

IC7000BKT Icom IC-7000 CAT Control

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Information on IC7000BKT

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What it is

IC7000BKT

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What it is

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ATTENTION: this guide has been translated by an automatic system, excuse

The screenshot displays the 'IC7000BKT - Cat Control by IZ2BKT' software interface. The main window features a central frequency display showing 144.414.000 MHz. Above the display are several '+' and '-' buttons for frequency adjustment. To the left of the display are sliders for AF, SQL, PO, and RF, along with buttons for Mini, Store, Sync, and Polling. To the right, there are filter settings including Filter:2, SOFT, and Default, with sub-sliders for BW (2.4 KHz), I.S., O.S., and T.PBT. Below the frequency display is a band stacking section with buttons for 1, 2, and 3 bands. The interface also includes a menu bar with options like Split, Memories, Scanner, Skeds, Bands, Set Mode, Utility, Auto CQ, Plug-In, On-Air, and Info. A status bar at the bottom shows local and UTC times, radio station information (IZ2BKT, Operator: Mauro), and an audio recorder window with playback controls and a file name of 'AUTO'.

The IC7000BKT CAT program controls the ICOM IC-7000 transceiver using a personal computer running Microsoft Windows 2000, XP, Vista, Windows 7 32 and 64 bit. It uses the CI-V socket (on the IC-7000 rear panel) and requires a small interface to the PC serial or USB port.

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 Red/Green 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

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The connection between the PC port and CI-V connection of IC7000 requires a level conversion interface. You can either purchase the Icom accessory, or a third party converter, or build your own as in Fig.1 or Fig. 2.

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

The program was also tested with various USB and serial interfaces and with the [West Mountain Radio RIGtalk](#).

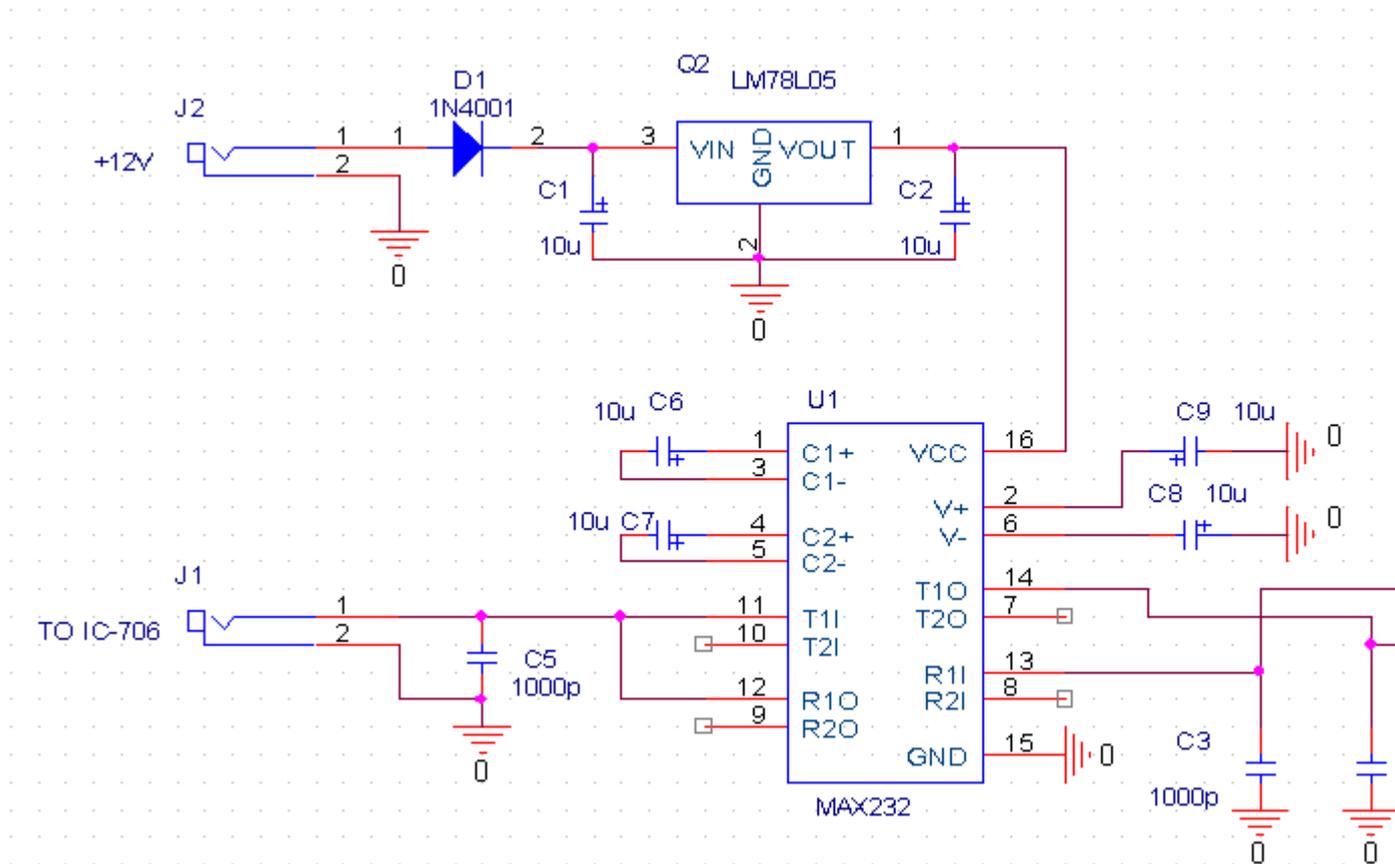


Fig. 1

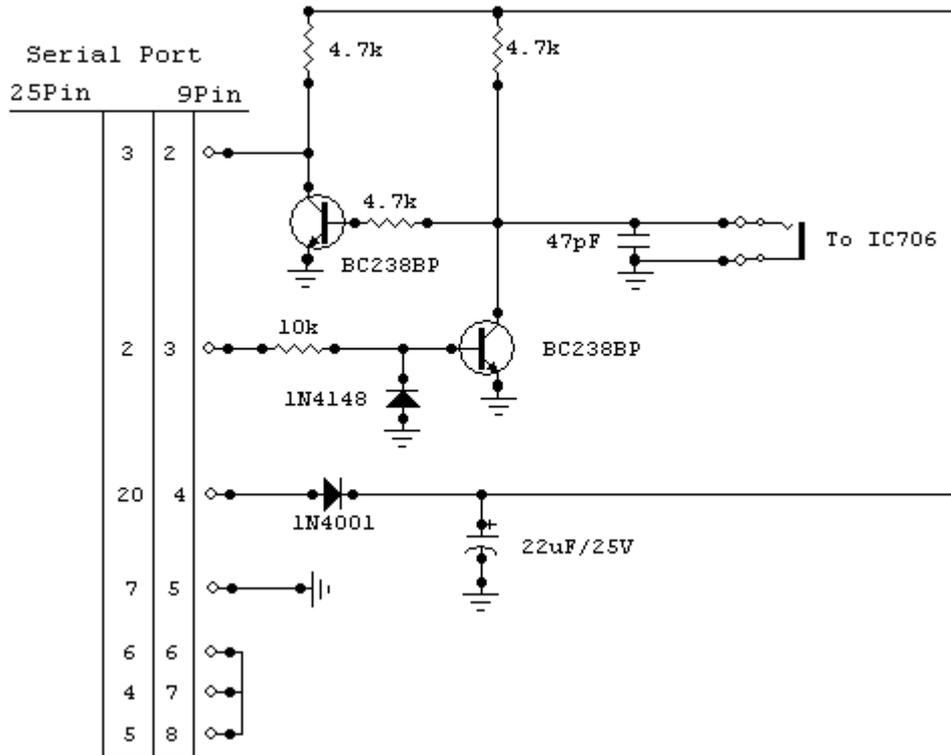


Fig. 2

Interfacing with the audio card of the PC

In order to use the functions audio of the program it must connect the RTX with the audio card of the PC. For who it poss other digital ways managed them with the SoundBlaster can use it also for the functions audio of this program, otherwise audio escape of the SoundBlaster with the PIN11 of connector ACC and the entrance microacoustics of the SoundBlaste

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Changelog

Versions

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Ver. 1.0.0 08/27/2006
First official Release.

Ver. 1.0.1 09/05/2006
Adding [BKTClietRemote management by TCP/IP](#)

Ver. 1.0.2 09/10/2006
Adding the frequency display font size configuration.
Adding RTTY section in [Set Mode](#).

Vers. 1.0.3 09/14/2006
Adding BKTExtension7k.dll ver. 1.10.0.
Adding CW section in .

Vers. 1.0.4 09/24/2006
Adding support for wheel mouse to change the frequency.

Removed minor bugs.

Vers. 1.0.5 10/07/2006

Removed bug of the RF control.

Adding control RF/SQL in the manual synchronization.

Adding in the [PTT](#) window the key for transmission of the 1750Hz.

Vers. 1.0.6 10/20/2006

Adding [control for automatic antenna tuner](#).

Improved the graphics of the [main window](#).

Improved the precision of the SWR control.

Vers. 1.0.7 10/31/2006

Removed bug for [day and month setting](#).

[Auto poweroff setting](#).

[start-up programs](#).

Vers. 1.0.8

Improved [start-up programs](#).

[COM20](#).

Improved [scanner](#).

Adding [configuration](#) for scanner timing control.

Vers. 1.0.9 01/01/2007

Improved the AGC control.

Adding the control for the time constant of AGC.

Vers. 1.0.10 03/04/2007

Removed bug on slider background.

Vers. 1.0.11 03/09/2007

Removed bug on key and slider colors.

Vers. 1.0.12 03/10/2007

Separated the controls SQL and RF.

Vers. 1.0.13 04/20/2007

Removed bug in setting Mode and Filter to the start of a scanning between frequencies.

Correct ToolTip of the pause 1 in the scanner.

Vers. 1.0.14 06/05/2007

Improved the audio recording during the scanning.

Adding the function for the [message management the opening message screen indication capability of RTX](#).

Adding the function to [synchronize the clock of RTX with that of PC to the program startup](#).

Vers. 1.0.15 07/01/2007

Build help file compatible with Windows Vista.

Vers. 1.0.16 07/10/2007

Adding the Twin PBT control.

Adding the manual input for Pass Band Width, In Shift, Out Shift, Twain PBT and AGC.

Improved [numerical input](#).

Vers. 1.0.17 07/15/2007

Adding "General band".

Vers. 1.0.18 07/24/2007

Removed minor bug on Windows Vista.

Vers. 1.0.19 07/26/2007
Operating system control.

Vers. 1.0.20 07/29/2007
Improved [numerical input](#).

Vers. 1.0.21 07/31/2007
Improved communication command from and to RTX.
Adding read the [min and max frequency](#) from the radio.
[PTT Section](#).

Vers. 1.0.22 08/18/2007
The Restore function is available also in Free Version.
Improved communication engine.
Improved the Memory Mode.

Vers. 1.1.0 09/07/2007
Improved sort of the Frequency and Tone columns in the [memories grid](#).
Automatic calculation of the timeout based on speed of exchange data between program and RTX.
Improved communication engine.
Adding [import and export of the memories](#) in CSV format.
Adds the cancellation of the memories in the [synchronization](#).

Vers. 1.1.1
Improved automatic calculation of the timeout time.
Automatic calculation of the SMeter refresh time.

Vers. 1.2.0 02/11/2007
Adds parameters for import/export of the memories in file CSV.
Possibility to choose the device for audio input and output.
Adds automatic check of updating.

Vers. 1.2.1 03/11/2007
Removed bug in name of key in AutoCQ function.
Removed bug in import memory from CSV file.

Vers. 1.2.2 04/11/2007
Removed bug in synchronization for setting Select in the RTX memory.
Control of the last character of every line of the file CSV to be import.

17/11/2007
Adds controls on Tone and DtcS in the memory importation from a CSV file.

Vers. 1.2.4 02/03/2008
The Store is enabled only if not in [Memory Mode](#).
To the start-up if doesn't exist the scanner Log file it deletes possible files WAV of the scanning.
[UTC Offset](#) is manual.
Improved the cancellation of the elements in the [ScanLog](#).

Vers. 1.2.5 13/03/2008
Correct a problem in load key.

Vers. 1.2.6 16/03/2008
Improved the compatibility with Windows Vista.

Vers. 1.2.7 05/06/2008
Improved the synchronization of the memories.
Support for [BKTClient](#) version 1.5.

Vers. 1.2.8 21/06/2008

Vers. 1.3.0 16/07/2008
Added the function CW Setting Mode in SET.

Vers. 1.3.1 17/08/2008
Improved communication with the external drivers.
Improved management of serial port.
Changed the installation folder.

Vers. 1.3.2 01/09/2008
Improved configuration of external drivers.
Improved control of new versions.

Vers. 1.3.3 05/10/2008
Added support up to COM40.

Vers. 1.3.4 18/10/2008
Added setup in the ability to set the value of latency manually.
Improved the automatic calculation of latency when using BKTClient.
Improved appearance when working in OFF-LINE.
Included BKTClient 1.5.1.

Vers. 1.3.5 08/11/2008
Corrected management of the NB Level.

Vers. 1.3.6 12/11/2008
Fixed bug in the selection of file to play with AudioRecorder.
Improved compatibility of AudioRecorder with BKTRS232.

Vers. 1.4.0 12/03/2009

Added function Reverse.
Activating the DUP is calculated the frequency of transmission.
The frequency of transmission of memories that use the DUP is calculated automatically.

Vers. 1.4.1 02/05/2009
Improved the choice of serial port in the program configuration.

Vers. 1.5.0 23/05/2009
Add the scan preset function.
Added parameter 0 = Automatic in the setup time management scanner.
Improved the calculation of pauses during the scan.

Vers. 1.5.1 27/05/2009
If flag "always on top" is off the masks of PTT and Audio Recorder will be minimized and restored with the main program window.

Vers. 1.6.0 22/07/2009
Add the function to [import the memories](#) from the ARRL TravelPlus program.

Vers. 1.6.1 25/07/2009
Improved ToolTips.

Vers. 1.6.2 06/08/2009
Adapted to the new website www.iz2bkt.com

Vers. 1.6.3 11/08/2009

Improved management of the timer.
Added the total time counter of use of the program.

Vers. 1.6.4 15/08/2009

Fixed a bug to work with the BKTRS232 driver.

Vers. 1.6.5 21/08/2009

Tones imported by the ARRL TravelPlus are set as RX and TX.
The import of memories from the ARRL TravelPlus programme is now made looking for the field name and not the position.

Vers. 1.6.6 27/08/2009

Correct the filter setting during the scan between memories.

Vers. 1.7.0

Added edit and insert the memory directly from the grid.
Improved clock synchronization with PC.

Vers. 1.8.0 29/11/2009

Added the [QuickSet](#): 10 keys for quick selection with stored frequency, mode, VFO in use, attenuator, preamplifier, SQL, power, RF, filter, NR, NB and ANF.
Added in the TAB Utility the possibility to show/hide the PTT, Audio Recorder and the QuickSet.

Vers. 1.8.1 08/12/2009

Update frequency when moving from TX to the RX.

Vers. 1.8.2 13/12/2009

Added the compressor mic state in the keys Quick-Set.

Vers. 1.8.3 11/01/2010

Improved Backup/Restore.

Vers. 1.8.4 02/02/2010

Removed a bug on the display of the PTT, AudioRecorder and QuickSet.

Vers. 1.8.5 07/02/2010

Corrected positioning

Vers. 1.8.6 06/03/2010

Capacities the QuickSet keys from 10 to 20.

Vers. 1.8.7 11/04/2010

Added control the rights assigned to the installation folder.

Vers. 1.9.0 04/06/2010

Improved the Split function.
Stores the path of the last backup.
Added support DDEServer compatible with DX Commander.
Improved search updates.
Improved function Tune.

Vers. 1.9.5 03/07/2010

Improved AutoCQ.
Adding the selection of the mode of communication with the serial port: mode 1 and mode 2.

Vers. 1.9.6 26/07/2010

Fixed a minor bug in using external drivers.

At startup the CI-V Transceive parameter of the SET mode is put to ON.

Vers. 1.9.7 18/08/2010

Fixed a bug about restoring the default in configuring limits bandwidth and mode.
BKTEExtension7k .dll ver 1.10.1: Correct the version returned by ExtGetVersionDLL ().

Vers. 1.9.8 23/09/2010

Added control DTCS and Tone while entering or importing a memory.

Vers. 1.10.0 10/10/2010

In the Memory window added the following functions:
Delete Block: erase a block of memory
Remap: remaps memories second sorting chosen
Save To File: saves the current memory bank in a file
Load From File: load current bank memory from a file

Vers. 1.10.1 26/10/2010

Fixed some bugs in memory management.

Vers. 1.11.0 21/11/2010

Added the Restore Default button in the program configuration.
Added font selection for the main and secondary windows.

Vers. 1.12.0 23/01/2011

Added control on writing rights of the configuration file.
Compiled for compatibility with Windows 2000.

Vers. 1.13.0 26/02/2011

Added other settings in [Set Mode](#)

Vers. 1.14.0 24/03/2011

Added the Polling mode.
Corrected minor problems (rescue position windows, size fields, correction window closure request registration).
Fixed a bug that resets the file memories when run certain plug-in on startup.
Improved calculation of connection speed
Improved the program startup.

Vers. 1.14.1 29/03/2011

Improved the management of commands with slider (volume, power, etc.) and the frequency with the mouse wheel.
Improved the sending of frequency and mode to programs that are linked via BKTEExtension or via DDE.

Vers. 1.15.0 23/04/2011

Finished the support for Windows 2000.

In the configuration COM is also possible to choose the COM not connected to any device.

Improved the saving and restoring the windows position.

Added registration and Auto Power Off in Skeds.

Vers. 1.15.1 13/08/2011

Removed bug on displaying PTT, AudioRecorder and QuickSet.

Vers. 1.16.0 30/12/2011

Added the function keys F2 through F9 plus the shift key to change the frequency.

Vers. 1.16.1 21/09/2012

Added control on frequency set by external programs.

Vers. 1.17.0 06/10/2012

Added driver BktDummy for operation in dummy mode.

Vers. 1.18.0 11/11/2012

Changed the management of external drivers for compatibility with Windows 8.

Vers. 1.18.1 24/11/2012

Updated BktClient 1.5.4:

- If you have multiple LAN cards you can specify the local IP address.

- Fixed bug translation.

Updated BktRS232 1.0.5:

- Fixed bug translation.

Vers. 1.19.0 23/12/2012

Add BKTClient2.

Vers. 1.19.1 30/12/2012

Correct display transmitting frequency selecting memory with DUP directly from tab Memories.

Vers. 1.19.2 10/02/2013

Improved serial communication.

Vers. 1.20.0 03/03/2013

Added interface minimized.

Includes BKTEExtension 1.12.0.

Improved color management.

Added reset button position windows in Utility.

Autoload registration key if saved in the program folder.

Fixed some minor bugs.

Vers. 1.21.0 01/01/2014

Integrate BktExtension7k ver. 1.13.0 compatible with BktRemote.

Vers. 2.21.1 11/01/2014

Improved management of the registration key.

Fixed a minor bug in the mask of synchronization memories.

Vers. 1.22.0 24/02/2014

Includes BktExtension7k ver. 1.14.0 with management memories selection.

Vers. 1.23.0 21/04/2014

Added the possibility to specify up to 5 frequency to be ignored during the scan.

Partial support for the IC-7100.

Vers. 1.24.0 30/04/2014
Improved management IC-7100.

Vers. 1.25.0 05/05/2014
Improved management IC-7100

Vers. 1.25.1 26/07/2014
Fixed bug on saving memory from VFO.
Fixed minor bugs.
Including BktExtension7k to ver. 1.15.0.

Vers. 1.25.2 13/08/2014
Include BktExtension7k ver. 1.17.0.

Vers. 1.25.3 11/10/2014
Automatic restart after configuration.

Vers. 1.25.4 18/12/2014
Improved copy/cut/paste of memories.

Vers. 1.25.5 28/12/2014
Correct trial version for 2015.

Vers. 1.26.0 26/01/2015
Added support for OnAir status on HrdLog and EnzoLog.
Improved loading of registration keys.
Changed the default font with Arial 9 points.
Improved the installation.

Vers. 1.27.0 09/05/2015
Added CAT support for HrdLog.

Vers. 1.27.1 19/07/2015
Support BKTEExtension 1.18.0

Vers. 1.28.0 01/09/2015
Adding [Custom Key](#)
Support BKTEExtension 1.19.0

Vers. 1.28.1 10/09/2015
Improved [Custom Key](#) window

Vers. 1.28.2 10/10/2015
Support BktExtension 1.20.0

Vers. 1.28.3 03/01/2016
Support BktExtension 1.21.0

Vers. 1.28.4 27/02/2016
View the version in use (Free, Full or Trial)

Vers. 1.28.5 03/04/2016
Correct filter settings when changing band

Vers. 1.28.6 18/08/2016
New version 1.0.1 of OnAir
Correct link to the forum

Vers. 1.29.0 07/10/2017
Support BktExtension 1.22.0 for BktDxCluster Android

Vers. 1.29.1 21/08/2018
Link update

Vers. 1.29.2 02/01/2021
Improved audio device management

Vers. 1.29.3 02/06/2023
Correct key loading for the trial version

Vers. 1.30.0 04/04/2024
Various improvements

Vers. 1.31.0 15/01/2025
Added LAN protocol compatible with DX Commander by DXLabs (Replaces BktNetInterface)
Removed EnzoLog from On-Air as it is no longer active.
Several improvements

Vers. 1.31.1 23/01/2025
Improved LAN protocol

Vers. 1.31.2 29/01/2025
Improved LAN protocol compatibility

Vers. 1.31.3 04/02/2025
Correct command to go to TX from LAN protocol

Vers. 1.31.4 23/02/2025
Improved LAN protocol for multiple commands

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Program registration

Program registration

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All the information on the registration are on: <https://www.maniaradio.it/en/ic7000registrazione.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.IC7000BKT.bkt> key file to the program's installation folder.
Launch the IC7000BKT program.

Method 2:

Save the <call.IC7000BKT.bkt> file attached to the received email (replace "call" with your specified
callsign in the registration form) in a folder.

Launch the IC7000BKT 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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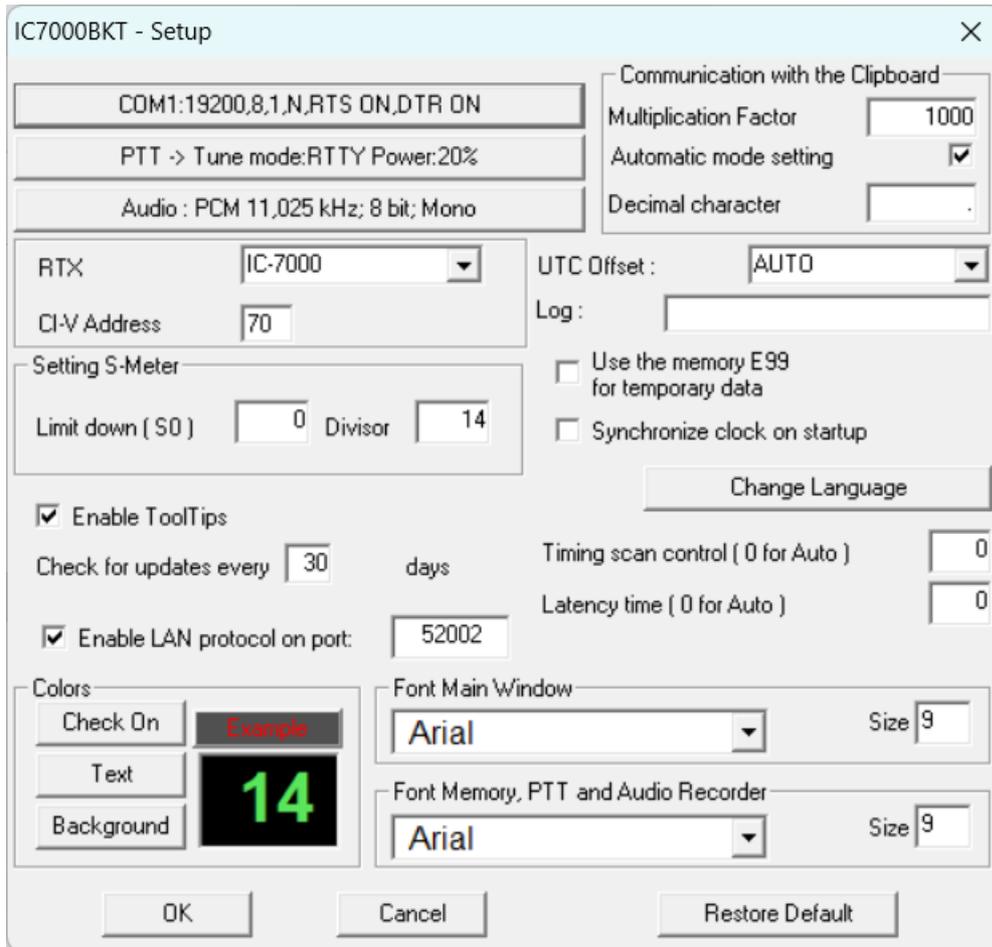
Configuration

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Configuration

Configuration

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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 ADDRESS in the IC7000. You advised 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.](#)
- [RTX] Model RTX used.
- [Address CI-V] Exadecimal address of interface CI-V (default = 70).
- [S-Meter Calibration] Set up the values [Limit down] and [Divisor] to make to correspond the value read by the S-Meter 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 settings of Windows.
- [Log] Generally must be left empty, point out the name of a file in which to save the Log of exchange dates.
- [Use the memory E99 for the temporary data] If select this option the memory <99> of the bench <E> is used to support the control of the state of the DUP and the SPLIT.
- [Synchronize clock on startup] Enabling this option, the RTX clock is synchronized with one PC to the first change of minute 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 causes data loss between the pc and the rtx, a too high time slows down the reading of the data on the rtx.
- [Enable ToolTips] Enable the help balloons
- [Enable LAN protocol on port] Enable the TCP communication protocol on the specified LAN port. This feature includes DCE emulation and replaces the BktNetInterface plug-in
- [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
[Restore Default] Restore the default parameters of the program.

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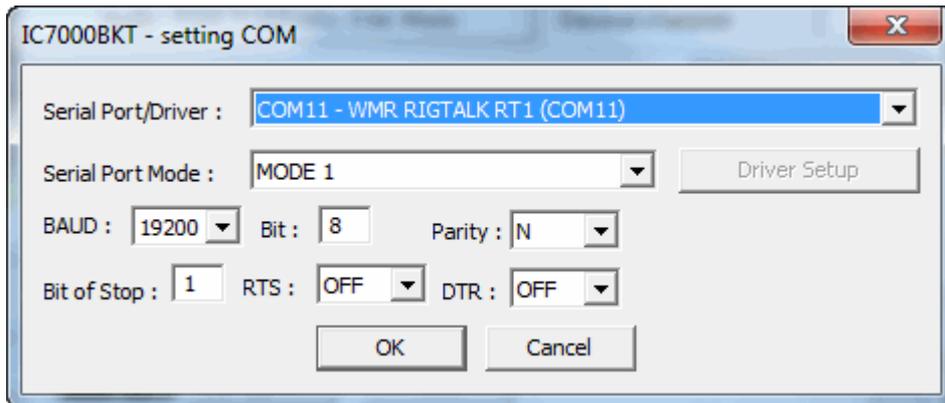
Configuration COM

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Configuration COM

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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.

For a good functioning of the program not select speed lower to 9600 BAUDs.

Its possible to select an external driver (es. [BKTCClient](#) 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

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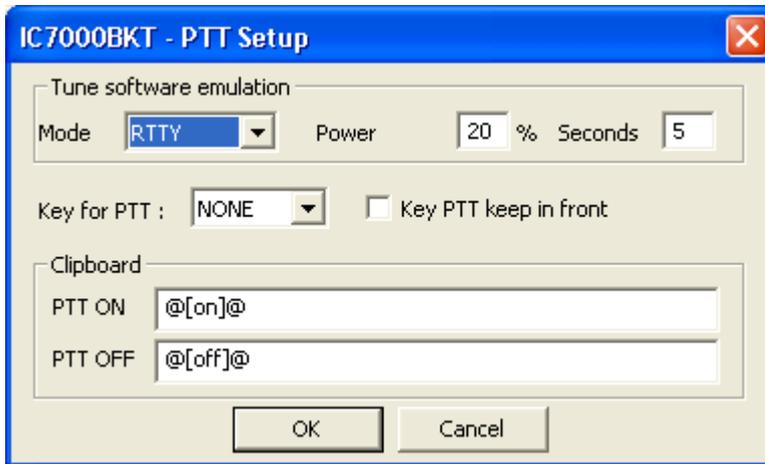
Configuration PTT

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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.

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

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

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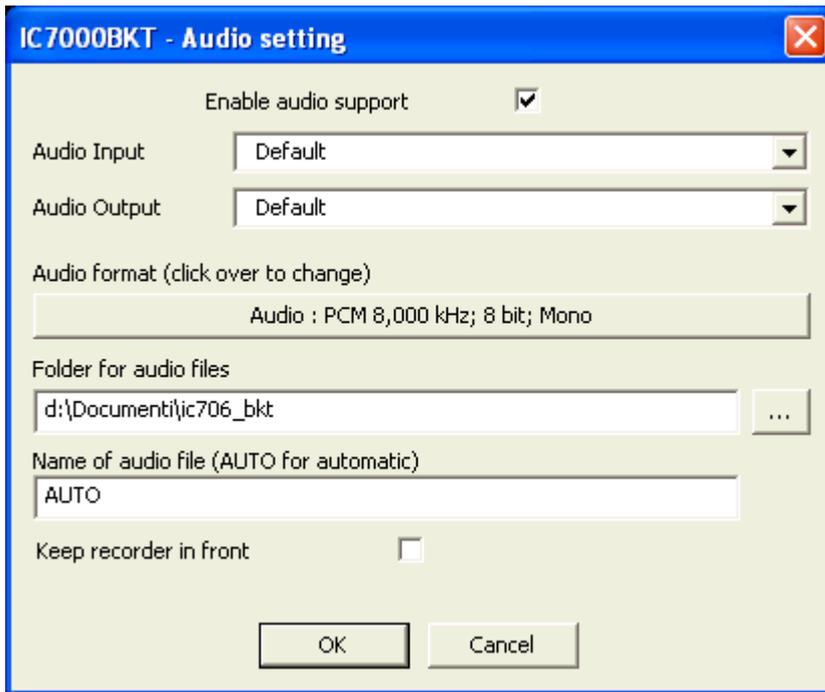
Audio configuration

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Audio configuration

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[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.

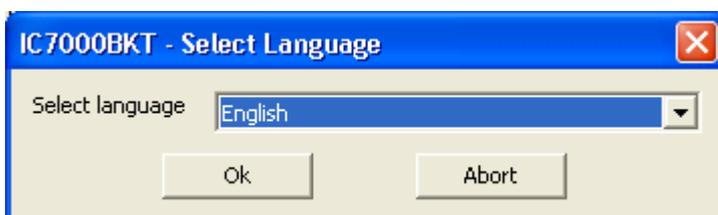
[Name of audio file] it is possible to specify a default name to use for the files audio, if he leaves AUTO, to the beginning of every recording, a file will be produced by the name BKTyyymmddhhmmss.WAV, where yy=year, mm=month, dd=day, hh=hour, mm=minute and ss=second of beginning recording.

[Keep recorder in front] If activated, the Audio Recorder is always maintained in front of all the other windows.

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

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Limits of band and mode

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| Mode | Low limit Hz | High limit Hz |
|------|--------------|---------------|
| CW | 1.800.000 | 1.838.000 |
| RTTY | 1.830.000 | 1.834.000 |
| LSB | 1.838.001 | 2.000.000 |
| USB | 0 | 0 |
| FM | 0 | 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.

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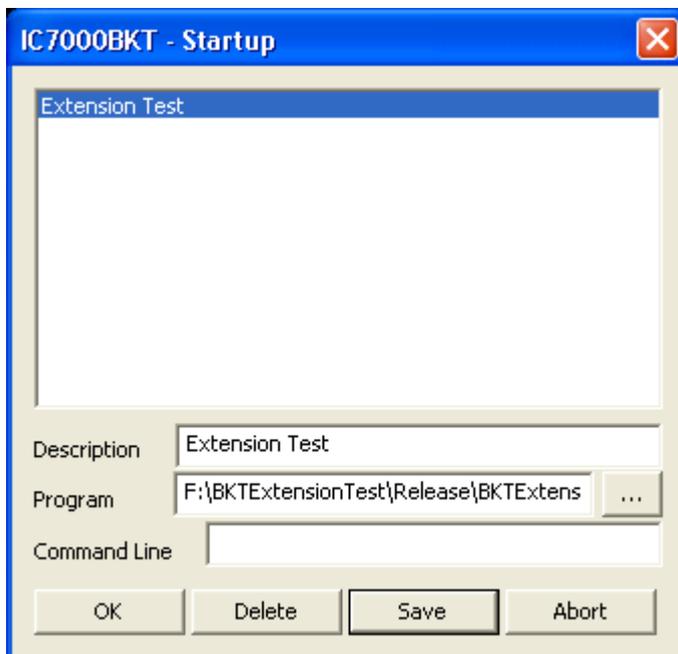
Startup programs

Configuration

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Startup programs

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The programs specified in this window will be started to the start of IC7000BKT.

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

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ATTENTION: this guide has been translated by an automatic system, excuse

The screenshot displays the IC7000BKT - Cat Control software interface. The main window title is "IC7000BKT - Cat Control by IZ2BKT" and "RTX: IC-7000". The interface is divided into several sections:

- Top Left:** AF control with a slider and buttons for Mini, Store, Sync, and Polling. Below are SQL, PO, and RF sliders.
- Top Center:** A large digital frequency display showing "144.414.000". Above it are several "+" and "-" buttons. Below it are buttons for VFO B, USB F2, and SQL.
- Top Right:** Filter:2, SOFT, and Default buttons. Below are sliders for BW (2.4 KHz), I.S. (+0 Hz), O.S. (+0 Hz), and T.PBT (+0 Hz). Further right are buttons for VFO A, VFO B, A=B, and Att.
- Middle Left:** A frequency scale from 144.000.000 to 148.000.000 MHz. Above it are buttons for "2 mt 144MHz" and "Band Stacking" (1, 2, 3).
- Middle Right:** NB, Default, LEV. (50%), and WID. (50%) buttons and sliders.
- Bottom Left:** A menu bar with Split, Memories, Scanner, Skeds, Bands, Set Mode, Utility, Auto CQ, Plug-In, On-Air, and Info. Below is a status bar showing "IZ2BKT 7000 ICOM" and "IC7000BKT - Cat Control by IZ2BKT (c) IZ2BKT - Capelli Mauro". There are also links to <http://www.maniaradio.it> and <http://www.iz2bkt.com/forum>, and a "Total run (Days - Hours:Minutes) :0 - 14:37" display.
- Bottom Center:** Local time "19:11 - 25/01/2015" and UTC time "18:11 - 25/01/2015".
- Bottom Right:** A vertical column of buttons including VSC, Tone, TSQ, DTCS, Comp, Vox, AntiVox, Delay, Mic. Gain, Monitor, Speech, and Hook Clipboard.
- Bottom Left:** Exit and F1-Help buttons.
- Bottom Center:** Radio Station : IZ2BKT Operator : Mauro

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

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 synchronized. Click with the mouse right key for [numerical input](#) of the frequency.

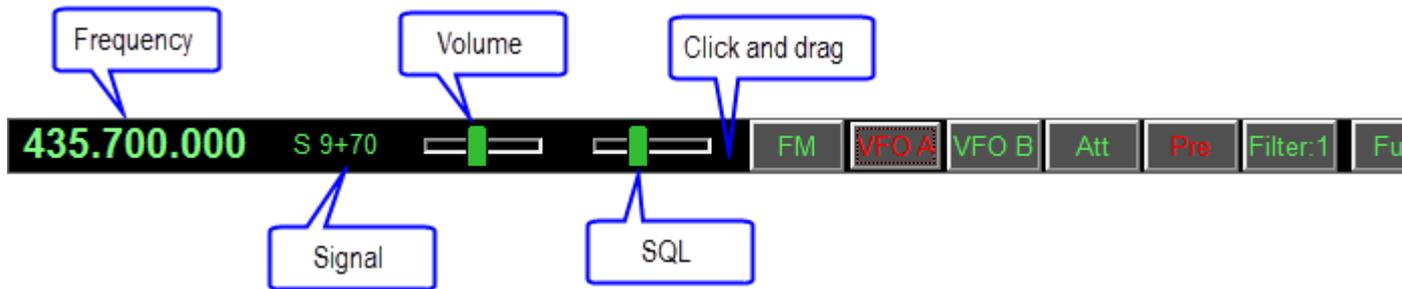
□

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.

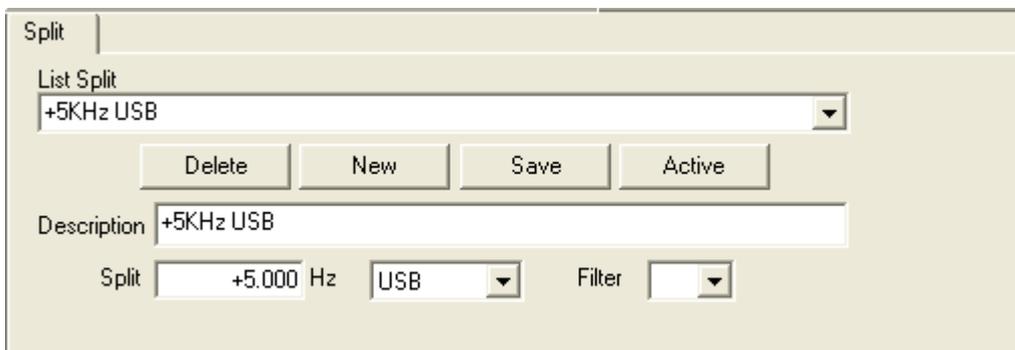
Split

Functions

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Split

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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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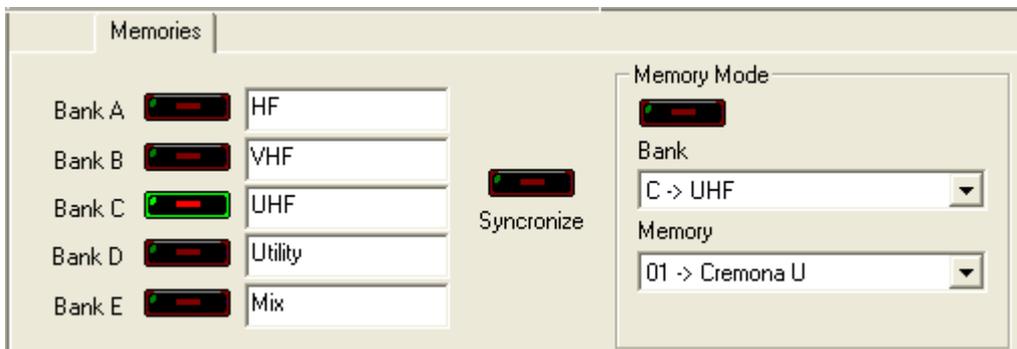
Memories

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Management Memories

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

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



Management of the 5 memory banks. It's possible to associate a name to every bank.

- [Bank n] It opens/Closes [window of management of the memories](#)
- [Synchronize] Synchronize the memory database with the memory of the [memories](#)
- [Memory Mode] Puts the RTX in memory mode and enable [Bank] and [Mer

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Editing Memory Bank

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

Editing Memory Bank [Top](#) [Previous](#) [Next](#)

IC7000BKT - Memory Bank B -

| Nr | Description | Rx Freq. Δ | Rx Mode | Rx Filter | Rx Tone | Rx TSqL | Rx DtcS | Rx Ac.T. | ^Tx | Tx Freq. | Tx Mode | Tx Filter | Tx To |
|----|-------------|-------------------|---------|-----------|---------|---------|---------|----------|------|-------------|---------|-----------|-------|
| 82 | N7TWB | 447.950.000 | FM | 1 | 100.0 | 88.5 | 023-NN | Tone | DUP- | 447.950.000 | FM | 1 | 100.0 |
| 08 | AJ9Y | 448.075.000 | FM | 1 | 100.0 | 88.5 | 023-NN | Tone | DUP- | 446.475.000 | FM | 1 | 100.0 |
| 29 | KL7DSI | 448.100.000 | FM | 1 | 100.0 | 88.5 | 023-NN | Tone | DUP- | 448.100.000 | FM | 1 | 100.0 |
| 43 | KB7FQO | 448.325.000 | FM | 1 | 100.0 | 88.5 | 023-NN | Tone | DUP- | 448.325.000 | FM | 1 | 100.0 |
| 38 | KB7FQO | 448.325.000 | FM | 1 | 100.0 | 88.5 | 023-NN | Tone | DUP- | 448.325.000 | FM | 1 | 100.0 |
| 11 | WB7EVI | 448.575.000 | FM | 1 | 100.0 | 88.5 | 023-NN | Tone | DUP- | 446.975.000 | FM | 1 | 100.0 |
| 07 | W7IFH | 448.825.000 | FM | 1 | 100.0 | 88.5 | 023-NN | Tone | DUP- | 447.225.000 | FM | 1 | 100.0 |
| 02 | W7DIN | 449.075.000 | FM | 1 | 88.5 | 88.5 | 023-NN | Tone | DUP- | 447.475.000 | FM | 1 | 88.5 |
| 33 | WB7TUJ | 449.100.000 | FM | 1 | 100.0 | 88.5 | 023-NN | Tone | DUP- | 449.100.000 | FM | 1 | 100.0 |

Memory : Selected Memory Mode

| | Frequency | Mode | Filter | Tone | TSqL | DtcS | Rx Tone | Rx TSQ L | Rx DTC S |
|----|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|---|---|
| RX | <input type="text"/> | <input type="button" value="Rx Tone"/> | <input type="button" value="Rx TSQ L"/> | <input type="button" value="Rx DTC S"/> |
| TX | <input type="text"/> | <input type="button" value="Tx Tone"/> | <input type="button" value="Tx TSQ L"/> | <input type="button" value="Tx DTC S"/> |

Every variation, insertion and cancellation effected in this window will be reflected in the memories of the RTX (the [OFF-LINE mode](#)).

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

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 RTX in VFO mode.
- [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 point to another.

- [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 sorting, then click Remaps

- [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 memory will be lost.

- [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 deleted.
 - [Memory Mode] Put the RTX in Memory mode and enable the selected memory.
- Every memory contains:
- [Description] Description of the memory (max 9 alphanumeric characters)
 - [Rx Freq.] Frequency of reception
 - [Rx Mode] Modality of reception
 - [Rx Filter] Filter in reception
 - [Rx Tone] Tones in reception
 - [Rx TSQL] SQL tones in reception
 - [Rx DtcS] DTCS codes in reception
 - [Rx Ac.T.] Active tone in reception (Tone, TSQL, DTCS or empty for nothing)
 - [^Tx] Offset of transmission (DUP-, DUP+, SPLIT or empty to transmit on the same frequency of reception)
 - [Tx Freq.] Frequency of transmission
 - [Tx Mode] Modality of transmission
 - [Tx Filter] Filter in transmission
 - [Tx Tone] Tones in transmission
 - [Tx TSQL] SQL tones in transmission
 - [Tx DtcS] DTCS codes in transmission
 - [Tx Ac.T.] Active tone in transmission (Tone, TSQL, DTCS or empty for nothing)
 - [Sel.] Mark the memory as Selected and will come used during [transmission](#) of the memories selected

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

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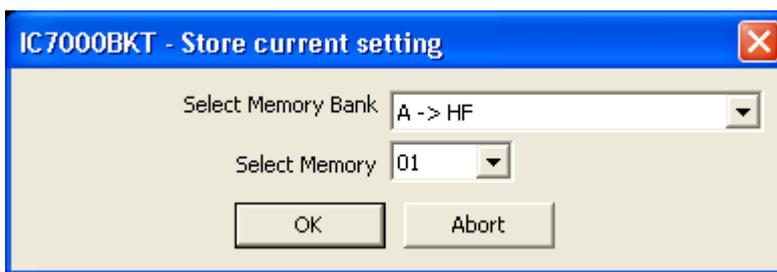
Memorize the current setting

Memories

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Memorize the current setting

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- [Select Memory Bank] Select the memory bank to use
- [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].

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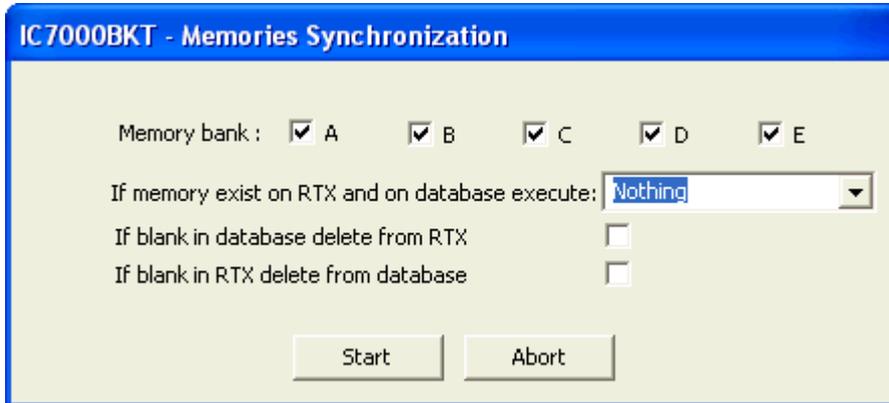
Synchronization of the memories

Memories

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Synchronization of the memories

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

[Memory bank] Select the memory bank to Synchronize
 [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

[f blank in database delete from RTX] If the memory in the database cancelled in the RTX. To cancel the memory the RTX will come put in Memory M memory by to cancel.

[f blank in RTX delete from database] If the memory in the RTX is er cancelled by the database.

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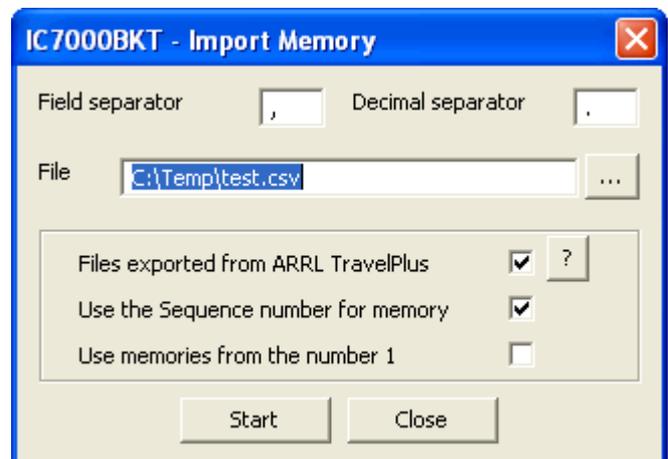
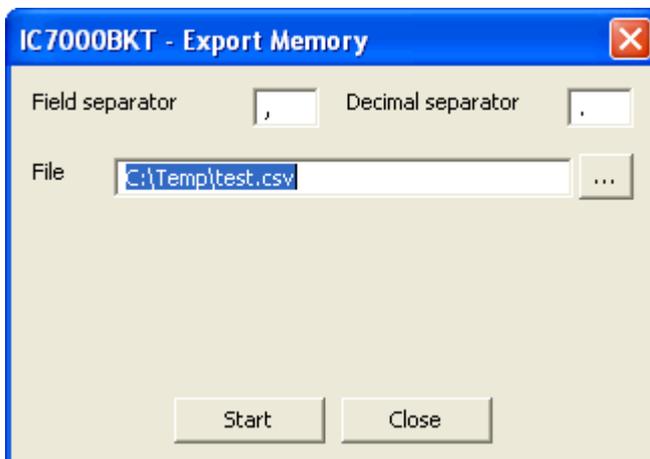
Memory Import / Export

Memory Import / Export

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Memory Import / Export

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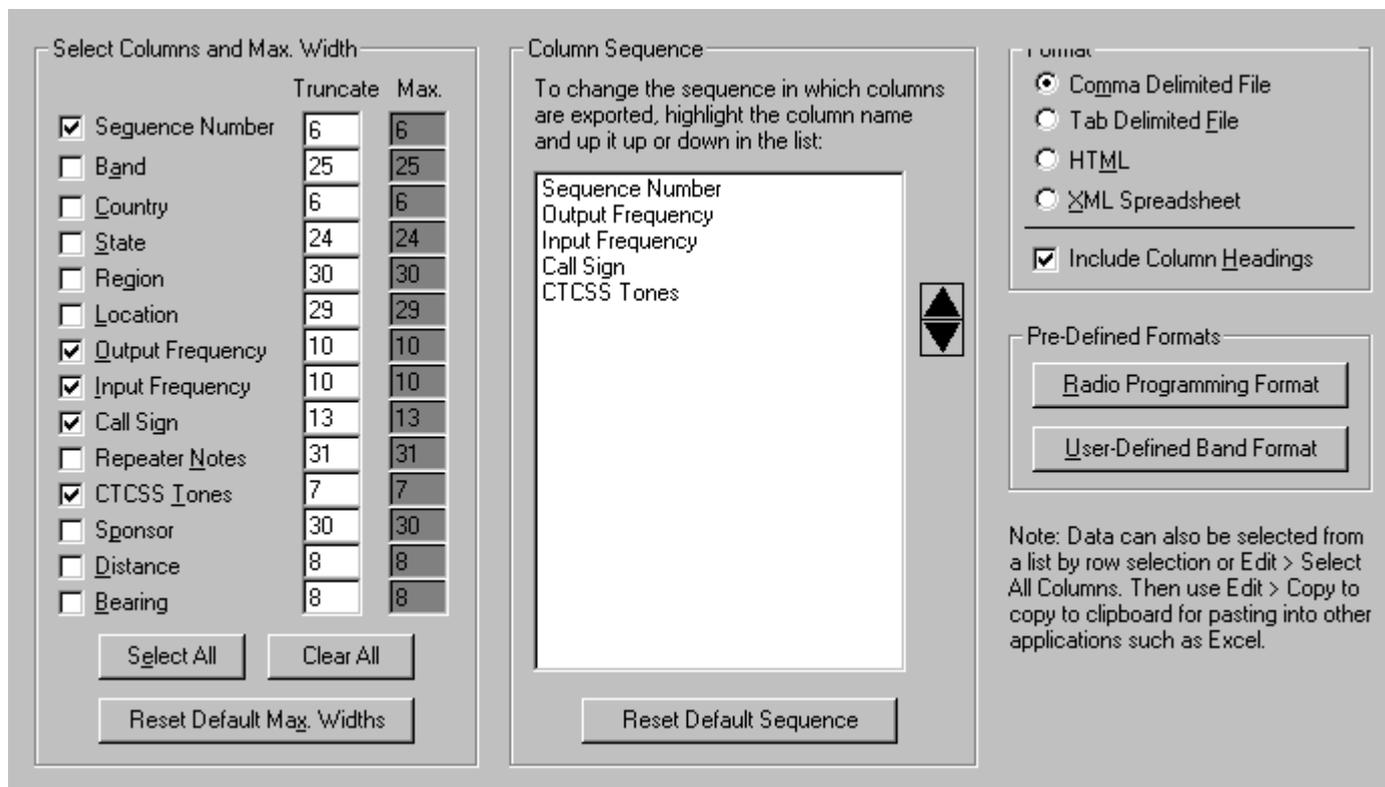


Import or Export the bench of memory in a CSV format file. The format CSV can be used with Microsoft Excel.

- [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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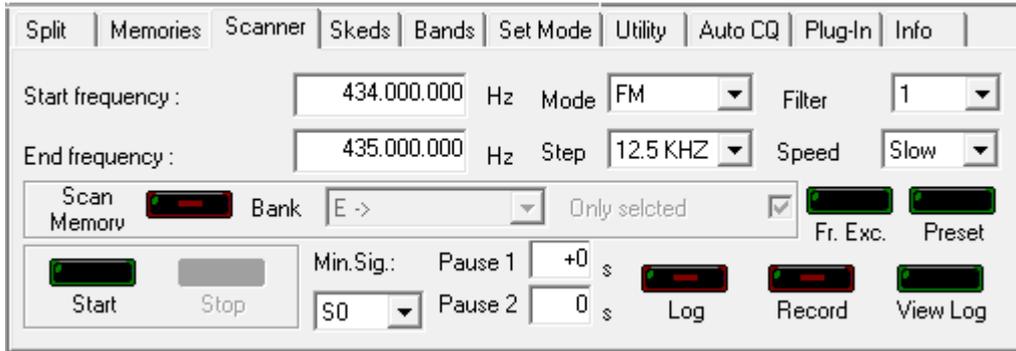
Scanner

Scanner

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Scanner

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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 search |
| [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.  Fr. Exc. 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-7000 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.

Scansion Log

Scanner

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Scansion Log

Scanner Preset

Scanner

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Scanner Preset

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| Description | Start Fr. | End Fr. | Mode | Filter | Step |
|-------------|-------------|-------------|------|--------|----------|
| VHF | 145.000.000 | 146.000.000 | FM | 2 | 5 KHZ |
| UHF | 434.000.000 | 435.000.000 | FM | 2 | 12.5 KHZ |

Description :

Start frequency : Hz Mode Step

End frequency : Hz Filter

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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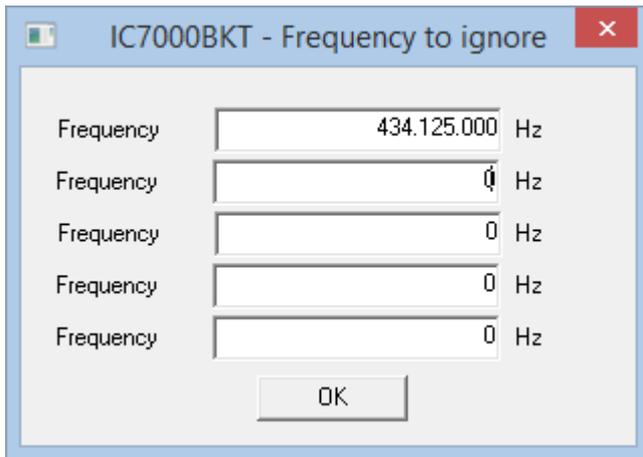
Frequency to ignore

Scanner

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Frequency to ignore

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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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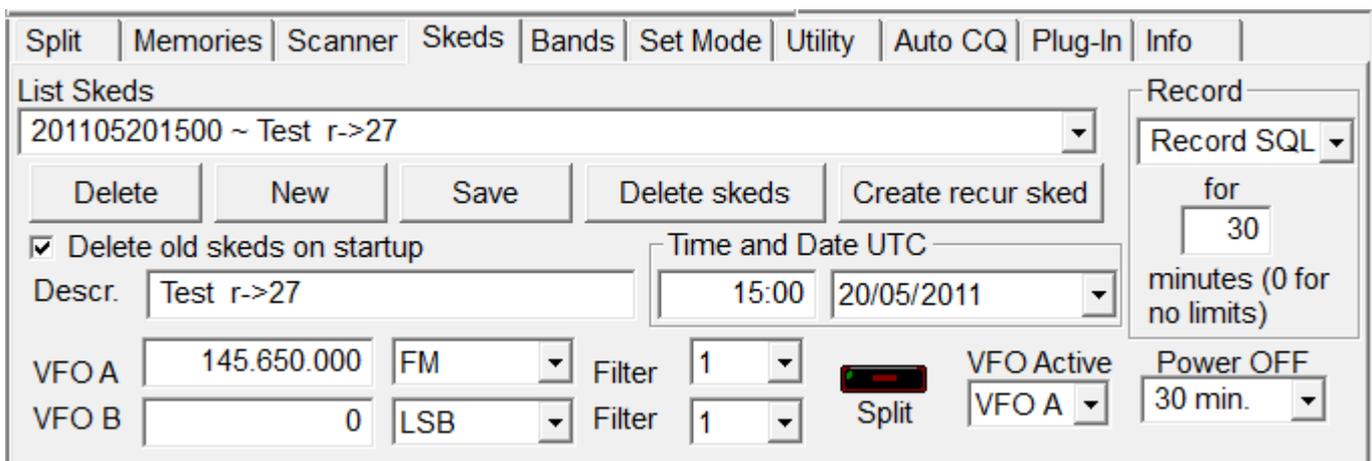
Skeds

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Skeds

Skeds

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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 feature. |

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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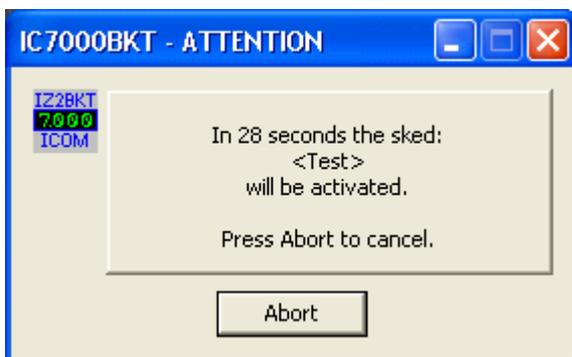
Activation sked

Skeds

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Activation sked

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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

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Generate recur skeds

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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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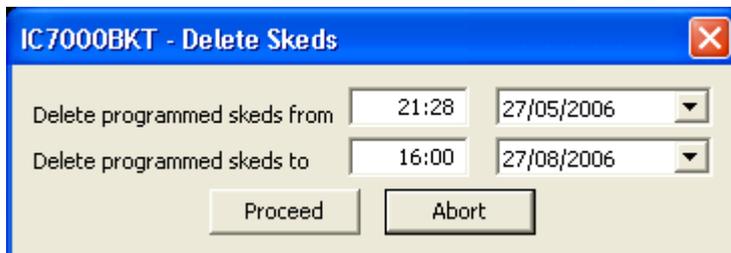
Delete skeds

Skeds

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Delete skeds

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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 |

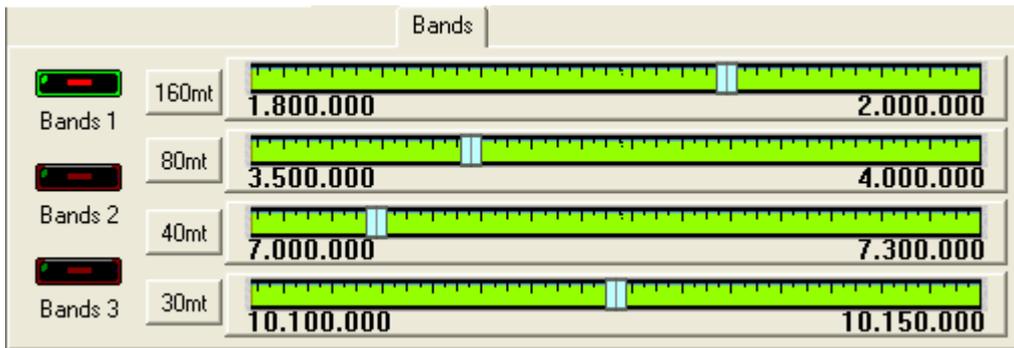
Time and date UTC.

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Bands

Functions

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

Radioamateurs bands in 3 groups on 4 tuning scales.

- [Bands 1] **First group: 160mt - 0mt - 0mt and 30mt**
Bands 2] Second group: 20mt - 17mt - 15mt and 12mt
Bands 3] Third group: 10mt - 6mt - 2mt and 70cm

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 screenshot shows the 'Set Mode' control panel with the following settings:

- Set Callsign:** [Set Callsign button]
- Enable opening message:**
- Auto Power OFF:** OFF
- Clock:**
 - 1: 25/02/2011, 21:32
 - 2: Enabled Offset: - 01:00 H
 - [Synchronize with the PC clock button]
- RTTY:**
 - Mark: 2125 Hz
 - Shift: 170 Hz
 - Polarity: Normal
- CW Setting:** [CW Setting button]
- Setting:** [Setting button]

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

[Set Callsign] [program registration](#)

[Enable opening message] Turns the opening message screen indication capability ON or OFF.

[Auto Power OFF] Set the power-off period for automatic shutdown, OFF for disable auto power-OFF

Clock

Management of the RTX clock

[1] Set dates and time of the first fused hourly

[2] Second fused

[Enabled] Visualization on display second fused hourly

[Offset] Offset of the second fused hourly regarding the first one from - 24: 00 to +24: 00 with steps of 5

minute

[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

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

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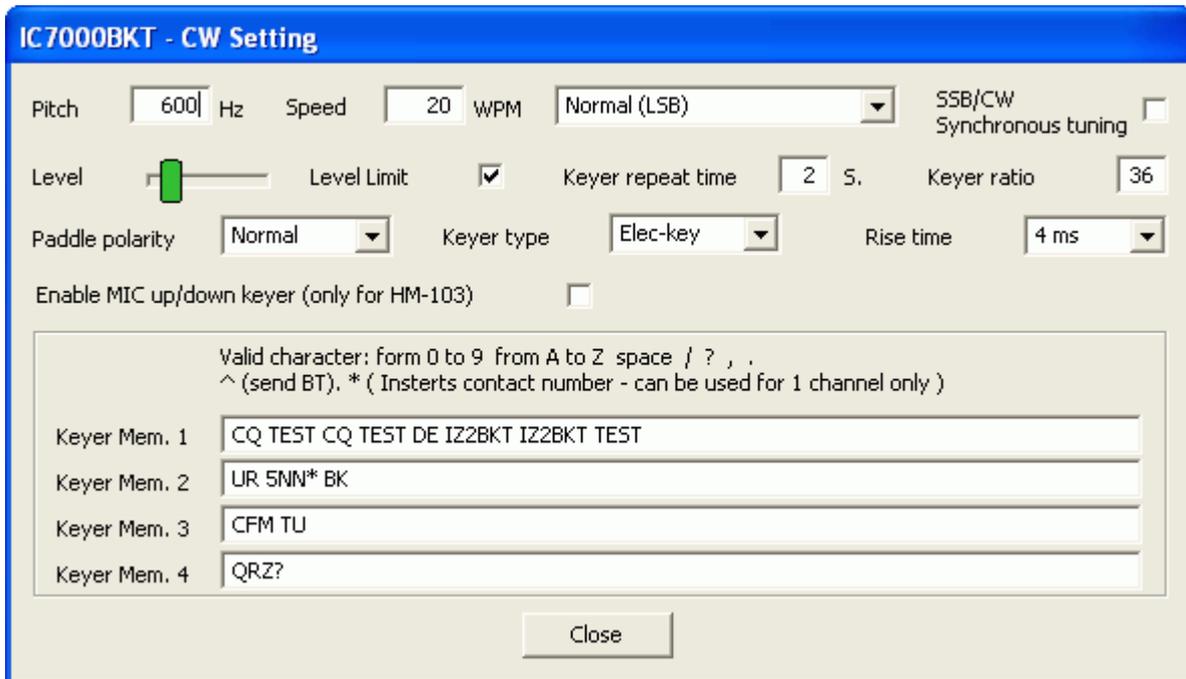
CW Setting

Set Mode

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CW Setting

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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).

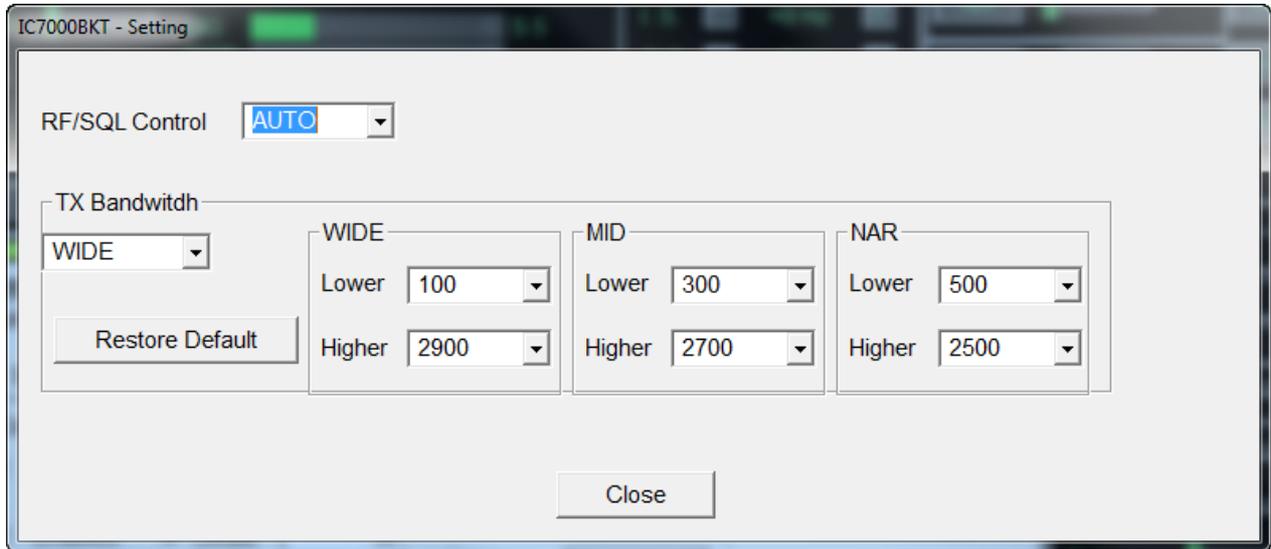
Setting

Set Mode

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Setting

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RF/SQL Control : Defines the mode of control RF/SQL (see the manual of the IC-7000 for more details)

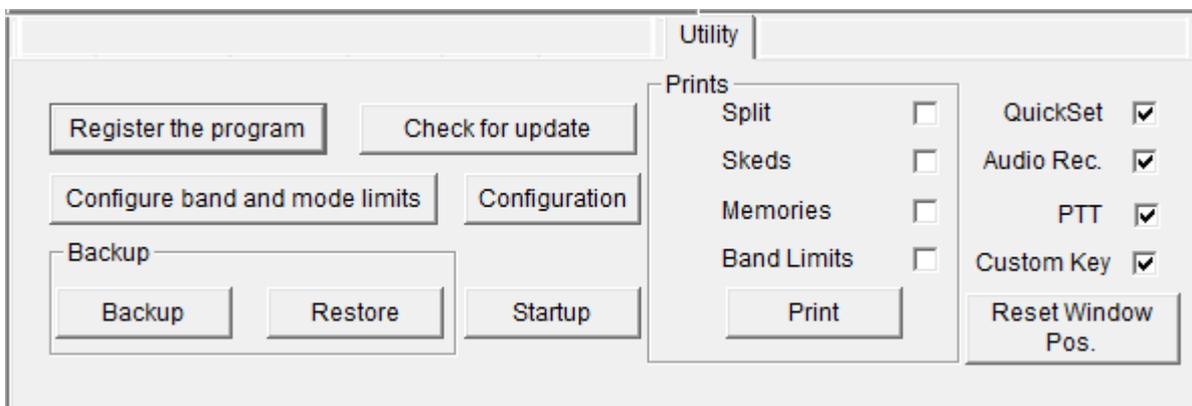
TX Bandwidth : Sets the bandwidth in transmission (see the manual of IC-7000 for more details)

Utility

Functions

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

Utility



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

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

[Configure band and mode limits] [Management of](#)

[Configuration] [Configuration of the IC7000BKT](#)

- [Startup] [Select the programs](#) for running with IC7000BKT
- Backup**
- [Backup] Save data and configuration in the file IC7000BKT_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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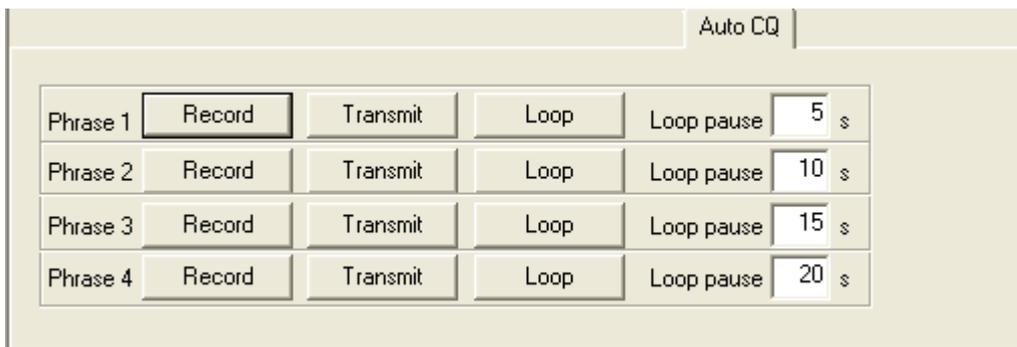
AutoCQ

Functions

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AutoCQ

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

- [Record] Records the phrase.
- [Transmit] If activated, it puts the RTX in transmission and it reproduces phrase.
- [Loop] If activated, it puts the RTX in transmission and it reproduces sentence. Re-push the key for interrupt immediately the reproduction and [Loop pause] pause in second between the reproduction of a phrase and the

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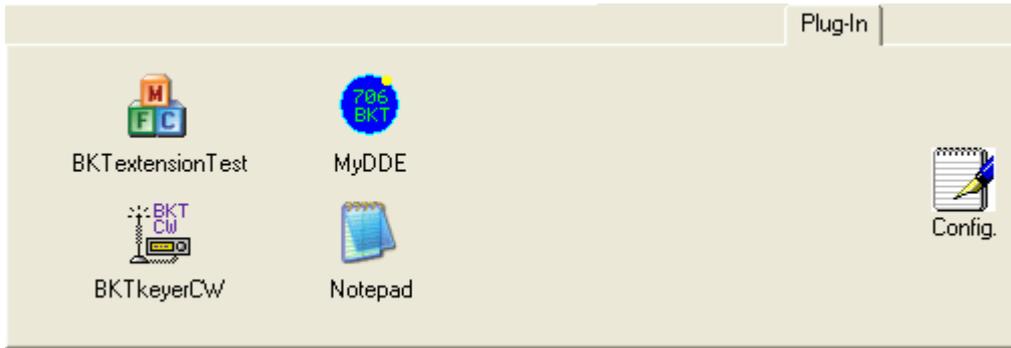
Plug-in

Plug-in

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Plug-in

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Management of Plug-In and external programs.

[Config.] [Configure Plug-In/programs](#)

The Plug-in they are additional programs that interact with IC7000BKT, however, can be added like Plug-In whichever program.

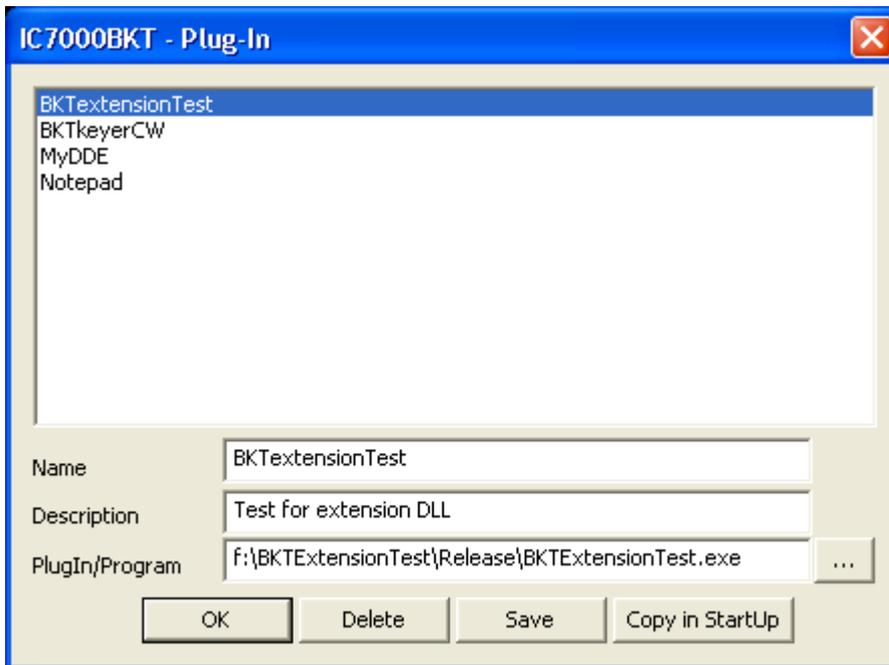
Plug-In Management

Plug-In

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Plug-In Management

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[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 f**
 [..] **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 IC7000BKT start |

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OnAir

Funzioni

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On Air

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

The screenshot shows two sections for controlling On-Air status:

- HrdLog section:**
 - Enable OnAir:
 - Callsign:
 - Radio:
 - Refresh: s
 - Enable Cat:
 - Code:
 - Mode:
 - [DX Cluster](#)
 -
- EnzoLog section:**
 - Enable:
 - Callsign:
 - Radio:
 - Refresh: s
 - Password:
 - Mode:
 -

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

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Hook Clipboard

Functions

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Hook Clipboard

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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 | 1551Z |
| DX de IK7AFM: | 28654.8 | N42Z | TN | 1551Z |
| DX de IZ8BRI: | 28690.0 | WA4TII | | 1604Z |

Select the frequency and press 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

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PTT

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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](#)
- [1750Hz] Switch in transmission mode and send one note of 1750Hz for 1 second (need the [connection of the audio card](#) with the RTX)
- [Tune] Selects operating mode and power specifies in [configuration](#) and switch in transmission for the seconds configurate
- [Auto Tune] Start or Stop the automatic antenna tuner, requires an automatic tuner as the AT-180, the AH-4 or equivalent.

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]

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Recorder audio

Functions

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AudioRecorder

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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 BKTyymmddhhmmss.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

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QuickSet

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

| QUICKSET | | | |
|----------|-----------------|----|-----------------|
| Store | | | |
| 1 | PSK31 3.5MHz | 11 | JT65A 3.5MHz |
| 2 | PSK31 7MHz | 12 | JT65A 7MHz |
| 3 | PSK31 14MHz | 13 | JT65A 10MHz |
| 4 | PSK31 18MHz | 14 | JT65A 14MHz |
| 5 | PSK31 28MHz | 15 | JT65A 18MHz |
| 6 | SSB 3.5MHz | 16 | JT65A 21MHz |
| 7 | SSB 7MHz | 17 | JT65A 24MHz |
| 8 | SSB 14MHz | 18 | JT65A 28MHz |
| 9 | SSB 21MHz | 19 | JT65A 50MHz |
| 10 | SSB 28MHz | 20 | JT65B 144MHz |

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

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

Custom Key

Function

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Custom Key

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Custom Key

| | | | | | |
|---|--------------|---|--|---|--|
| 1 | Swap VFO A/B | 2 | | 3 | |
| 4 | | 5 | | 6 | |

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.

Custom Key Editor

Description : Swap VFO A/B

Command : 07B0

Save Abort

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.

Various

List

Various

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List

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List of selected value

DTCS**Various**[Top](#) [Previous](#) [Next](#)**DTCS**[Top](#) [Previous](#) [Next](#)

IC7000BKT - Select DTCS code ✖

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 023 | 072 | 152 | 244 | 311 | 412 | 466 | 631 |
| 025 | 073 | 155 | 245 | 315 | 413 | 503 | 632 |
| 026 | 074 | 156 | 246 | 325 | 423 | 506 | 654 |
| 031 | 114 | 162 | 251 | 331 | 431 | 516 | 662 |
| 032 | 115 | 165 | 252 | 332 | 432 | 523 | 664 |
| 036 | 116 | 172 | 255 | 343 | 445 | 526 | 703 |
| 043 | 122 | 174 | 261 | 346 | 446 | 532 | 712 |
| 047 | 125 | 205 | 263 | 351 | 452 | 546 | 723 |
| 051 | 131 | 212 | 265 | 356 | 454 | 565 | 731 |
| 053 | 132 | 223 | 266 | 364 | 455 | 606 | 732 |
| 054 | 134 | 225 | 271 | 365 | 462 | 612 | 734 |
| 065 | 143 | 226 | 274 | 371 | 464 | 624 | 743 |
| 071 | 145 | 243 | 306 | 411 | 465 | 627 | 754 |

Tx Polarity

Rx Polarity

Select Tx Polarity, Rx Polarity and click on the wished code.

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Tone**Various**[Top](#) [Previous](#) [Next](#)**Tone**[Top](#) [Previous](#) [Next](#)

IC7000BKT - 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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DUP

Various

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DUP

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Input the DUP value and press [OK].

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Chosen VFO

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Chosen VFO

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Select the VFO currently in reception.

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OFF-LINE Mode

Various

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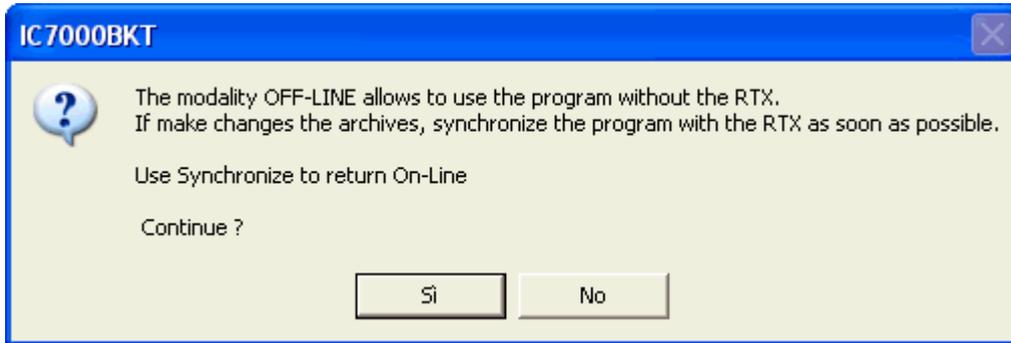
OFF-LINE Mode

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

Error from the serial port COM specified in [configuration](#).

[Exit] Close the program

[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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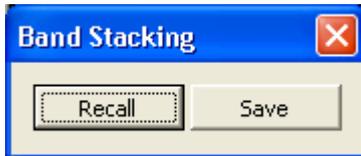
Band Stacking

Various

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Band Stacking

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[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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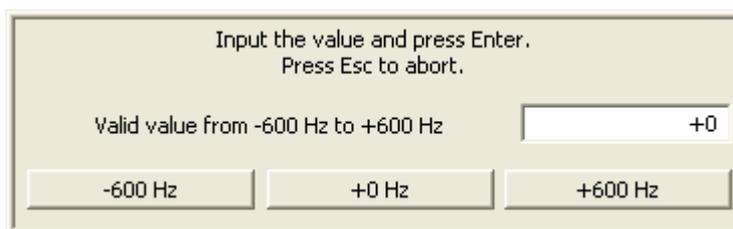
Numerical Input

Various

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Numerical Input

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

ESC .

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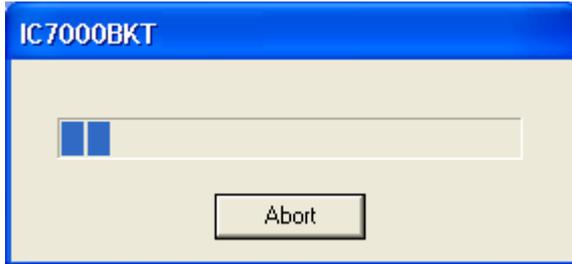
Progress Indicator

Various

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Progress Indicator

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Pointer of progress of the operation in course.

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Function Full Version

Various

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Function Full Version

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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]
program registration

Opens [window to load the registration key](#) or to have information on the

[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

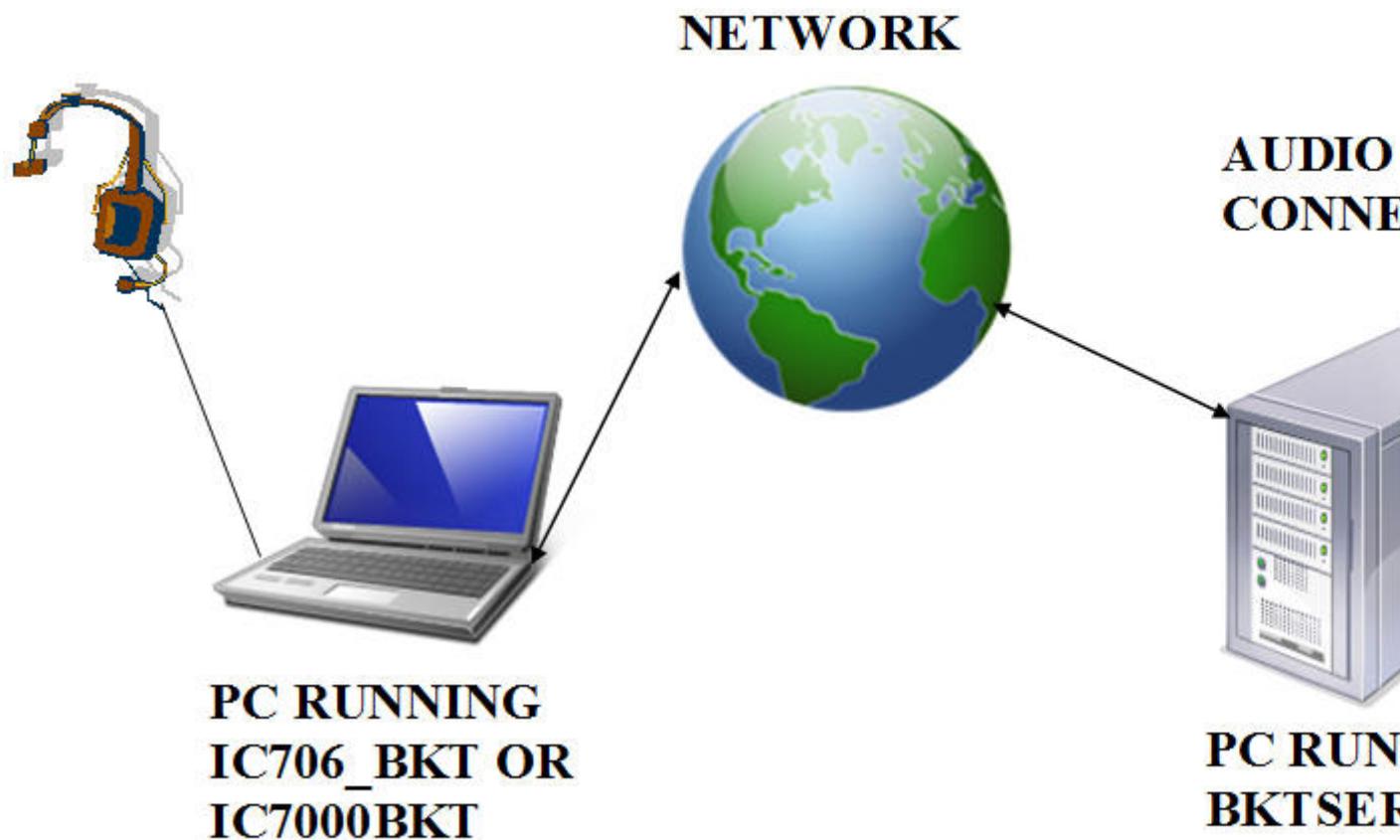
Remote management by TCP/IP

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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

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Access Control

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BKTClient start window.

[Connect to] Address IP of the PC server

[Password] Password connection, only used if required by the server.

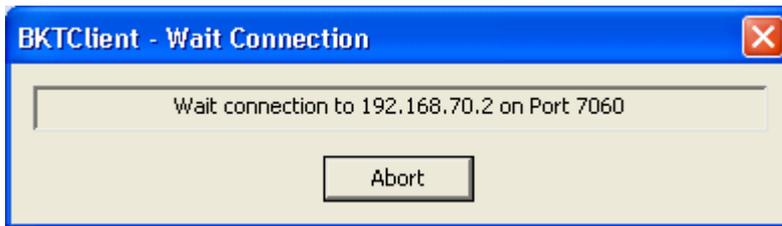
[Connect to startup] If selected not shown this window but connect directly to the server.

[Setup] [BKTClient configuration](#).

[Connect] Starts the connection to the server.

[Exit] Closes the program.

[Off-Line] Executes IC7000BKT or IC706_BKT without connecting it to the server.



Wait of the connection to the server.

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BKTClient

BKTClient

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Select

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For enable the driver BKTClient to select BKTCLIENT.DLL as Port in the serial port configuration of the program IC7000BKT or IC706_BKT.

[Driver Setup] [Configure the BKTClient](#).

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Configuration

BKTClient

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Configuration

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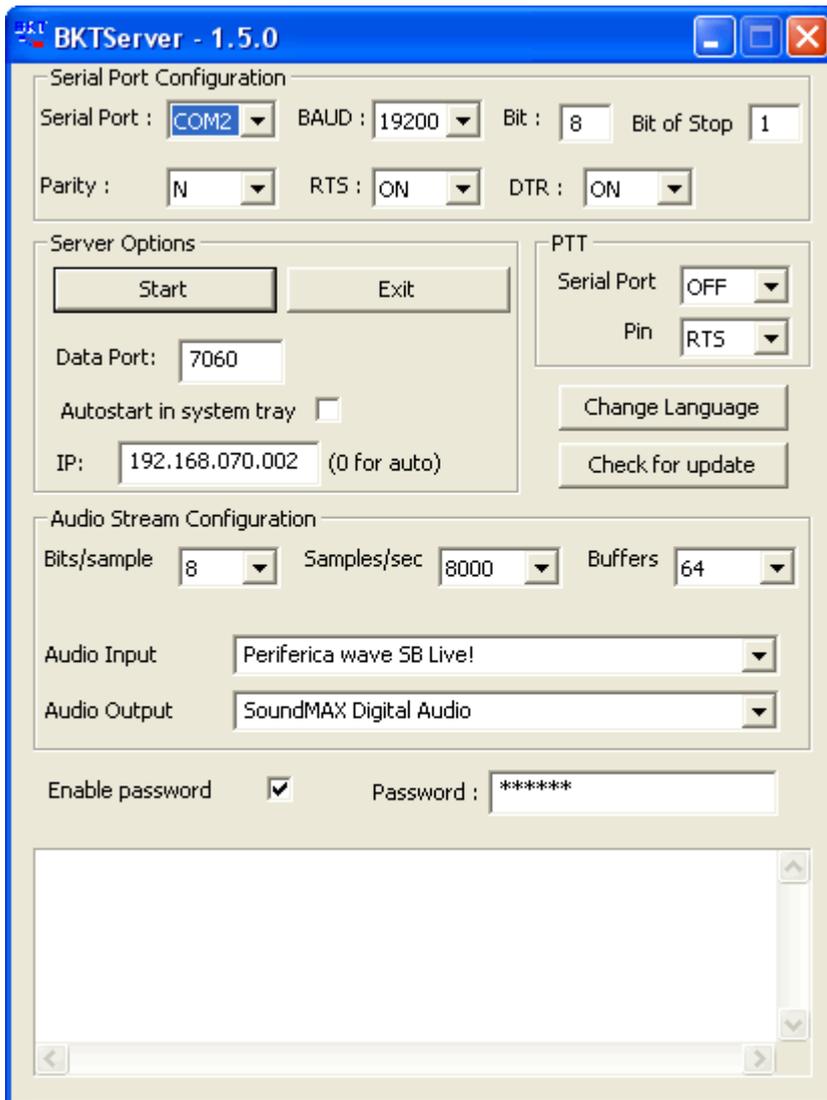
| | |
|--------------------------------------|---|
| [Server] | IP address of the PC server with in execution BKTSer |
| [Port Com.] | LAN port of communication |
| [Local IP] | If you have multiple LAN cards you can specify the local IP add |
| [Enable Audio Support] | Enables the receipt/ transmission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

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BKTSer

BKTSer

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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.

Change Language: Program language to use.

Check for update: Check if new version its available. Need a internet connection.

[Audio Stream Configuration]

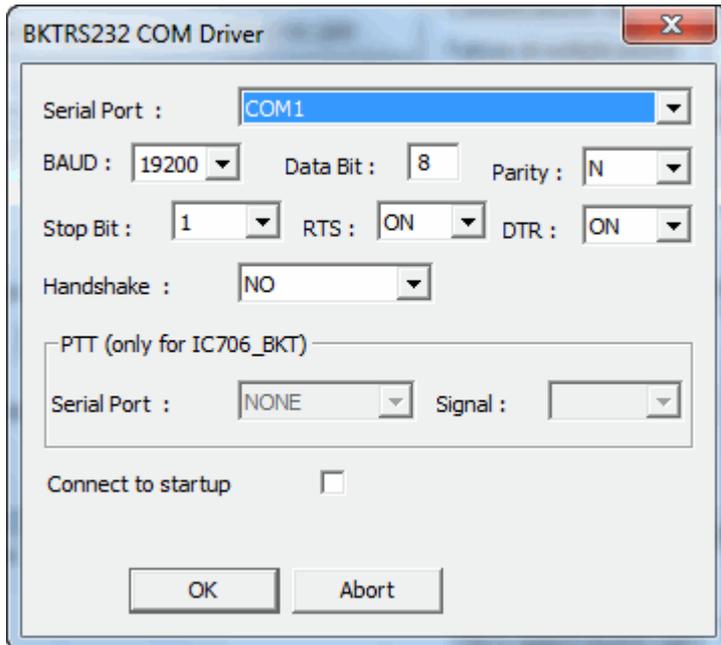
Specify the parameters audio, increasing the values of Bits/sample and Samples/sec it will increase the fidelity of the audio but it needs greater band. Increase the Buffers if loss audio packets.

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

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

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Interfacing with other programs

Interfacing with other programs

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IC7000BKT 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 IC7000BKT is executed BEFORE any other program.

If DDE doesn't work, it's possible to enable the LAN Protocol in the configuration to [use IC7000BKT with JTDX, WSJT-X, JS8CALL, MSHV](#), etc...

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[Help Authoring Tool](#)
