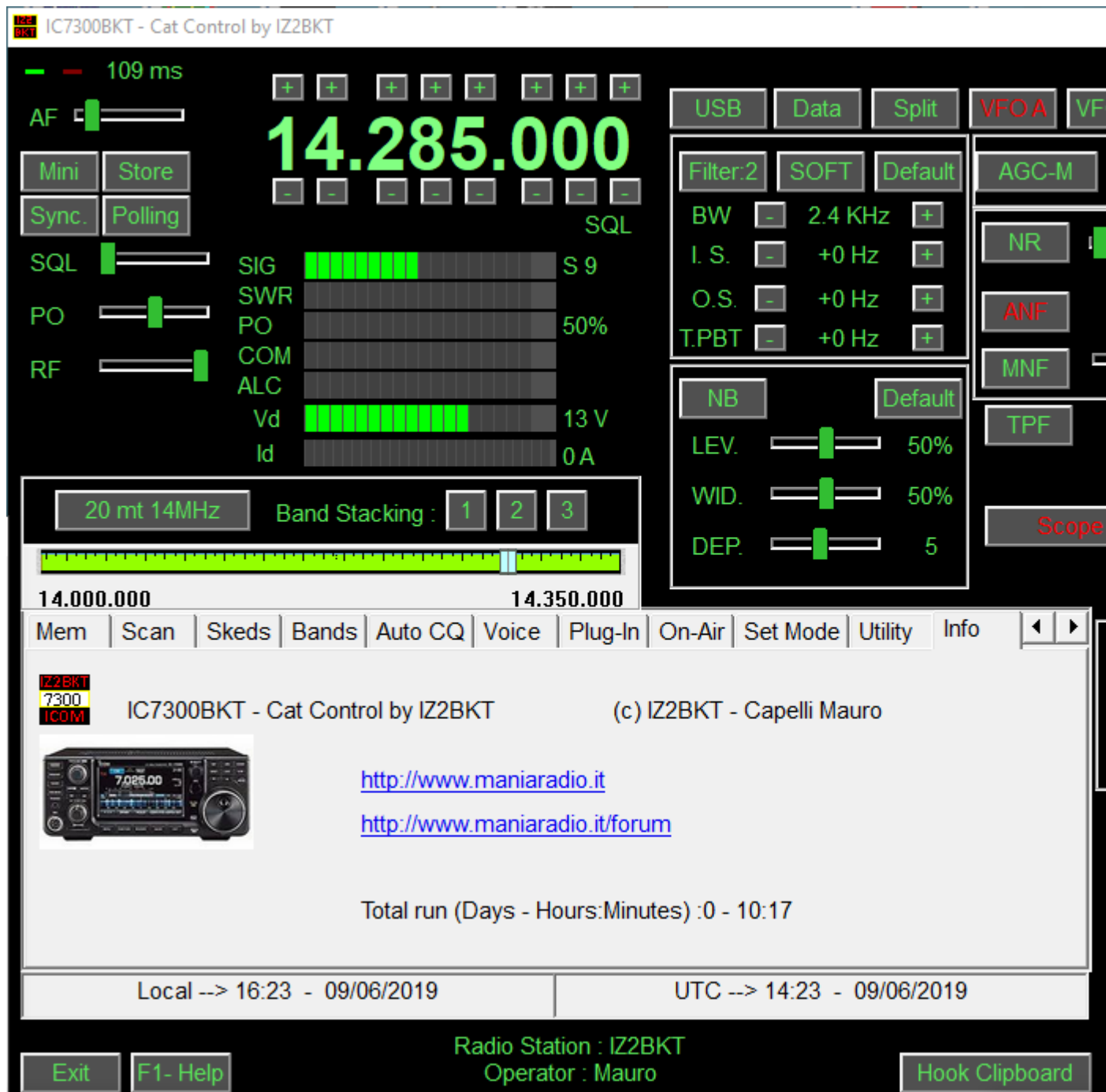
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Main Window

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 - disposed 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 syntonized. Press mouse right key for [numerical input](#) of the frequency.

Keys:

All the keys are easily identifiable, signal:

[Mini] Hides all windows and activates the interface minimized (see below)

[Sync.] Reset and restart the connection between RTX and program.

[Polling] If active periodically reads the values of the rtx controls, if deactivated controls only SMeter, Frequency and Mode. If you are using a LAN/internet or you are using a slow connection to the rtx is recommended to disable Polling.

[Store] [Memorizes the active values.](#)

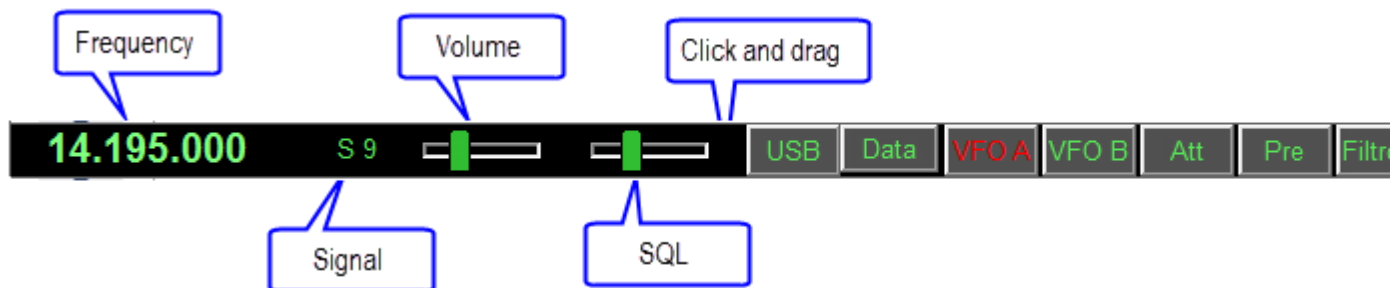
[Band Stacking] Saves/Recalls frequency and operating mode from the operating stacks.

[Rev.] Active only if active DUP or DUP-. Swap frequency transmission with receive.

[Help] Visualizes this guide.

[Exit] Exits from the program.

[Hook Clipboard] Enable/disable the elaboration of the data of the clipboard of Windows.

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](#)

Split	Mem	Scan	Skeds	Bands	Auto CQ	Voice	Plug-In	On-Air	Set Mode	Utility	Info
-------	-----	------	-------	-------	---------	-------	---------	--------	----------	---------	------

List Split

Up 5

Delete New Save Active

Description Up 5

Split +5.000.000 Hz LSB Filter 1

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

[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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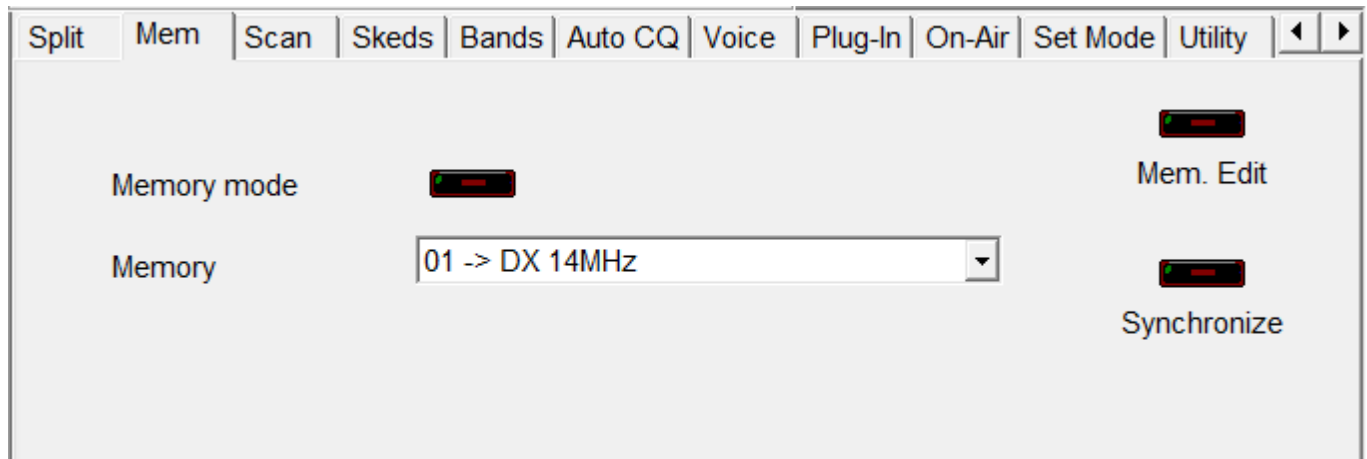
Management Memories

Memories

[Top](#) [Previous](#) [Next](#)

Memories Management

[Top](#) [Previous](#) [Next](#)



[Mem. Edit]	It opens/Closes window of management of the memories of this bench
[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](#)

 IC7300BKT - Memory Bank -



△	Description	Rx Freq.	Rx Mode	Rx Filter	Rx Data M.	Rx Tone	Rx TSqL	Rx T.Ac.	Split	Tx Freq.
01	DX 14MHz	14.195.000	USB	2	OFF	67.0	67.0		OFF	14.950.0
02	FT8 18MHz	18.100.000	USB	1	ON	67.0	67.0		OFF	18.100.0
03	FT8 3.5MHz	3.574.000	USB	1	ON	88.5	88.5		OFF	3.574.00
04						67.0	67.0			
05						67.0	67.0			
06						67.0	67.0			
07						67.0	67.0			
08						67.0	67.0			
09						67.0	67.0			

Memory : 01 DX 14MHz ☐ Selected 

RX

Frequency: 14.195.000
 Mode: USB
 Filter: 2
 Tone: 67,0
 TSqL: 67,0
 Data Mode: OFF



TX

Frequency: 14.950.000
 Mode: USB
 Filter: 2
 Tone: 67,0
 TSqL: 67,0
 Data Mode: OFF



Every variation, insertion and cancellation effected in this window will be reflected in the memories of the RTX (excluded the

Click on the description of the column, you can change sorting display of memories (for example, description, frequency, m

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 Frequency, Mode and Filter to the VF

[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 po

[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 v

[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 overwritten

[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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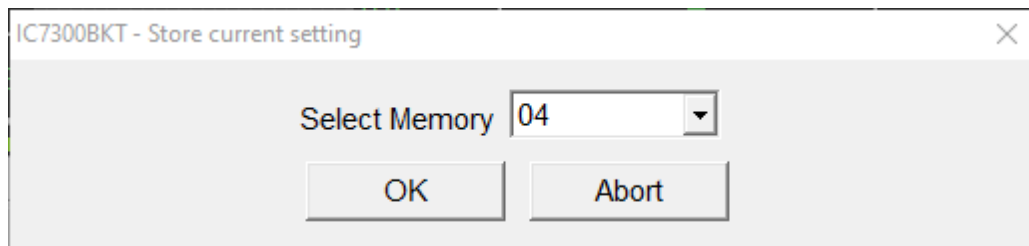
Memorize the current setting

Memories

[Top](#) [Previous](#) [Next](#)

Memorize the current setting

[Top](#) [Previous](#) [Next](#)



[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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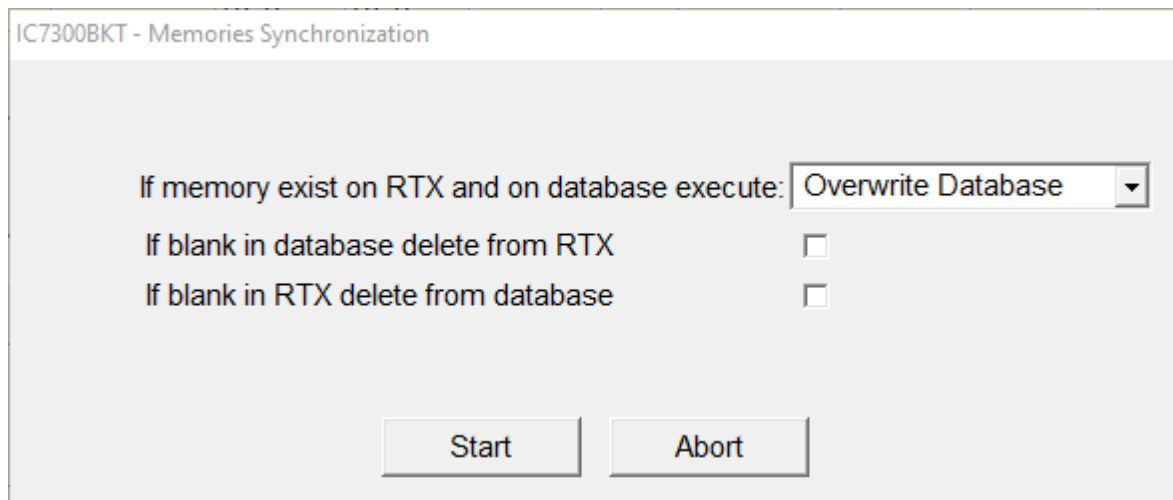
Synchronization of the memories

Memories

[Top](#) [Previous](#) [Next](#)

Synchronization of the memories

[Top](#) [Previous](#) [Next](#)



IC7300BKT - Memories Synchronization

If memory exist on RTX and on database execute: Overwrite Database

If blank in database delete from RTX ☐

If blank in RTX delete from database ☐

Start Abort

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

[If blank in database delete from RTX] If the memory in the database is empty it will be cancelled in the RTX. To cancel the memory the RTX will come put in Memory Mode and selected the memory by to cancel.

[If blank in RTX delete from database] If the memory in the RTX is empty it will be cancelled by the database.

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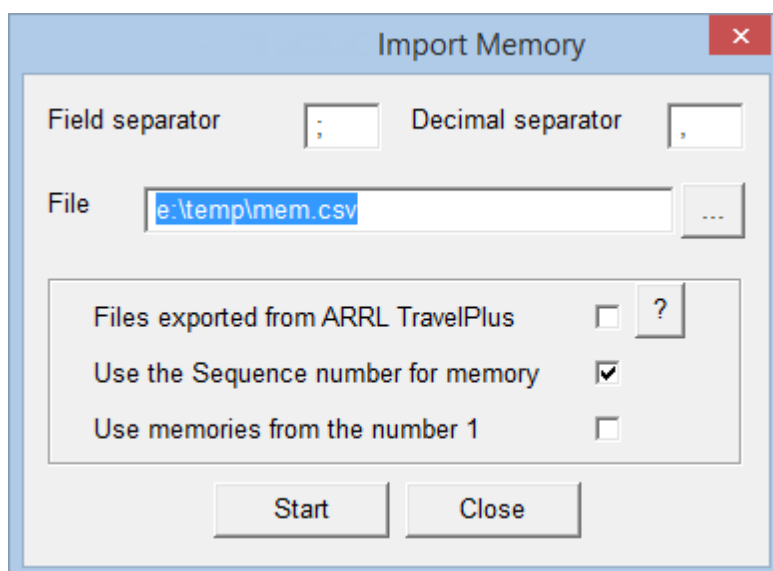
Memory Import / Export

Memory Import / Export

[Top](#) [Previous](#) [Next](#)

Memory Import / Export

[Top](#) [Previous](#) [Next](#)



Import Memory

Field separator : Decimal separator ,

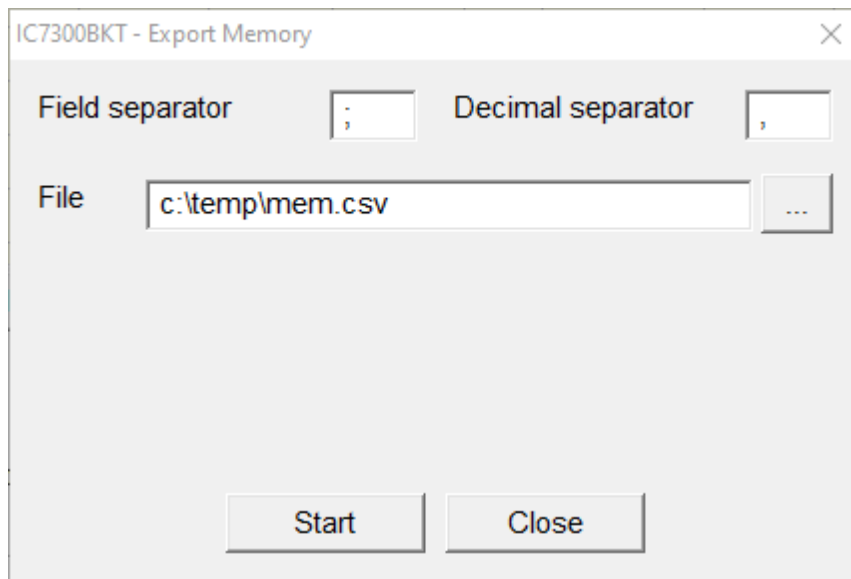
File e:\temp\mem.csv ...

Files exported from ARRL TravelPlus ☐ ?

Use the Sequence number for memory ☒

Use memories from the number 1 ☐

Start Close



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 :

Select Columns and Max. Width			Column Sequence	Format	
<input checked="" type="checkbox"/> Sequence Number	Truncate	Max.	To change the sequence in which columns are exported, highlight the column name and up it up or down in the list: <div> Sequence Number Output Frequency Input Frequency Call Sign CTCSS Tones </div>	<input checked="" type="radio"/> Comma Delimited File <input type="radio"/> Tab Delimited File <input type="radio"/> HTML <input type="radio"/> XML Spreadsheet	
<input type="checkbox"/> Band				<input checked="" type="checkbox"/> Include Column Headings	
<input type="checkbox"/> Country				Pre-Defined Formats: <input type="button" value="Radio Programming Format"/> <input type="button" value="User-Defined Band Format"/>	
<input type="checkbox"/> State				Note: Data can also be selected from a list by row selection or Edit > Select All Columns. Then use Edit > Copy to copy to clipboard for pasting into other applications such as Excel.	
<input type="checkbox"/> Region					
<input type="checkbox"/> Location					
<input checked="" type="checkbox"/> Output Frequency					
<input checked="" type="checkbox"/> Input Frequency					
<input checked="" type="checkbox"/> Call Sign					
<input type="checkbox"/> Repeater Notes					
<input checked="" type="checkbox"/> CTCSS Tones					
<input type="checkbox"/> Sponsor					
<input type="checkbox"/> Distance					
<input type="checkbox"/> Bearing					
<input type="button" value="Select All"/> <input type="button" value="Clear All"/> <input type="button" value="Reset Default Max. Widths"/>				<input type="button" value="Reset Default Sequence"/>	

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Scanner

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Scanner

Scanner

[Top](#) [Previous](#) [Next](#)

Scanner

[Top](#)

Split	Mem	Scan	Skeds	Bands	Auto CQ	Voice	Plug-In	On-Air	Set Mode	Utility	Info
Start frequency : <input type="text" value="0"/> Hz Mode <input type="text" value="FM"/> Filter <input type="text" value="1"/>											
End frequency : <input type="text" value="0"/> Hz Step <input type="text" value="5 KHZ"/> Speed <input type="text" value="Slow"/>											
Scan Memory <input checked="" type="checkbox"/> Only selected <input checked="" type="checkbox"/>											
Min.Sig.: <input type="text" value="S0"/> Pause 1 <input type="text" value="+0"/> s <input type="text" value="Log"/> <input type="text" value="Record"/> <input type="text" value="View"/>											

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 contains
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

[Top](#) [Previous](#) [Next](#)

Scansion Log

ScanLog						
Day	Month	Year	Time UTC	Freq./Mem.	Signal	Audio File
22	07	2014	15:16:00	145.018.000	S 0	20140722_151600_145018000_S 0.wav
22	07	2014	15:16:11	145.090.000	S 9+20	20140722_151611_145090000_S 9+20.wav
22	07	2014	15:16:23	145.477.000	S 3	20140722_151623_145477000_S 3.wav
22	07	2014	15:16:34	145.477.000	S 3	20140722_151634_145477000_S 3.wav
22	07	2014	15:16:45	145.684.000	S 8	20140722_151645_145684000_S 8.wav

Activate

Play

Delete

Synchronize Wav

Close

Play All

Delete All

Print

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)

[Activate]	Active the selected frequency
[Play]	Reproduce the recording of the selected line.
[Delete]	Delete the selected line and the relative audio file
[Synchronize Wav]	Delete or add lines based on the audio file present in the log folder
[Close]	Close this window
[Play All]	Reproduce all the recordings in sequence
[Delete All]	Delete all the lines and all the audio file
[Print]	Print the grid.

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](#)

Descri...	Start Fr.	End Fr.	Mode	Filter	Step
VHF	144.000.000	147.000.000	FM	2	12.5 KHZ

Description : VHF

Start frequency : 144.000.000 Hz Mode FM Step 12.5 KHZ

End frequency : 147.000.000 Hz Filter 2

Select Abort Save Delete New

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](#)

Frequency to ignore

Frequency 0 Hz

Frequency 0 Hz

Frequency 0 Hz

Frequency 0 Hz

Frequency 0 Hz

OK

Frequencies in this table will be excluded from scanning.

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Skeds

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Skeds

Skeds

[Top](#) [Previous](#) [Next](#)

Split | Mem | Scan | Skeds | Bands | Auto CQ | Voice | Plug-In | On-Air | Set Mode | Utility | Info

List Skeds

Delete New Save Delete skeds Create recur sked

☐ Delete old skeds on startup

Descr. Time and Date UTC 15:10 18/06/2019

VFO A 0 LSB Filter 1 VFO Active VFO A

VFO B 0 LSB Filter 1 Split

Record No Reco for minutes no limits Power C

Allows to program the activation of frequencies and modes in dates and pre-arranged schedules. Thirty seconds before the 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-off

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

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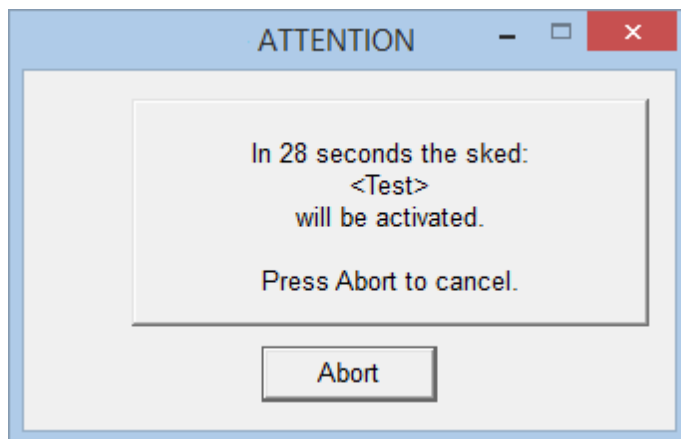
Activation sked

Skeds

[Top](#) [Previous](#) [Next](#)

Activation sked

[Top](#) [Previous](#) [Next](#)



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

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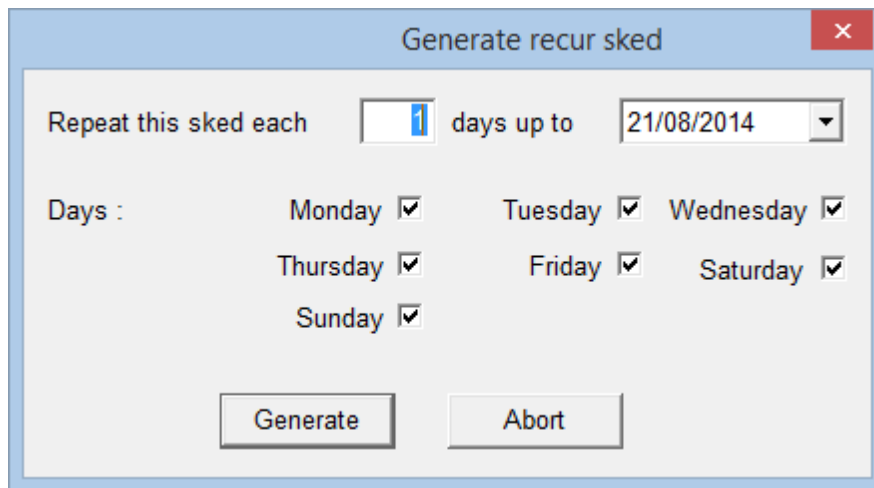
Generate recur skeds

Skeds

[Top](#) [Previous](#) [Next](#)

Generate recur skeds

[Top](#) [Previous](#) [Next](#)



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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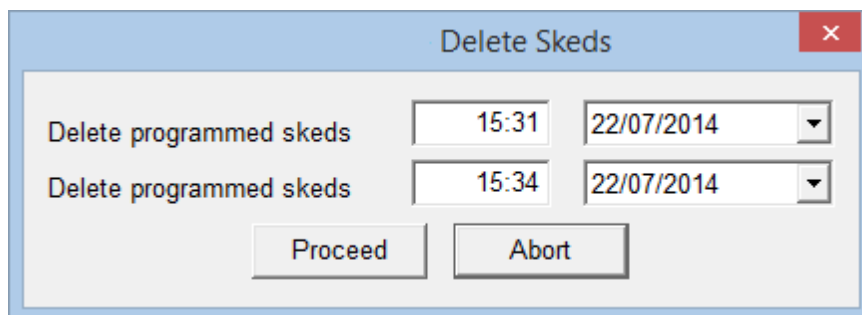
Delete skeds

Skeds

[Top](#) [Previous](#) [Next](#)

Delete skeds

[Top](#) [Previous](#) [Next](#)



Delete all skeds programmed among the specified dates.

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

[Delete programmed skeds to] Time and Date up to which to cancel, is proposed time and date actual

Time and date UTC.

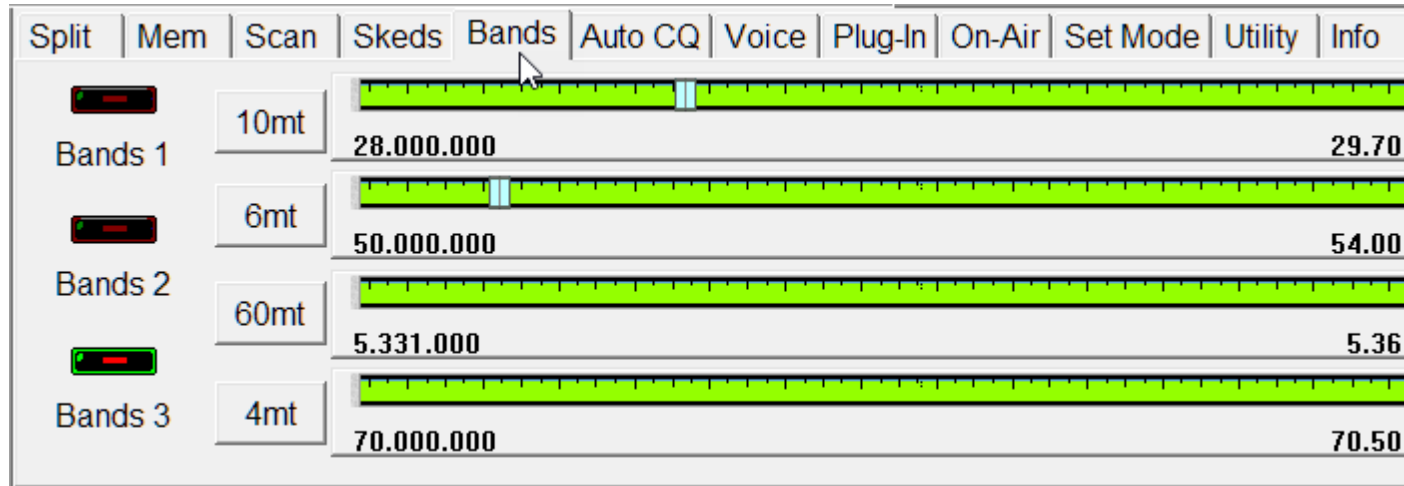
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Bands

Functions

[Top](#) [Previous](#) [Next](#)

Bands

[Top P](#)


Radioamateurs bands in 3 groups on 4 tuning scales.

- [Bands 1] First group: 160mt - 80mt - 40mt and 30mt
- [Bands 2] Second group: 20mt - 17mt - 15mt and 12mt
- [Bands 3] Third group: 10mt - 6mt - 60mt 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](#)

Enable opening message <input checked="" type="checkbox"/> Clock 09/06/2019 16:59 UTC Offset + 02:00 H Synchronize with the PC clock	RTTY Mark 2125 Hz Shift 170 Hz Polarity Normal	Screen Saver 15 min. CW Setting Setting Modulation input DATA ON USB Modulation input DATA OFF MIC
--	---	--

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 manage 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](#)

CW Setting

Pitch Hz

Speed WPM

▼

SSB/CW Synchronous tuning ☐

Level

Level Limit ☒

Keyer repeat time S.

Keyer ratio

Paddle polarity ▼

Keyer type ▼

Rise time ms ▼

Enable MIC up/down keyer (only for HM-103) ☐

Valid character: form 0 to 9 from A to Z space / ? , .
 ^ (send BT). * (Inserts contact number - can be used for 1 channel only)

Keyer Mem. 1	<input type="text" value="CQ TEST CQ TEST DE ICOM ICOM TEST"/>
Keyer Mem. 2	<input type="text" value="UR 5NN* BK"/>
Keyer Mem. 3	<input type="text" value="CFM TU"/>
Keyer Mem. 4	<input type="text" value="QRZ?"/>

Close

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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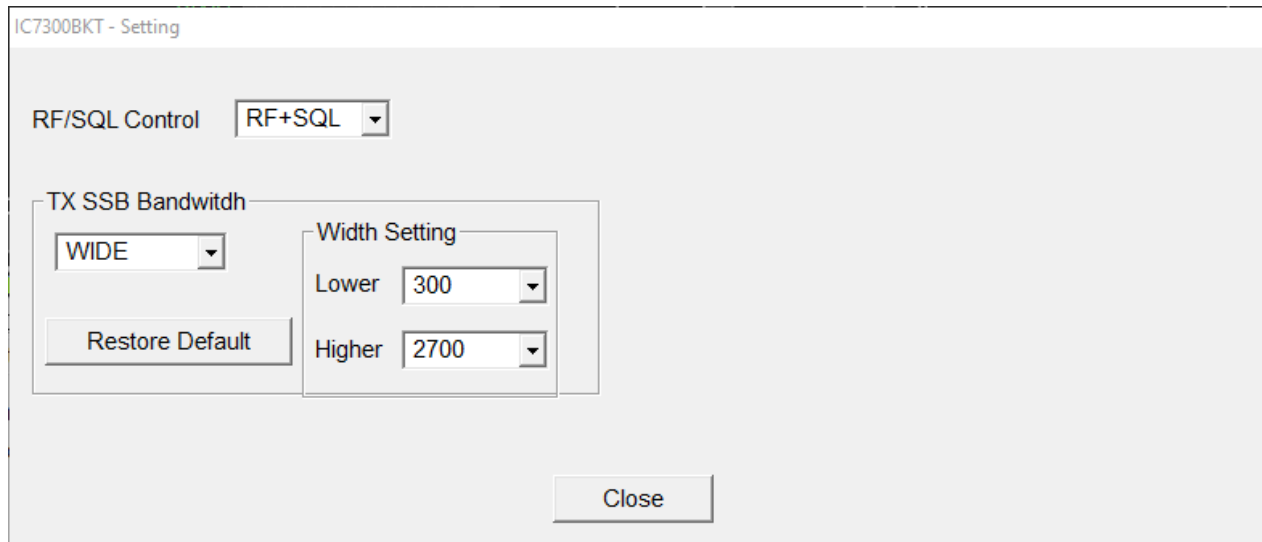
Setting

Set Mode

[Top](#) [Previous](#) [Next](#)

Setting

[Top](#) [Previous](#) [Next](#)



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

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

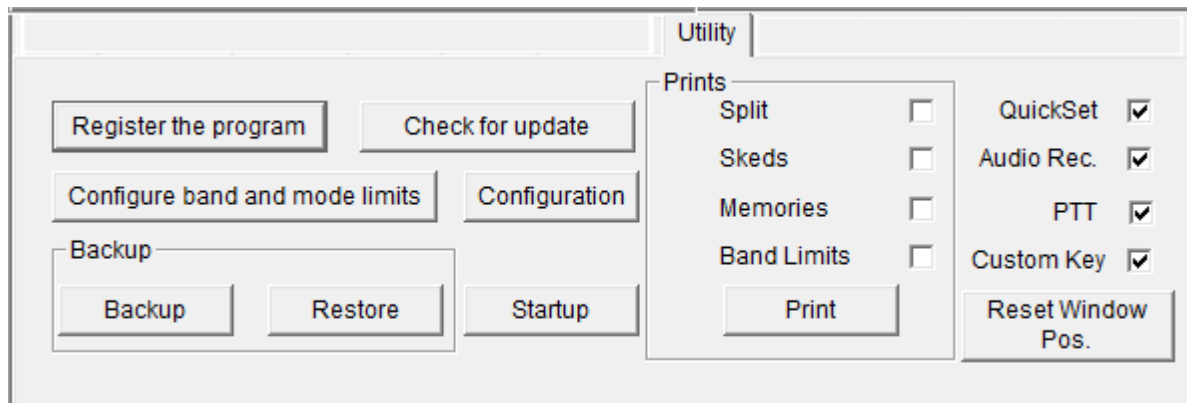
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Utility

Functions

[Top](#) [Previous](#) [Next](#)

Utility



[Register the program] [program registration](#)

[Check for update] Control if new version of the program is available (require active Internet connection)

[Configure band and mode limits] Management of

[Configuration] [Configuration of the program](#) IC7100BKT

[Startup] [Select the programs](#) 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

Auto CQ

Record	CQ CQ CQ DE IZ2BKT PSE K	Tx	Loop	CW	Pause	5	s
Record	IZ2BKT	Tx	Loop	Audio	Pause	10	s
Record	Italy Zulu 2 Bravo Kilo Tango	Tx	Loop	Audio	Pause	15	s
Record	IZ2BKT 5NN PSE K	Tx	Loop	CW	Pause	20	s

Switch USB input while transmitting ☒

Enable CW Semi BK-IN ☒

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 stop.
- [CW/Audio] Select the transmission mode: CW sends the text to CW, Audio: transmits the recorded phrase.
- [Pause] The pause in seconds between a transmission and the next.
- [Switch USB input while transmitting] When it starts transmitting enables USB input, at the end, rehabilitates the previous
- [Enable CW Semi BK-IN] When it begins broadcasting in CW setting Semi BK-IN mode, after resetting the previous mode

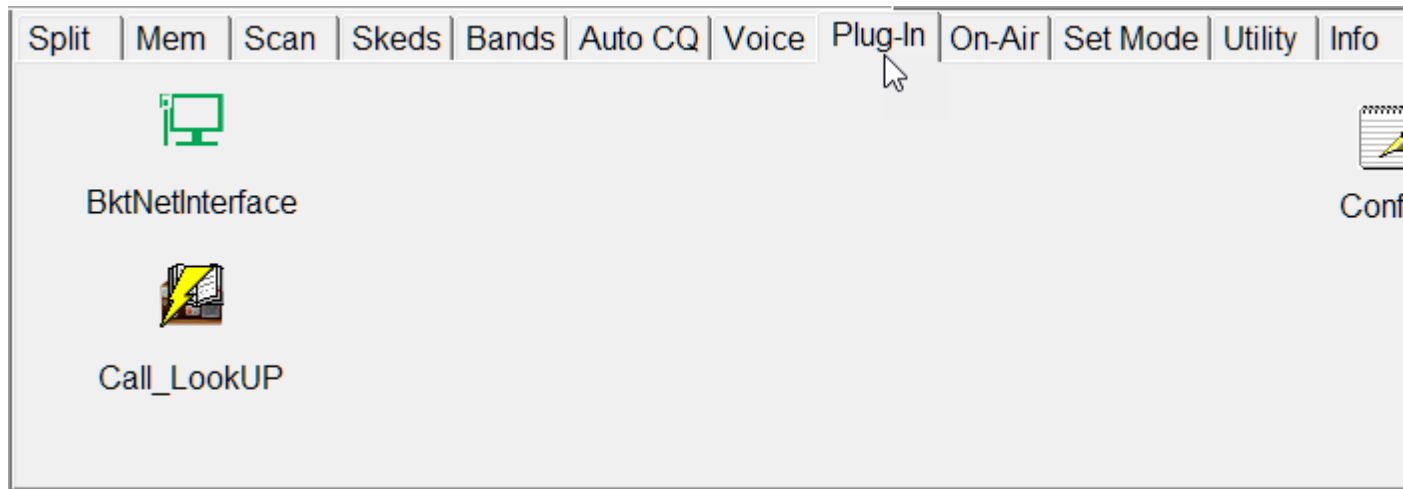
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Plug-in

Plug-in [Top](#) [Previous](#) [Next](#)

Plug-in

[Top](#) [Previous](#) [Next](#)



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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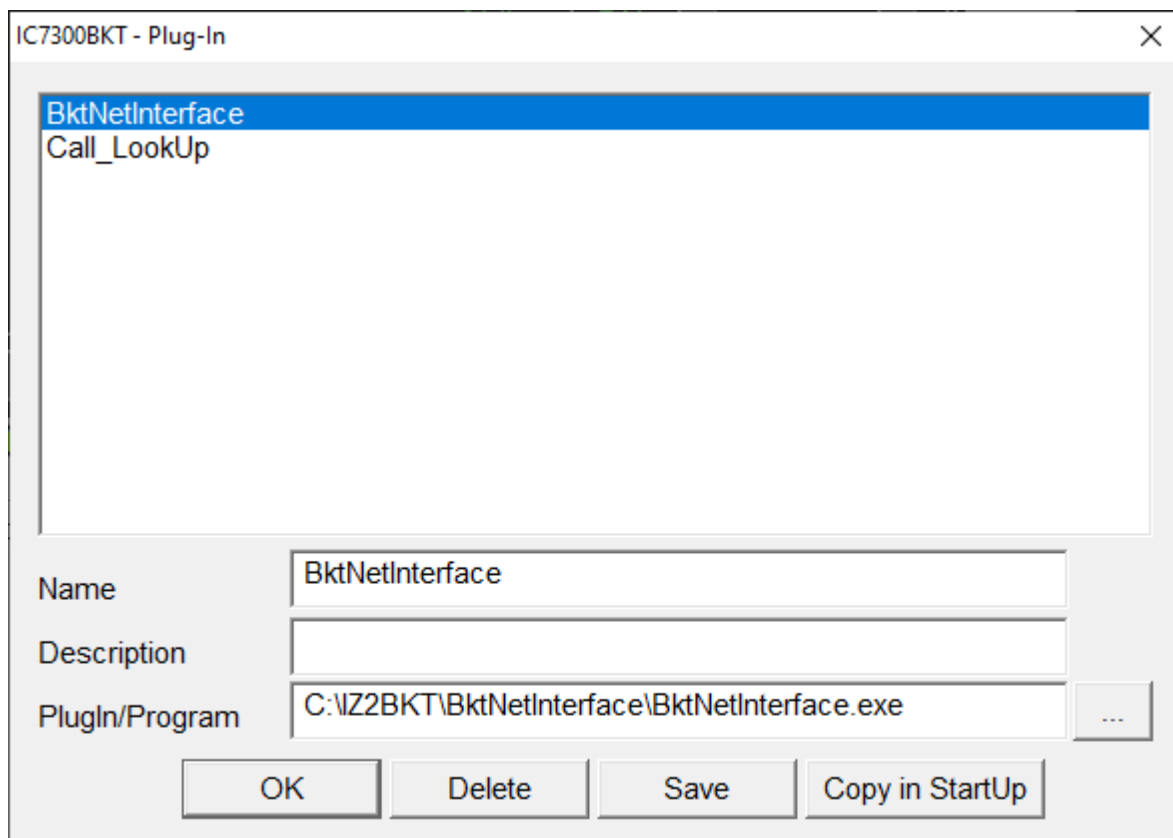
Plug-In Management

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

[Top](#) [Previous](#) [Next](#)

On Air

[Primo](#) [Precedente](#) [Prossimo](#)

The screenshot shows a web-based configuration interface for 'OnAir'. It contains two main sections: 'HrdLog' and 'EnzoLog'.
 In the 'HrdLog' section:
 - 'Enable OnAir' is a checkbox that is currently unchecked.
 - 'Callsign' is a text field containing 'IZ2BKT'.
 - 'Radio' is a text field that is empty.
 - 'Refresh' is a dropdown menu set to '30' with a unit 's'.
 - 'Enable Cat' is a checked checkbox.
 - 'Code' is a text field containing '*****'.
 - 'Mode' is a text field that is empty.
 - There is a blue link labeled 'DX Cluster'.
 - A 'Send Now' button is present.
 In the 'EnzoLog' section:
 - 'Enable' is a checkbox that is currently unchecked.
 - 'Callsign' is a text field containing 'IZ2BKT'.
 - 'Radio' is a text field that is empty.
 - 'Refresh' is a dropdown menu set to '35' with a unit 's'.
 - 'Password' is a text field containing '*****'.
 - 'Mode' is a text field that is empty.
 - A 'Send Now' button is present.

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

[Enable] Enable / disable the automatic sending of the state

[Callsign] Callsign used in HrdLog or EnzoLog

[Code] Only HrdLog, enter the upload code received at registration on HrdLog

[Password] Only EnzoLog, enter the password to access EnzoLog

[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 and EnzoLog

Voice

Funzioni

[Top](#) [Previous](#) [Next](#)

Voice

[Primo](#) [Precedente](#) [Prossimo](#)

Split	Mem	Scan	Skeds	Bands	Auto CQ	Voice	Plug-In	On-Air	Set Mode	Utility	◀	▶
1	IZ2BKT Inglese	Tx	Loop	5		Tx	Loop	Stop				
2	IZ2BKT Italiano	Tx	Loop	6		Tx	Loop	Interval s.				
3		Tx	Loop	7		Tx	Loop	5				
4		Tx	Loop	8		Tx	Loop	Auto Monitor	<input checked="" type="checkbox"/>			

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

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.

DX de G1HWY:	28689.0	K7QQ	WA	15512
DX de IK7AFM:	28654.8	N422	TN	15512
DX de IZ8BRI:	28690.0	WA4TII		16042

Frequenza selezionata, premere Ctrl+C

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

[Top](#) [Previous](#) [Next](#)

PTT

[Top](#) [Previous](#) [Next](#)



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](#)

[Tune] Selects operating mode and power specifies in [configuration](#) and switch in transmission for the seconds configure

[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 program

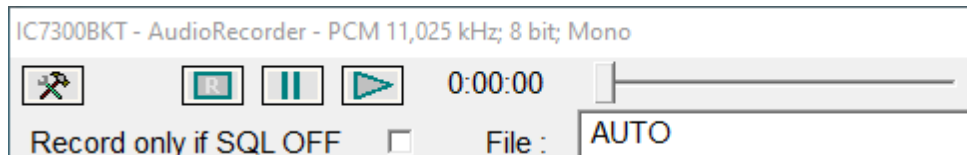
[Total] Time of transmission from the last time [Reset]

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 signal (SQL OFF) and suspended when the signal interrupts (SQL ON).

[File] It is possible to specify a file audio, if he leaves AUTO, to the beginning of every recording, will be produced a file by the name BKTymmddhhmmss.WAV, where yy=year, mm=month, dd=day, hh=hour, mm=minute, ss=second of beginning recording. Leaving AUTO and starting the play is opened a window from which to select the file to reproduce.

QuickSet

Functions

[Top](#) [Previous](#) [Next](#)

QuickSet

[Top](#) [Previous](#) [Next](#)

QUICKSET

Store	
1 SSB 3.5MHz	11 FT8 3.5MHz
2 SSB 7MHz	12 FT8 7MHz
3 SSB 14MHz	13 FT8 10MHz
4 SSB 18MHz	14 FT8 14MHz
5 SSB 21MHz	15 FT8 18MHz
6 SSB 24MHz	16 FT8 21MHz
7 SSB 28MHz	17 FT8 24MHz
8 SSB 50MHz	18 FT8 28MHz
9 SSB 144MHz	19 FT8 50MHz
10 SSB 430MHz	20 FT8 5MHz

Quick Set Store

Select Button Number :

Description

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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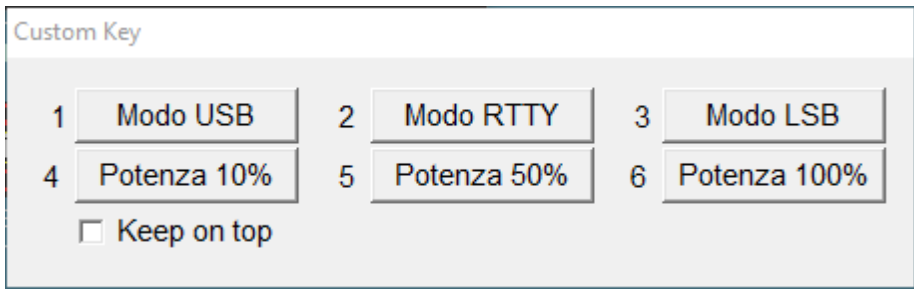
Custom Key

Function

[Top](#) [Previous](#) [Next](#)

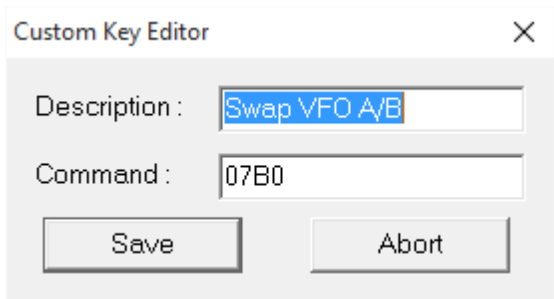
Custom Key

[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](#)

Select Tone ×

67.0	79.7	94.8	110.9	131.8	156.7	171.3	186.2	203.5	229.1
69.3	82.5	97.4	114.8	136.5	159.8	173.8	189.9	206.5	233.6
71.9	85.4	100.0	118.8	141.3	162.2	177.3	192.8	210.7	241.8
74.4	88.5	103.5	123.0	146.2	165.5	179.9	196.6	218.1	250.3
77.0	91.5	107.2	127.3	151.4	167.9	183.5	199.5	225.7	254.1

Click on the code of wished Sub-Tone.

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Chosen VFO

Various

[Top](#) [Previous](#) [Next](#)

Chosen VFO

[Top](#) [Previous](#) [Next](#)

Choose the VFO in Use

VFO A

VFO B

Select the VFO currently in reception.

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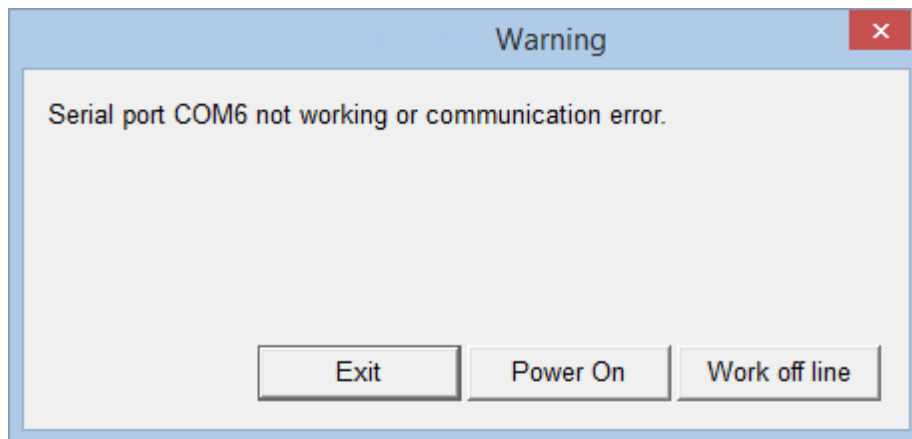
OFF-LINE Mode

Various

[Top](#) [Previous](#) [Next](#)

OFF-LINE Mode

[Top](#) [Previous](#) [Next](#)

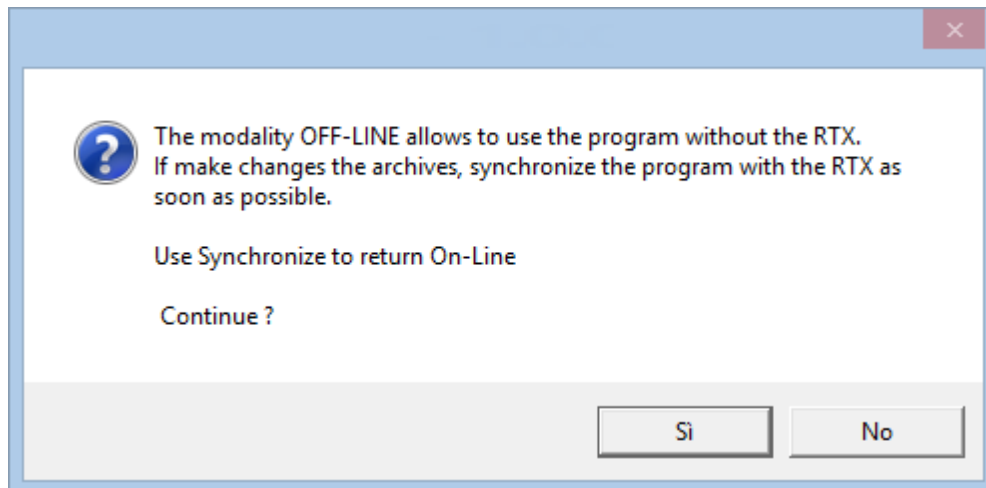


No communication with the radio.

[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 be reflected in the RTX until the next [Synchronization](#)



For return ON-LINE use the Synchronize key in [main window](#).

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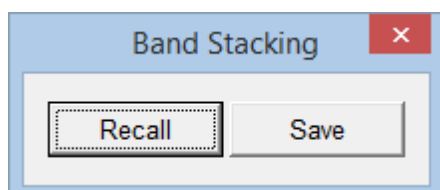
Band Stacking

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.

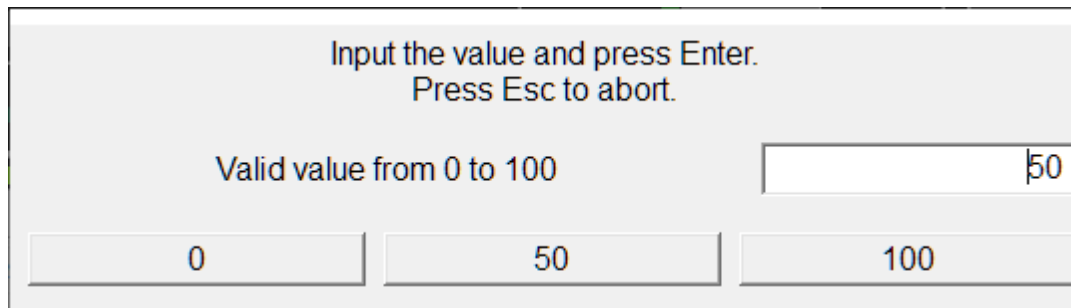
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Numerical Input

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 .

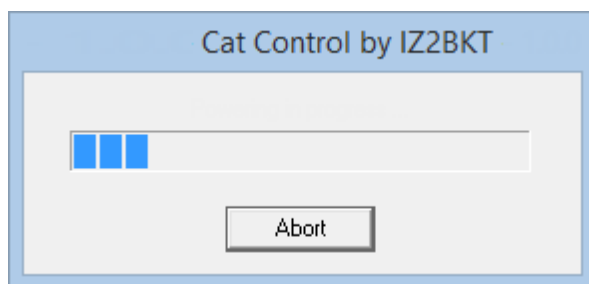
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Progress Indicator

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

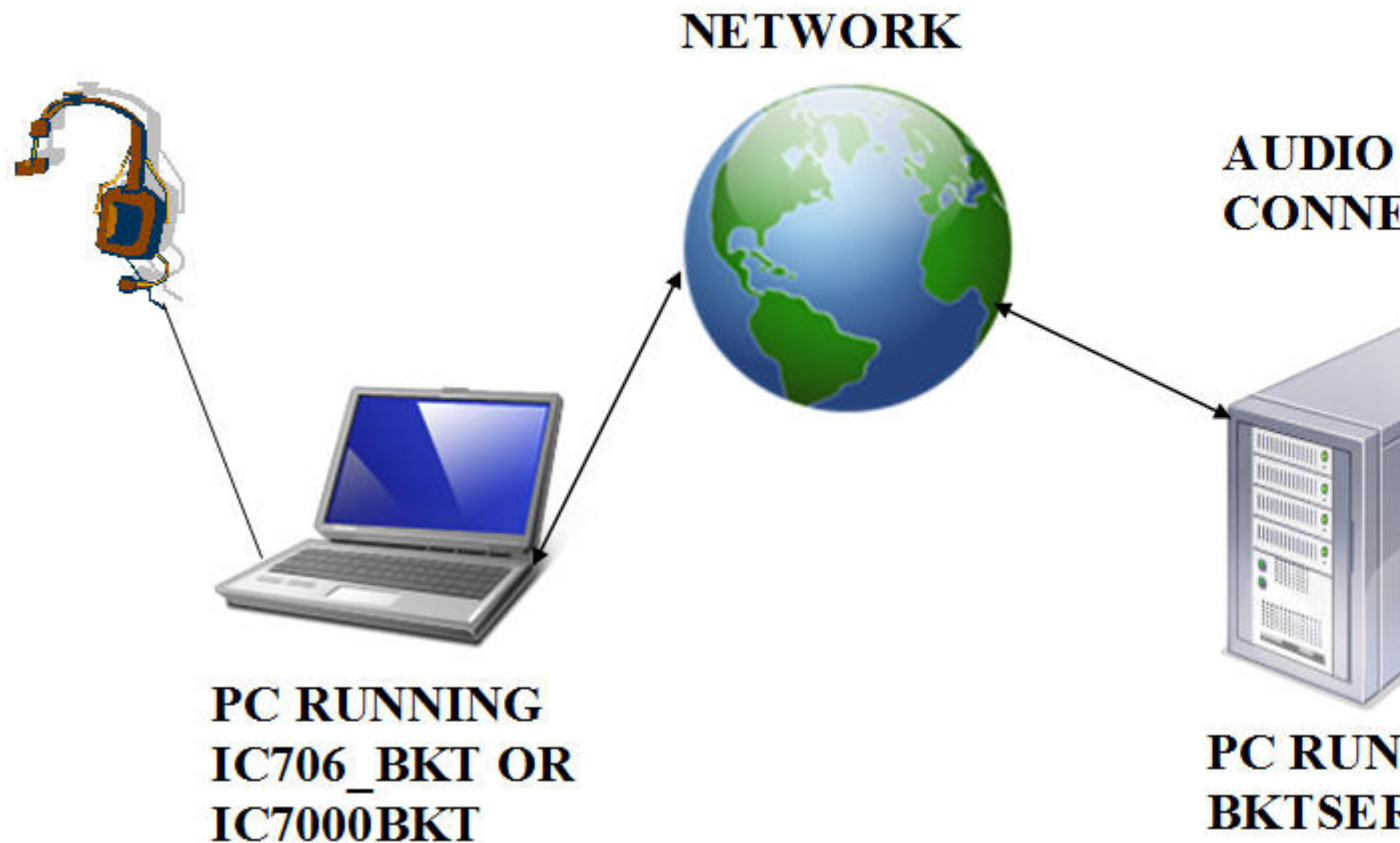
Remote management by TCP/IP

[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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BKTCClient

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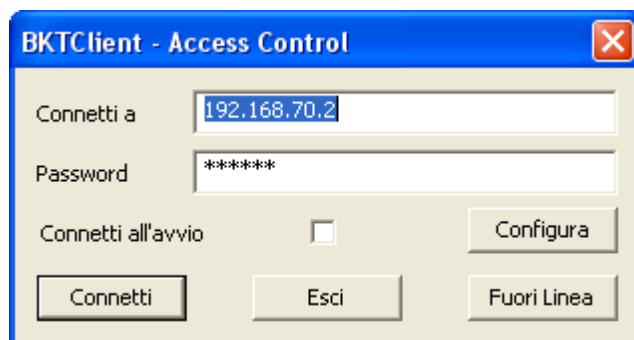
Access Control

BKTCClient

[Top](#) [Previous](#) [Next](#)

Access Control

[Top](#) [Previous](#) [Next](#)



BKTCClient 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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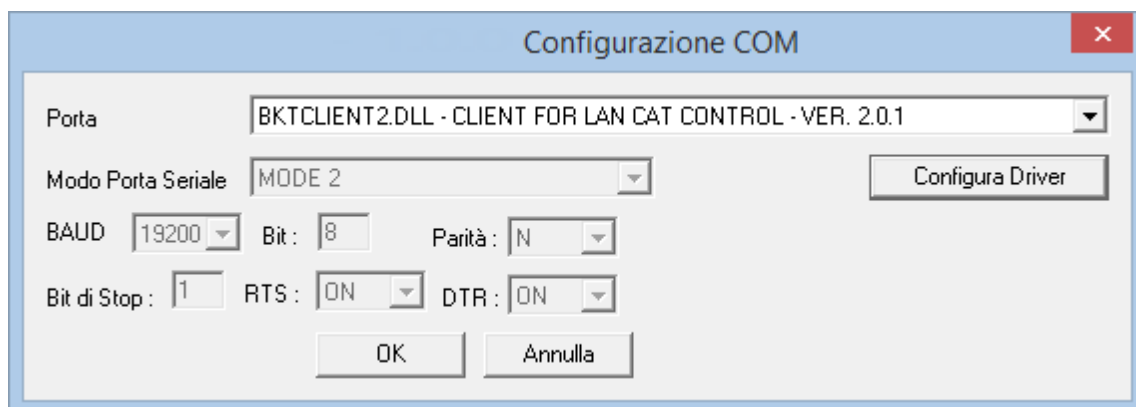
BKTClient

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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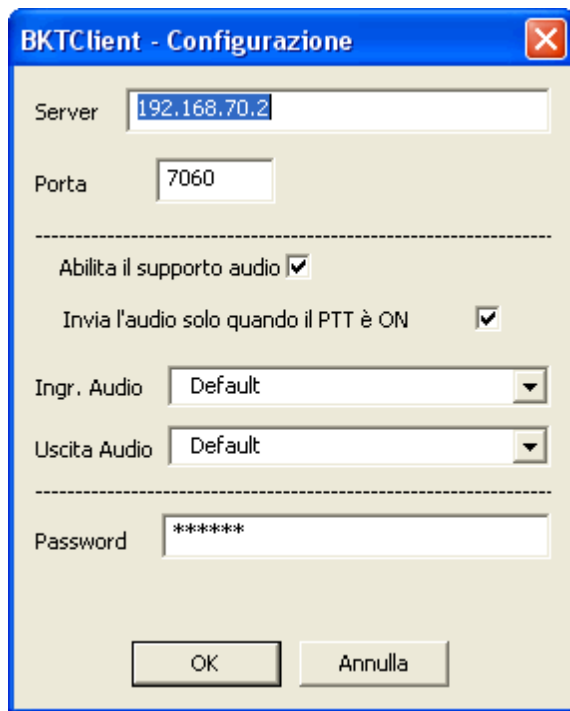
Configuration

BKTClient

[Top](#) [Previous](#) [Next](#)

Configuration

[Top](#) [Previous](#) [Next](#)



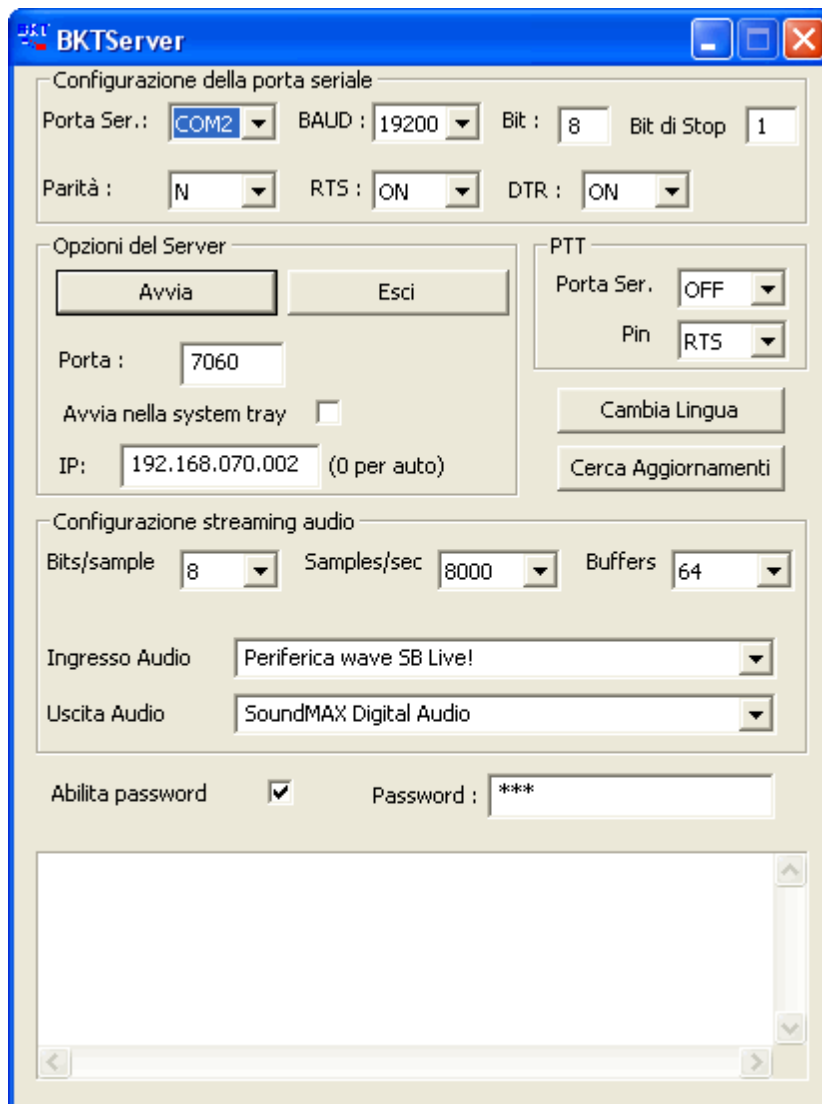
[Server]	IP address of the PC server with in execution BKTServer
[Port Com.]	LAN port of communication
[Local IP]	If you have multiple LAN cards you can specify the local IP address.
[Enable Audio Support]	Enables the receipt/ transmission of the audio. For a correct working the server pc must have the 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 available. Need a internet connection.

[Audio Stream Configuration]

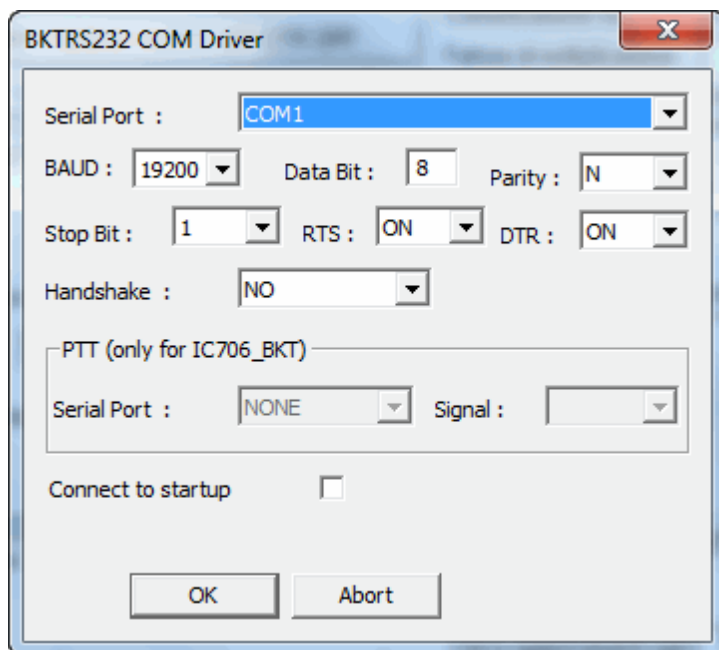
Specify the parameters audio, increasing the values of Bits/sample and Samples/sec it will increase the fidelity of the audio but it needs greater band. Increase the Buffers if loss audio packets.

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](#)

IC7100BKT 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 IC7100BKT is executed BEFORE any other program.

IC7300BKT is supported by [BBLogger](#) by installing [Bkt2Log](#)

Use [BktNetInterface](#) to interface with JTDX, WSJT-X, JS8CALL, etc ...

