IC706_BKT - Icom IC-706 series CAT Control

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Information on IC706_BKT

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What it is

IC706_BKT

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What it is

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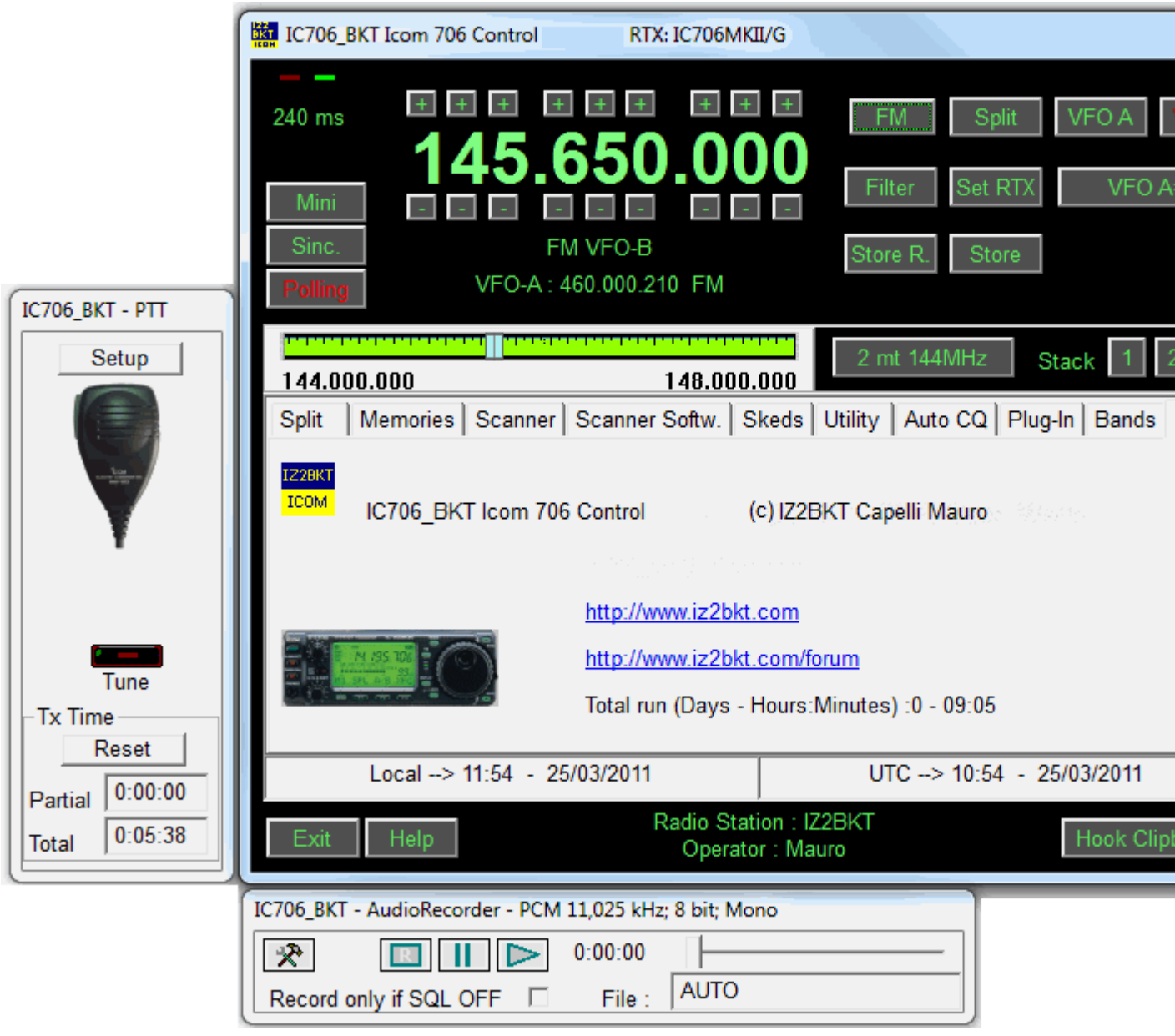
ATTENTION: this guide has been translated by an automatic system, errors.



The program I m proposing is for interface the transceiver Icom model 706 in its three versions to personal computer. To c
socket locate behind Icom 706 and a small interface that converts the signal to adapt it to personal computer serial port. T
2000/XP/Vista/Windows 7 32 and 64 bit and may be configured for the serial port from the COM1 to COM20. The remote
limited, to get over this limit, in some cases, the program will carry out more than an operation in sequence.

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IC706_BKT Limitations

IC706_BKT Limitations

For all models (IC-706 - IC-706MKII - IC-706MKII/G) :
It is not possible read or write memory names.
It is not possible read or write the subtone value.
It is not possible read the setting of the DUP

Only for IC-706 and IC-706MKII :
It is not possible read or write memory names.
It is not possible read or write the subtone value.
It is not possible read the setting of the DUP
It is not possible read the S-Meter
It is not possible read the SQL
It is not possible read or write the Attenuator
It is not possible read or write the Preamplificator
It is not possible read or write the AGC
It is not possible read or write the NB
It is not possible read or write the Tone
It is not possible read or write the TSQL
It is not possible read or write the Vox
It is not possible read or write the BKin
It is not possible read or write the Compressor
It is not possible read or write the Reverse

These limitations are hardware and not resolvable by computer software.

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Connection and interfaces

Connection and interfaces

The connection between PC serial port and CI-V entry of IC706 happens through an signal conversion interface you can
following scheme in Fig.1 or of Fig. 2.

It is possible to experiment different speed of communication according to the power of your PC.

The program was also been tested with various USB and serial interfaces and with the West Mountain Radio RIGtalk.

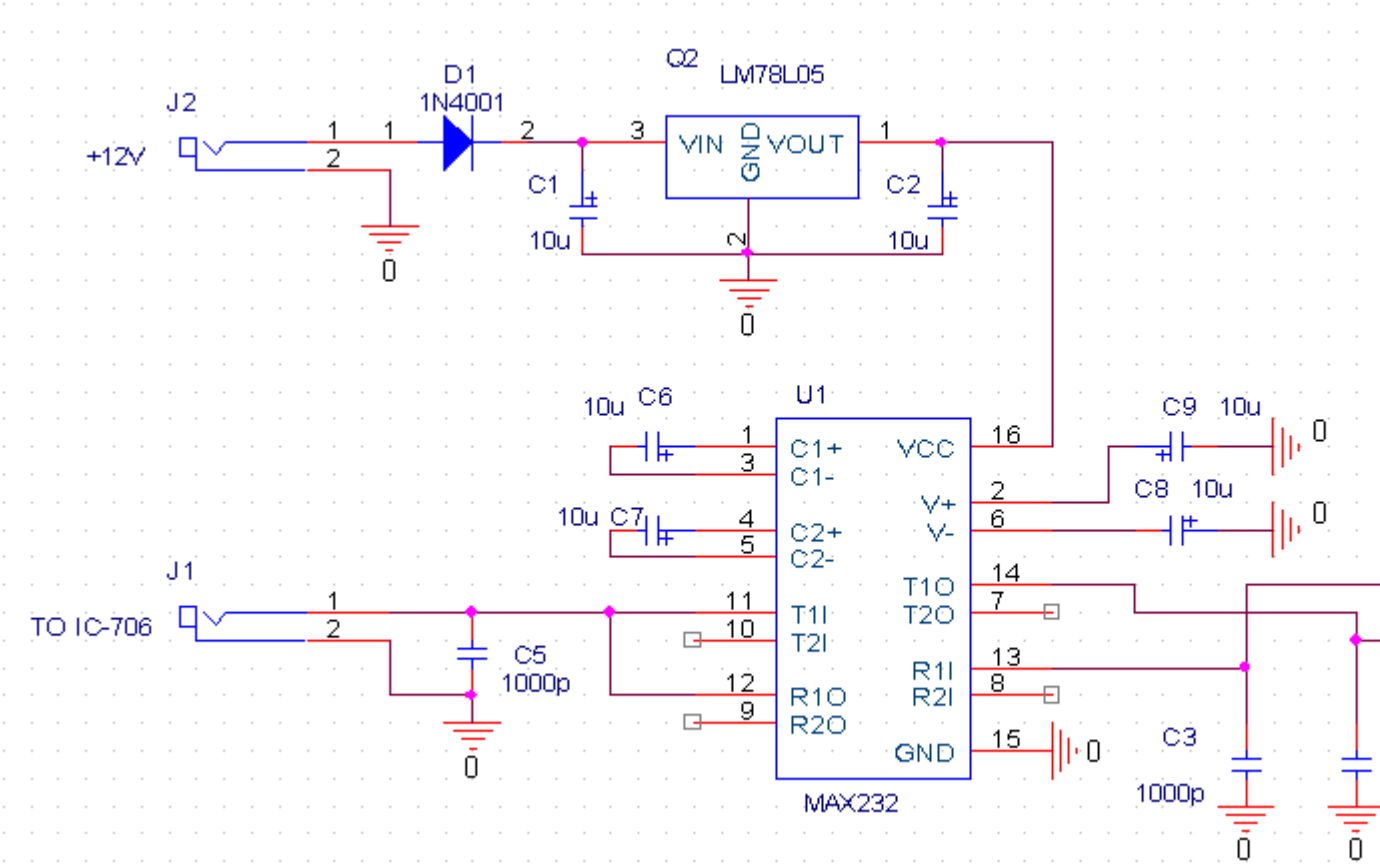
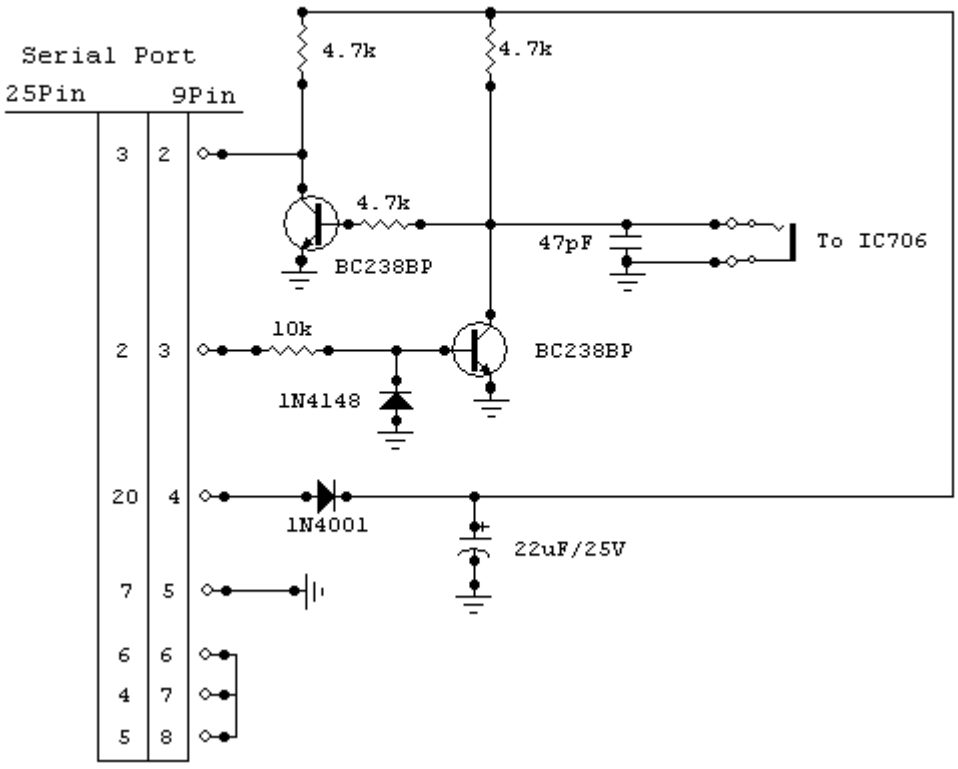


Fig. 1



To make to work the PTT is necessary a circuit of interface among the serial port of the PC and the RTX. You can use a systems, or, build the simple circuit schematized in Fig. 3. In this case, in the configuration PTT, to plan the field Pin PT

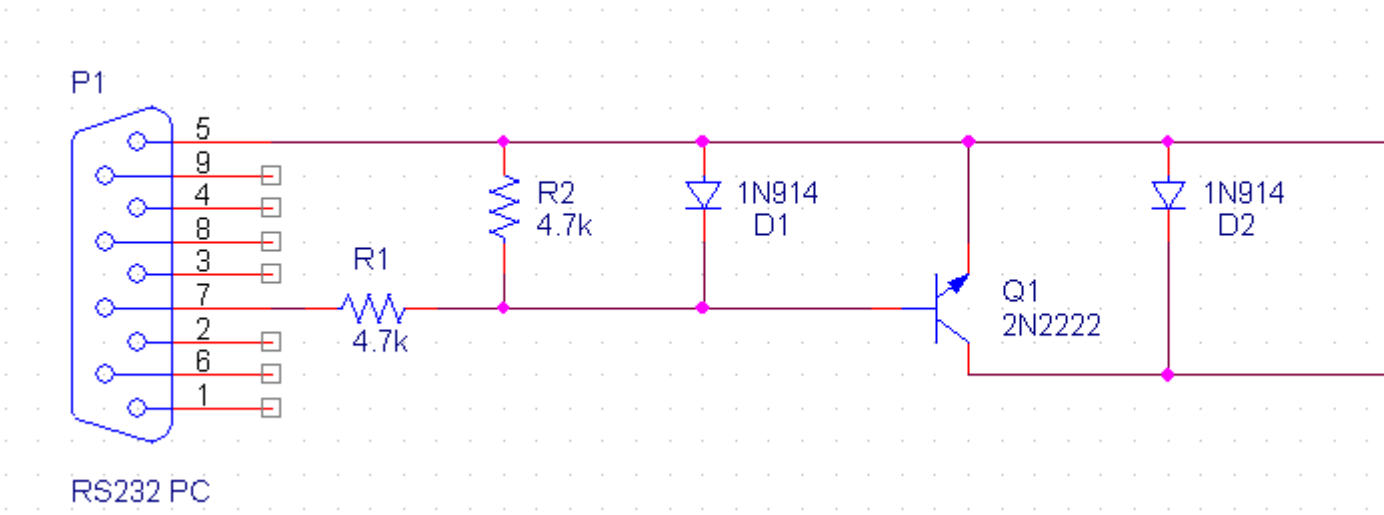
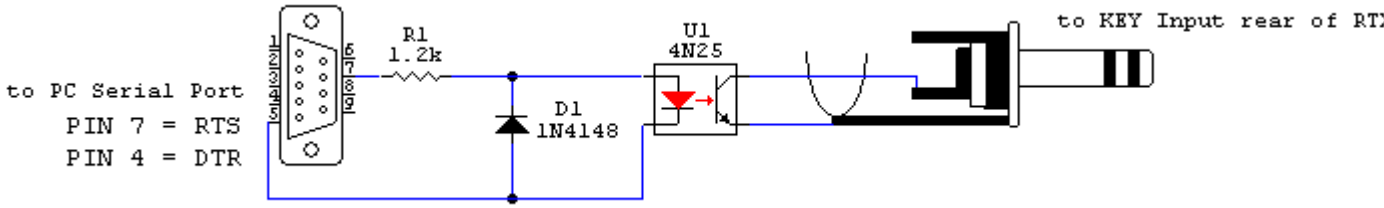


Fig. 3
Connection with the audio card of the PC

Interface for BKTkeyerCW Plug-in



Simple interface to transmit in CW with Plug-in BKTkeyerCW.

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Changelog

IC706_BKT

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Versions

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Vers. 1.00 08/2000
First official release.

Vers. 2.00 04/2001
Adds function VFO A=B.
Adds the function to calculate the limits of band managed by the RTX.
Adds the ToolTips on the commands.
Adds the management of the bands radio amateur.
Adds the management of the scanner.
Adds the management of the memories on disk and of the RTX.
Improved the graphics.

Vers. 2.01 11/2001
Increased the dimension of the curtain of selection gang
Parameterized the description of the items of the tab
Possibility to change the code of activation

Vers. 3.00 02/2002
Possibility to manually plan the limits of frequency, this to resolve a bug of the model G that doesn't

correctly pass the superscript of the maximum frequency available.
Possibility to stamp memories and memorized split.
Function of capture given by the clipboard of windows, this allows him exchange data with other programs, above all with the programs DXCluster (es. RxClus) and to automatically plan frequency and way according to the select spot.
Sequential reading of the 99 memories of the RTX and relative memorization as memories of the program.
Function of scanner totally managed by software.
Lifesaving function and restoration you date.
Possibility of 2 different ways of activation of the program.

Vers. 3.01 03/2002
Resolved the problem of the backup that failed if split or memories of program were not memorized.

Vers. 3.10 05/2002
Changed the green of the display with one to united shade.
Adds the visualization of date and now both place and UTC.
Adds the function skeds to program the activation of frequencies and ways to dates and pre-arranged schedules.

Vers. 3.11 19/05/2002
Adds the key to reduce to icon.
Adds the possibility to plan the offset for the calculation of the time UTC.

Vers. 3.50 05/10/2002
Optimized the management of the serial port.
Adds the commands for the version 706MKII/G.
I check on the id of the RTX in the setup.
The range is selected in base to the id of the RTX.
The management of the memories happens in separate windows and with grate with possibility to order the memories for name, frequency and any other field.
The scanning by software can be checked by the SQL and to produce a log.
The manual is in formed MHT for Windows Explorer.
Possibility to access the manual pressing F1 or the relative button on the principal mask.
Adds the control of the integrity of the executable.

Vers. 3.50.1 06/10/2002
Removed the error message of the serial port when the RTX is in transmission and when the program is closed.

Vers. 3.50.2 07/10/2002
Adds the Handshake TRAN for compatibility with the transistors interfaces.

Vers. 3.50.3 12/10/2002
Replaced the class CSerial with the old CSerialPort.

Vers. 3.50.4 14/10/2002
Corrected the error that if the select com is not valid it caused an error of protection.

Vers. 3.50.5 15/10/2002
Adds the possibility of setting the offset to 0 for the calculation of the time UTC.

Vers. 3.50.6 19/10/2002
Changed the manual by MHT to CHM.

Vers. 3.50.7 13/11/2002
Adds the control of the timeout of communication of the serial port.
When the attenuator is inserted it comes first past the command of preampli off.
Changed the manual in English with the translation of Rafael Rosa.

Vers. 3.50.8 17/11/2002
Repaired the translation.

Vers. 3.50.9 21/11/2002
Eliminated the bug that didn't finish the program if there is no communication with the RTX.

Vers. 3.50.10 29/11/2002
If the window of the memories radio or pc you/he/she is closed when to icon or maximized the dimension/position is not memorized.
Added the icons to the dialogs of the memories.
Adds the key Other Info in the dialog Recording.

Vers. 3.50.12 05/03/2003
Corrected the bug of variation frequency with the keys spin.
Possibility to change the background color and of the text of the displays.

Vers. 3.50.13 22/03/2003
Possibility of management of the signals RTS and DTR.

Vers. 3.60 12/07/2003
Adds the function PTT.
Removed the sort in the memories radio for problems of synchronization.
Improved the communication PC < - > RTX.
Improved the function Syncronizes in the memories radio.
Improved the function you Read Memories in the memories PC.
Adds the column tone in the memories PC.
Adds the possibility to use the key Canc to cancel the memories.
Adds the function active frequency on the log of the scanner software.
Recording Level 1 by web.
Corrected the control of the timeout.
Changed the code of level 2.
Help in formed contextual WinHelp activated from F1 on any mask.

Vers. 3.60.1 13/07/2003
Correct a bug that didn't write in the register the new code L2.

Vers. 3.60.2 20/07/2003
Correct a bug in the reading of the memories with split.
It memorizes the last selection chosen in the Laws Memories.
In the version English, systematized the visualization of the key Filter in the Split.

Vers. 3.70.0 01/10/2003
Adds the Audio Recorder
Possibility to record during the scanning software (only for MKII/G).
Adds the function of AutoCQ to effect up to 4 repetitive calls.
The memories PC can be divided in more groups.
The backup is compatible with the ZIP.

Vers. 3.70.1 09/01/2004
Correct a bug not to send the additional commands to the versions IC706 and IC706MKII.
Eliminated the problem of the block in to enter the configuration if the RTX doesn't respond to the commands.

Vers. 3.70.4 14/02/2004
Increase the performances of the serial communication.
Improved the scanner software.
Improved the reading of the memories.

Vers. 3.70.5 01/03/2004
Improved scanner log.

Vers. 3.71.0 01/05/2004
Adds support for the Icom IC718.

Vers. 3.71.1 24/05/2004
Removed Bug on RTX selection.

Vers. 3.80.0 30/09/2004
Correct the bug for right restore of Mode in various function.
Adds the total and partial calculation of the time of transmission.
Adds the choice of the key for the PTT.
Adds the key TUNE.
Adds the localization by file ascii.
Adds the management of external driver.
Adds the management of the commands from external programs.
Adds the group of programs startup.
Adds the driver BKTClient for the remote management by TCP/IP.

Vers. 3.81.0 04/10/2004
Adds scanning from memory in Scanner Software.
Improved timeout control.

Vers. 3.81.1 23/10/2004
Corrected a bug on Resume Scan in Scanner Software

Vers. 3.81.2 24/10/2004
Corrected a bug on Resume Scan in Scanner Software when in Memory Mode

Vers. 3.81.3 12/02/2005
Correct a bug on PTT OFF for Windows 98.

Vers. 3.81.4 19/03/2005
Corrected initialization of driver audio from external driver.

Vers. 3.82.0 16/05/2005
Now the registration for free version is not obligatory.
Changed the Level 1 with free version and Level 2 with full version.

Vers. 3.90.0 22/09/2005
Support for BKTExtension.dll ver. 1.10.0.
Correct calculation time TX when the RTX is sent in TX by the external program.
Close the active plug-in to the exit of the program.
Reflect the commands of the BKTExtensions to theactive Plug-in.
Added the support for the execution of Plug-In.
Added the scale of tuning on the job frequency.
Added tab with the tuning scales the separated for bands.
Improved software scan.

Vers. 3.90.1 24/09/2005
Synchronized the Scanner Software with the tuning scale.

Vers. 3.90.2 28/09/2005
Correct a bug on tuning scale.

Vers. 3.93.0 23/12/2005
Improved tuning bar.
Added delete skeds from dates.

Added auto-delete old skeds on program startup.
Added recursive skeds.

Vers. 3.93.1 31/10/2006
Improved start-up programs.

Vers. 3.93.2 19/11/2006
Improved start-up programs.
Adds the support up to the COM20.

Vers. 4.0.0 10/11/2007
New graphical user interface.
Management of the wheel mouse.
Management right key of the mouse.
Management Band General.
Management Band Stacking.
New routine of Backup/Restore.
New communication engine.
Enable/Disable ToolTips.
Check automatic update.
New management of the RTX memories.
Importat/Export of the memories in CSV format.
Possibility to choose the input and output audio device.

Vers. 4.0.1 15/11/2007
Correct loading full version key.

Vers. 4.0.2 18/11/2007
Correct reding version from BKTExtension.dll.
Update BKTExtension.dll.

Vers. 4.0.3 19/05/2008
Correct a problem in load key.
Improved the compatibility with Windows Vista.

Vers. 4.0.4 07/06/2008
Support for BKTClient version 1.5.

Vers. 4.0.5 19/06/2008
Improved loading registration key.

Vers. 4.0.6 17/08/2008
Improved communication with the external drivers.
Improved management of serial port.
Changed the installation folder.

Vers. 4.0.7 01/09/2008
Improved configuration of external drivers.
Improved control of new versions.
Integrated driver BKTRS232.

Vers. 4.0.8 05/10/2008
Correct updatings control for BKTRS232.
Added support up to COM40.

Vers. 4.0.9 20/10/2008
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. 4.0.10 12/11/2008
Fixed bug in the selection of file to play with AudioRecorder.
Improved compatibility of AudioRecorder with BKTRS232.

Vers. 4.1.0 15/02/2009
Added function Reverse.
Fixed bug in the split.
Fixed bug for RTX IC-706 and IC-706MKII.

Vers. 4.2.0 01/05/2009
Added Scan Preset for managing the preset scans.
Improved the choice of serial port in the program configuration.

Vers. 4.2.1 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. 4.2.2 25/07/2009
Improved ToolTips.

Vers. 4.2.3 07/08/2009
Adapted to the new website www.iz2bkt.com

Vers. 4.2.4 12/08/2009
Improved management of the timer.
Added the total time counter of use of the program.

Vers. 4.2.5 15/08/2009
Fixed a bug to work with the BKTRS232 driver.

Vers. 4.3.0 04/10/2009
Added edit and insert the memory directly from the grid.

Vers. 4.3.1 11/01/2010
Improved the Backup/Restore.

Vers. 4.3.2 11/04/2010
Added control the rights assigned to the installation folder.

Vers. 4.4.0 04/06/2010
Support DDE Server for interfacing with MultiPSK and other programs that use the DDE compatible with Commander and HRD.
Improved Split function.
Improved control program update.
Improved Backup/Restore.
Improved Tune.

Vers. 4.4.5 03/07/2010
Improved AutoCQ function.
Improved communication with the USB interfaces.

Vers. 4.4.6 26/07/2010
Fixed minor bug in using external drivers.

Vers. 4.4.7 18/08/2010
Fixed a bug about restoring the default in configuring limits bandwidth and mode.
BKTExtension7k .dll ver 1.10.1: Correct the version returned by ExtGetVersionDLL ().

Vers. 4.5.0 21/10/2010
Added the Restore Default button in the program configuration.
Added font selection for the main and secondary windows.

Vers. 4.6.0 23/01/2011
Added control on writing rights of the configuration file.
Compiled for compatibility with Windows 2000.

Vers. 4.6.1 26/01/2011
Improved the memory synchronization.

Vers. 4.6.2 28/01/2011
Improved the memory reading.

Vers. 4.7.0 26/03/2011
Added the Polling mode.
Corrected minor problems (rescue position windows, size fields, correction window closure request registration).
Improved calculation of connection speed.
Improved the program startup.

Vers. 4.7.1 29/03/2011
Improved the management of the frequency with the mouse wheel.
Improved the sending of frequency and mode to programs that are linked via BKTExtension or via DDE.

Vers. 4.8.0 29/04/2011
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 in Skeds.

Vers. 4.9.0 30/12/2011
Added the function keys F2 through F9 plus the shift key to change the frequency.

Vers. 4.10.0 06/10/2012
Added control on frequency set by external programs.
Added driver BktDummy for operation in dummy mode.

Vers. 4.11.0 11/11/2012
Changed the management of external drivers for compatibility with Windows 8.

Vers. 4.11.1 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. 4.12.0 23/12/2012
Add BKTClient2.

Vers. 4.12.1 10/02/2013
Improved serial communication.

Vers. 4.13.0 10/03/2013
Added interface minimized.
Improved color management.
Added reset button position windows in Utility.

Added in the TAB Utility the possibility to show/hide the PTT, Audio Recorder and the QuickSet.
Autoload registration key if saved in the program folder.
Fixed some minor bugs.

Vers. 4.13.1 16/05/2013
Fixed some bugs and improved the import of memories from CSV files.

Vers. 4.14.0 01/01/2014
Integrate BktExtension ver. 1.13.0 compatible with BktRemote Suite.

Vers. 4.14.1 11/01/2014
Improved management of the registration key.

Vers. 4.15.0 24/02/2014
Includes BktExtension ver. 1.14.0 with management memories selection.

Vers. 4.15.1 26/07/2014
Includes BktExtension ver. 1.15.0.

Vers. 4.15.2 13/08/2014
Include BktExtension ver. 1.17.0.

Vers. 4.15.3 11/10/2014
Automatic restart after configuration.

Vers. 4.15.4 28/12/2014
Correct trial version for 2015.

Vers. 4.16.0 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. 4.17.0 09/05/2015
Added CAT support for HrdLog.

Vers. 4.17.1 19/07/2015
Support BKTExtension 1.18.0

Vers. 4.18.0 29/08/2015
Adding Custom Key
Support BKTExtension 1.19.0

Vers. 4.18.1 10/10/2015
Support BktExtension 1.20.0

Vers. 4.18.2 03/01/2016
Support BktExtension 1.21.0

Vers. 4.18.3 27/02/2016
View the version in use (Free, Full or Trial)

Vers. 4.18.4 18/08/2016
New version 1.0.1 of OnAir
Correct link to the forum

Vers. 4.19.0 07/10/2017
Support BktExtension 1.22.0 for BktDxCluster Android

Vers. 4.19.1 21/08/2018
Link update

Vers. 4.19.2 02/01/2021
Improved audio device management

Vers. 4.19.3 02/06/2023
Correct key loading for the trial version

Vers. 4.20.0 04/04/2024
Various improvements

Vers. 4.21.0 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. 4.21.1 23/01/2025
Improved LAN protocol

Vers. 4.21.2 29/01/2025
Improved LAN protocol compatibility

Vers. 4.21.3 04/02/2025
Correct command to go to TX from LAN protocol
Improved the communication of the mode to the LAN protocol

Vers. 4.21.4 23/02/2025
Improved LAN protocol for multiple commands

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Program Registration

IC706_BKT

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Program Registration

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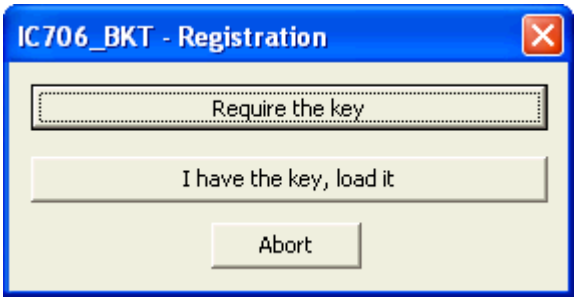

For the information on program registration, please, look on:
https://www.maniaradio.it/en/ic706registrazione.html.

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.IC706_BKT.bkt> key file to the program's installation folder.
Launch the IC706_BKT program.

Method 2:

Save the <call.IC706_BKT.bkt> file attached to the received email (replace "call" with your specified callsign in the registration form) in a folder.
Launch the IC706_BKT 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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Function

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Configuration

Configuration

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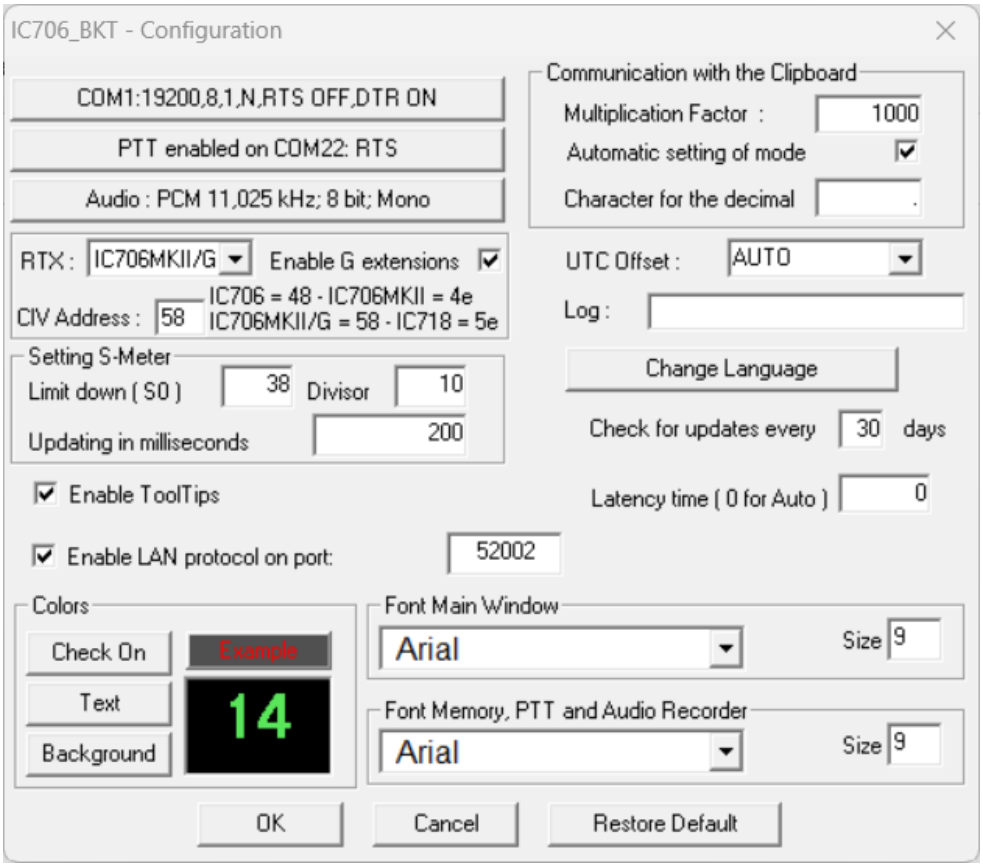

General configuration of the program.
Is important that the values of communication of the serial port and the address CIV that has to exactly correspond with th
CI-V BAUD of the transceiver as Auto.

[COM.....] Serial Port and external driver setting.
[PTT .....] PTT Setting.
[Audio.....] Audio Setting.
[Icom 706 MKII/G] set only if the model IC706MKII/G is used.
[Setting S-Meter] plan the values to make to correspond the value read by the S-Meter of the program with that of the
[Updating in milliseconds] milliseconds of interval between a reading and the following one of the S-Meter, this value is au
[Colors] Choose the colors for display and the keys.
[Font Size] Font size for the frequency display.
[Comunication by the Clipboard] allows to repair the parameters for a correct exchange of the data with the programs DX
[UTC Offset] points out the bewilderment in times among the time UTC and that local. If put to [Auto] for the calcu
[Log] Generally must be let empty, point out the name of a file in which to save the Log of exchange date
If put to 0 the timeout of communication is not checked between the RTX and the program, otherwise to plan a value in se
sent to the RTX.
[Change Language] select the language.
[Enable ToolTips] Enable the help ballons
[Enable LAN protocol on port] Enable the TCP communication protocol on the specified LAN port. This feature includ
[Check for updates every] Interval of days for the automatic control of possible updatings of the program. If put to
[Latency time (0 for Auto)] Work time in millisecondi, set to zero for the automatic calculation to the start. A too low late
down the reading of the data of the rtx.
[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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COM Setting

Configuration

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COM Setting

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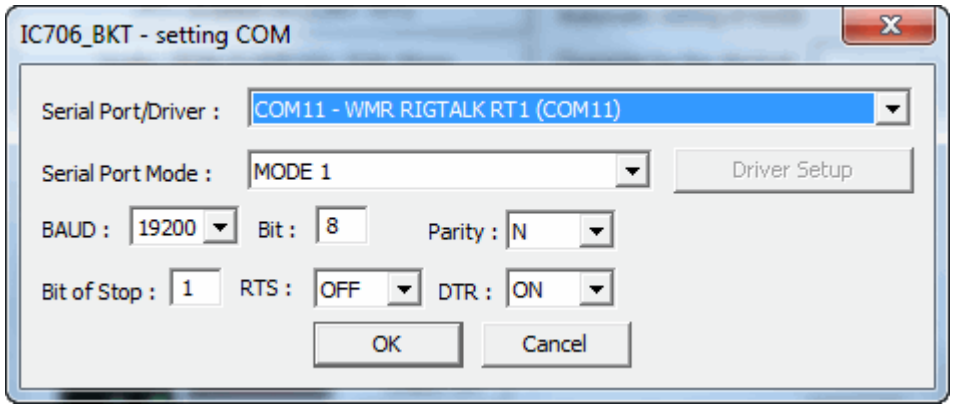

These parameters are essential for a good operation of the program.

If you have other interfaces connected on the same serial ports (es. interfaces for PSK31), it **needs RTS or DTR to OFF** to avoid to send in transmission the RTX when he enters the program.

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

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

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

If there are connection problems try this:

- Change the [Serial Port Mode]
- Change the RTS and/or DTR
- Down the connection speed from 19200 to 9600 BAUD or lower
- Try to use BKTRS232 driver

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PTT Setting

Configuration

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PTT Setting

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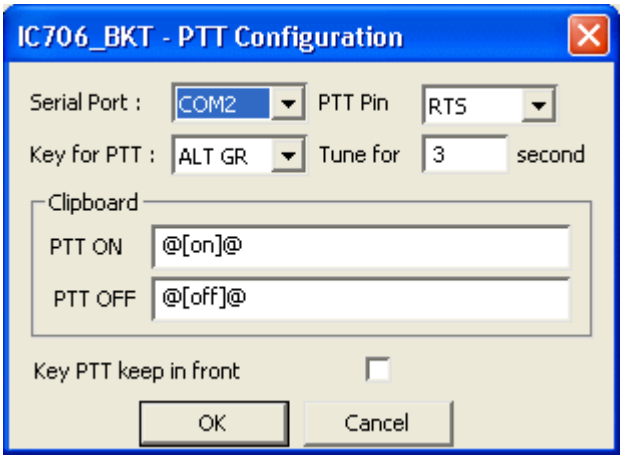

Configuration of the management of the PTT, that is the possibility to send the RTX in transmission through the program. To make to work the PTT needs to have an interface for digital ways (es PSK31) or to build the circuit visible in the section connection.

[Serial Port]	serial ports of the PC to which the circuit PTT is connected, can be the same one of the program.
[PTT Pin]	pin of the serial port to which the circuit PTT is connected.
[Key for PTT]	select the key to use for PTT.
[Tune]	max time for tuning.
[Clipboard]	if the sequence of characters
[PTT ON]	is copied in the clipboard of Windows, the RTX is sent in transmission.
[PTT OFF]	it is the sequence to put the RTX in reception.
[Key PTT keep in front]	if activated, the key PTT is always maintained in front of all the other windows.

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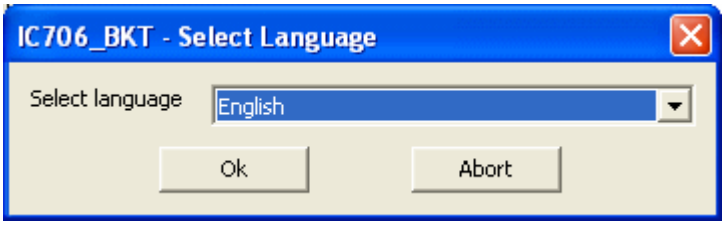
Language selection

Configuration

Language selection



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

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Limits

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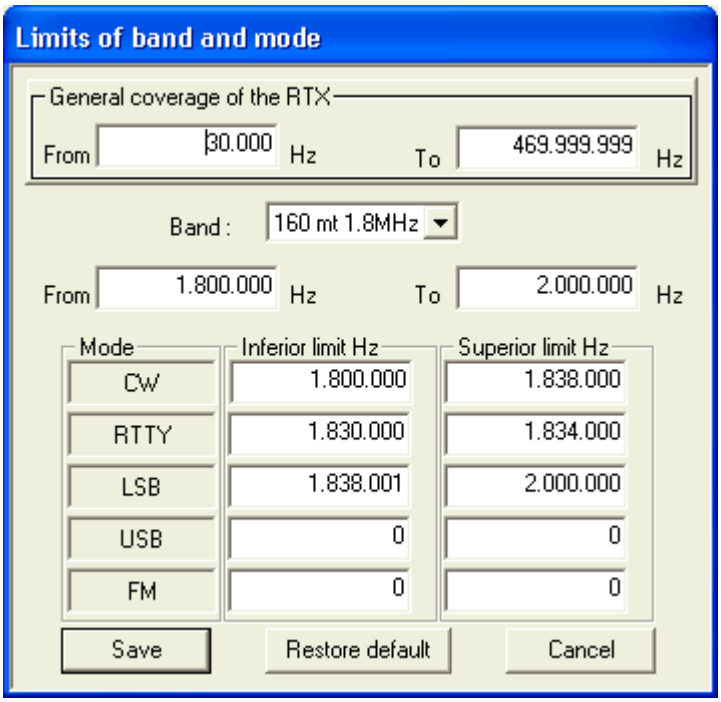

From this mask it is possible to define the limits of coverage for the RTX and for every radioamateur bands.

ATTENTION: all the values of frequency are in Hz.

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Audio Setting

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Audio Setting

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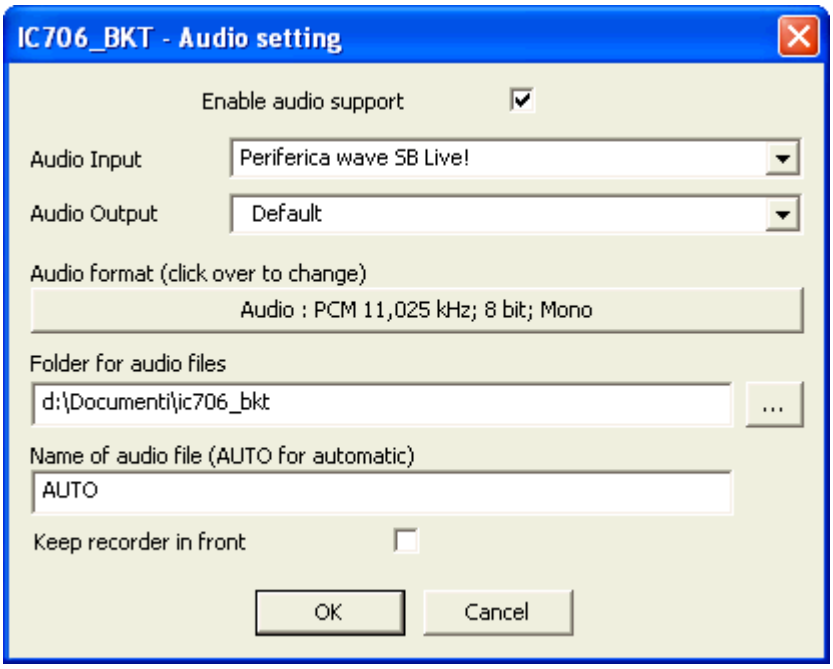

[enable/disable the audio support
E
n
a
b
l
e
a
u
d
i
o
s
u
p
p
o
r
t
]

[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] it allows to choose the format audio to use during the recording. To record vocal communications, suggestion to install a CoDec MP3 and to choose the inferior quality. With the visible configuration in figure, a hour of recording occupies around 3,5Mb of disk. To record digital communications is worthwhile to use the PCM format, in this case the occupation on disk will be very high. The format of the files audio is WAV and is compatible with the Windows Media Player.

[Folder for audio files] to point out the folder where the files audio will be saved. If the field is empty, is 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 BKTyymmddhhmmss.WAV, where yy=year, mm=month, dd=day, hh=hour, mm=minute and ss=second of beginning recording.

[Recorder keep in front] if activated, the Audio Recorder is always maintained in front of all the other windows.

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Programs startup

Configuration

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Start programs

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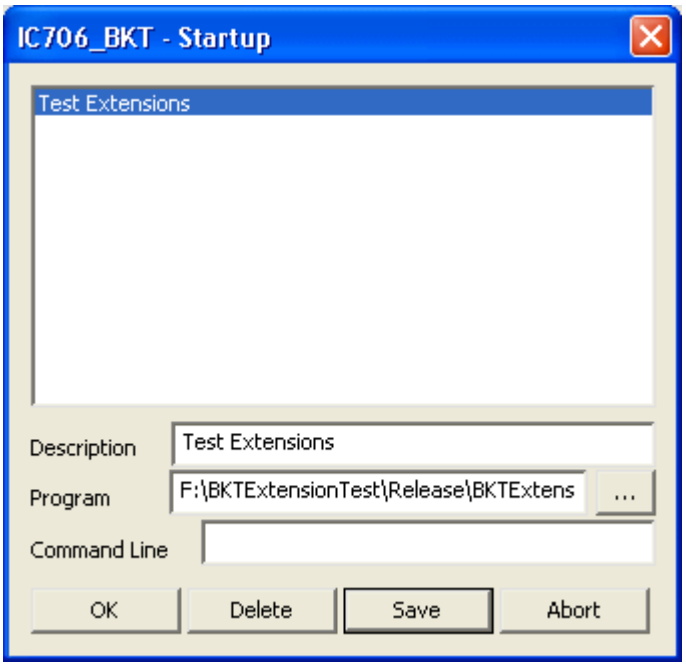

The programs specified in this window will be started to the start of IC706_BKT.
For every program to introduce:
Description: description of the program
Program: program inclusive of path, ex. c:\windows\notepad.exe
Parameters: parameters for the program
[...] find the program
[OK] closes the window saving the possible changes
[Delete] delete the selected program
[Save] saves the introduced data
[Abort] closes the window without saving the possible changes

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Utilities

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Utilities

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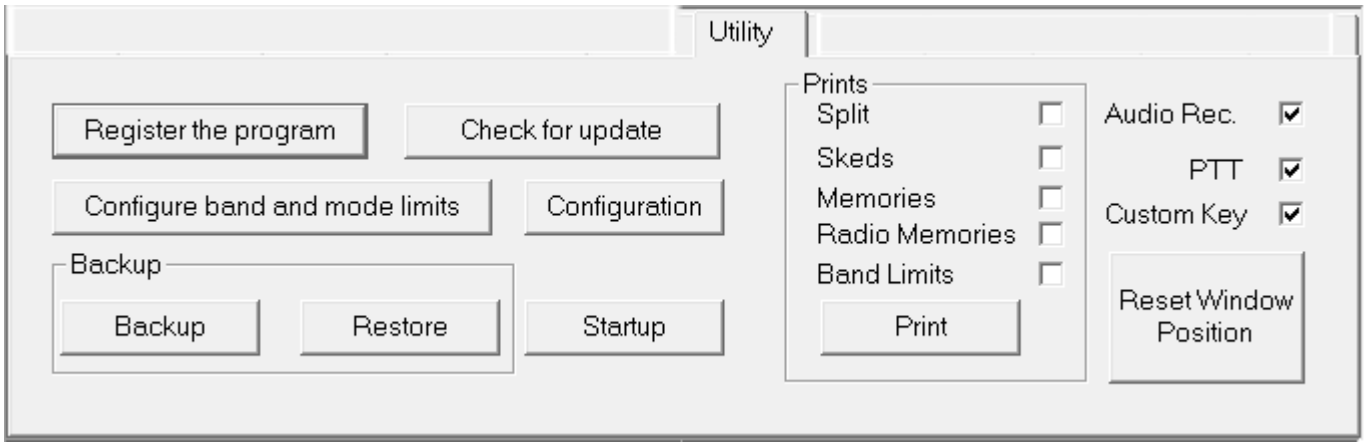

[Register full version] Connect to web site for the registration of the program
[Check for update] Controls if there are new versions of the program (require active Internet connection)
[Configuration] Configuration of the program
[Startup] Select the programs for running with IC706_BKT
[Configure limits of band and mode] Configure limits of band and mode
Backup
Save the Split, Skeds, Memories and Limits of band and mode in the file IC706_BKT.ZIP.
[Restore] Restore the dats from a file of backup
Prints
Mark the files that are wanted to stamp and to press the key [Print]

[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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Main Window

Function

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Main Window

Top

In the main window they are present the commands of great use, **stopping itself with the mouse on a key a Tool Tips appear with the description of the command, while, click with the mouse right key on the Tuning Bar to input t numerically**.

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

As to change frequency:

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

Information on the main window:

- Date and hour in local format and UTC.
- Information on the Radio station and Operator.
- Tuning bar. Click and drag the pointer to change frequency. The bar will become of red color when the RTX is syntonize radioamateur bands. Click with the mouse right key for numerical input of the frequency.

Keys:

All the keys are easily identifiable, signal:

[Main]

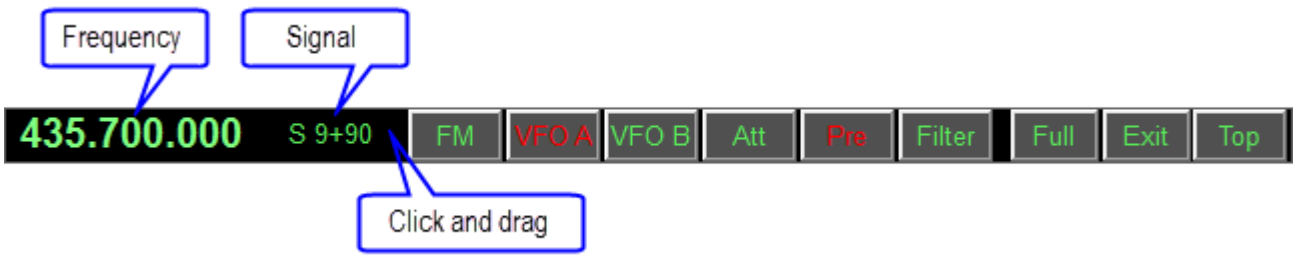
disable Polling.
[Store R.] Memorizes the active values (frequency, operational mode, etc…) in one of the Radio Memories.
[Store] Memorizes the active values (frequency, operational mode, etc…) in one of the PC Memories.
[Band Stacking] Saves/Recalls frequency and operating mode from the operating stacks.
[Help] Visualizes this guide.
[Exit] Exits from the program.
[Hook Clipboard] Enable/disable the elaboration of the data of the clipboard of Windows.

G Extensions
The section 706MKIIG appear only if an Icom IC706MKII/G or IC718 is used and manages the new functions CI-V added ICOM in this models.

[On/Off] Enable/disable the SMeter. Can be necessary to disable the SMeter if a particularly slow computer is use avoiding decelerations in the operations.
[DUP Set] Set the value of the mode Duplex, activate with DUP + and DUP -. It is not possible to notice from the RT Duplex is planned.

Note: these commands vary second the model of the RTX.

INTERFACE MINIMIZED:



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

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Hook Clipboard

Function

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Hook Clipboard

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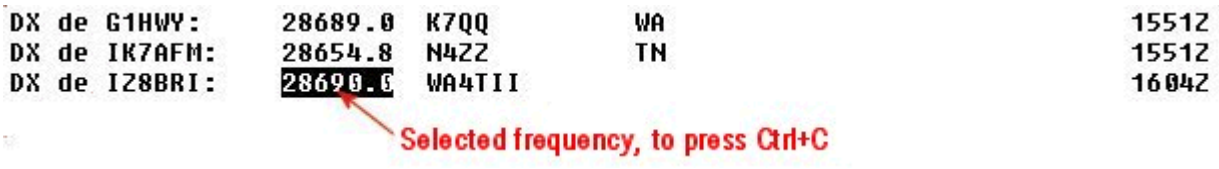
To activate the Hook Clipboard means to intercept the data that are copied in the clipboard of Windows through the command Copy or pressing CTRL+C after having selected a text. After having intercepted them, they are analyzed and, if considered valid, that is that they contain an inclusive number in the range of frequency of the Icom 706, 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) Wwhen it passes an interesting spot, select the frequency and press the keys Ctrl+C, the RTX will be planned on this frequency.



For a correct exchange of data it is necessary to correctly shape the parameters of the program 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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Split

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Split

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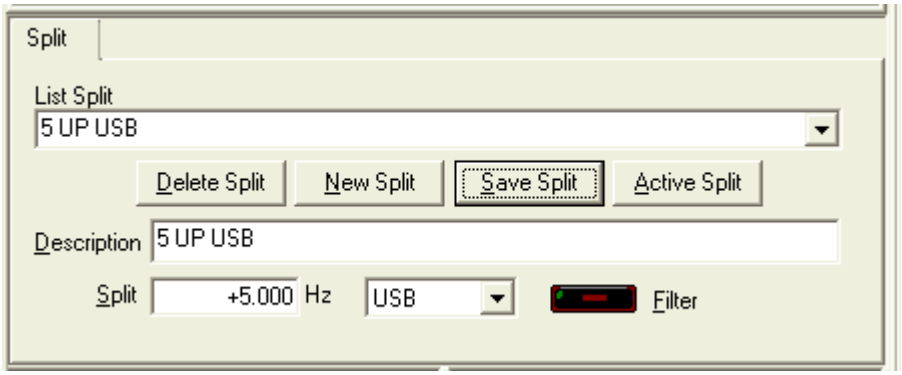

It allows of setting the splits, that is, the possibility to receive and to transmit on two different frequencies inside the same band.

With the key [Active split] the bewilderment of the frequency in use is calculated and planned on the according to VFO that will be used only in transmission. To deactivate the Split to use the relative key on the principal mask.

ATTENTION: the frequency of split is in Hz.

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Memories

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Memories

Memories

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Memories

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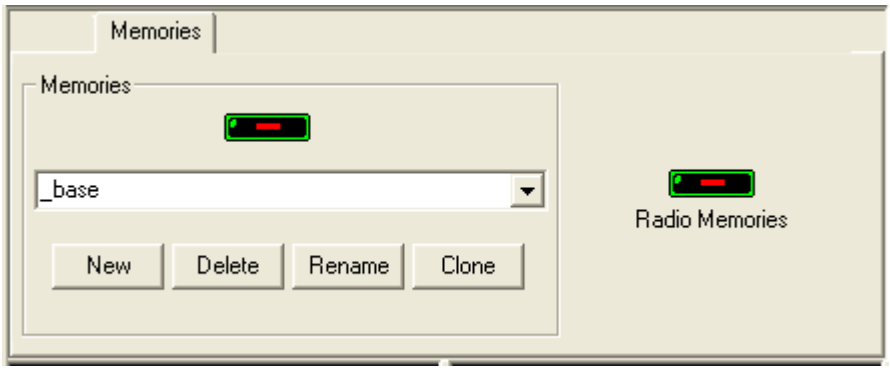

From this panel it is possible enable/disable the visualization of the masks of management memories.

[Memories] to manage a database of the memories on PC, doesn't have l allows a total management of the values to memorize.
These memories can be divided in groups:
[New] Creates a new group of memories
[Delete] Cancels the selected group of memories
[Rename] Changes name to the selected group of memories
[Clone] Duplicates the selected group of memories

[Memories of RTX] to manage only the 99 memories of the RTX.

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Memories PC

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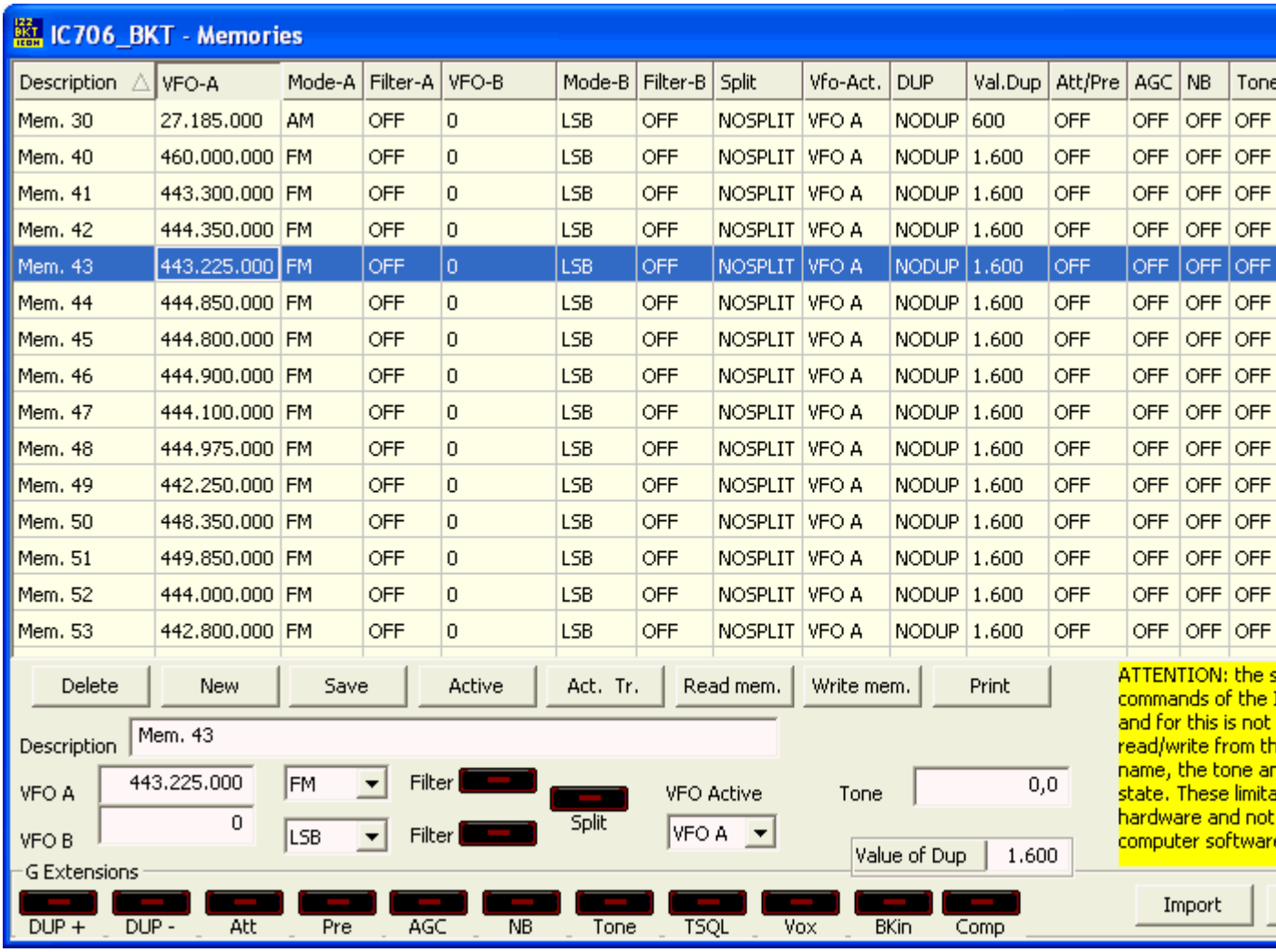
Memories PC

Memories PC

Memories PC



Click on the description of the column, you can change sorting display of memories (e.g. VFO, description, mo

Double-click the cell to edit.

All the parameters are memorized in a file of the PC. For every memory is saved a description, the state of the VFO-A. an
Split, and for the version 706MKII/G, the state of the visible commands in the relative section.

[Delete] delete the selected memory.
[New] clear the input for insert a new memory.
save the selected memory.
[Active] transfers the values of the selected memory in the VFOs of the RTX.
[Act. e Tr.] activates the selected memory and it saves it in one of the 99 memories of the RTX.
[Read mem.] sequentially reads the memories of the RTX and it memorizes her assigning the name Mem. [nn], where
memory read. **ATTENTION: it is not possible to read the name of the memories memorized in the**
and the value of the tone, this not for a lack of the program, but for the limited remote controls
[Write mem.] writes all the memories whose name begins with Mem. [nn] in the memory number [nn] of the RTX. Poss
memory [nn] of the RTX will come replaced.
[Print] prints all the memories as you visualize in the grid.

The voice Tone is alone indicative and cannot be managed through the interface CI-V.

View also Memories Radio

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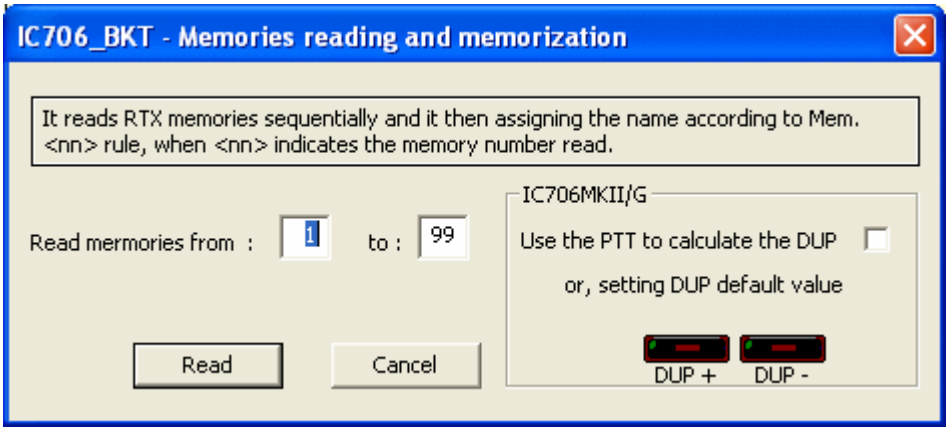
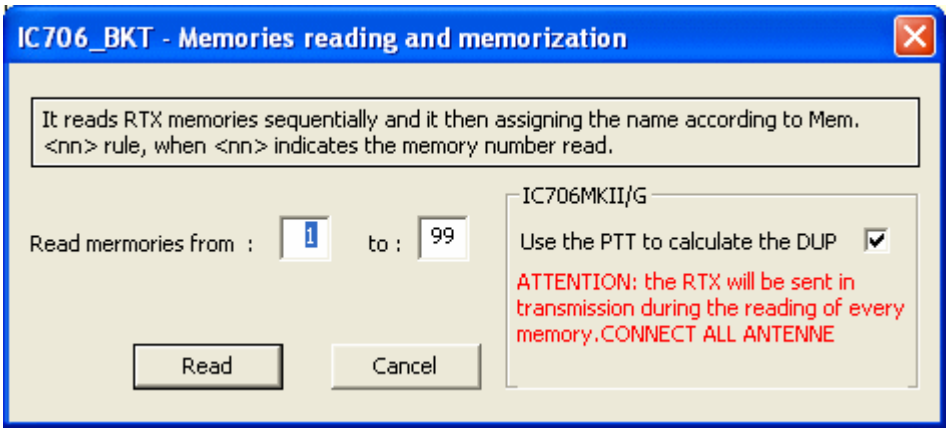
Memories PC

Reading Memories



It is possible to sequentially read the memories of the RTX and to move her to the database of IC706_BKT. Considering that it is not possible to read the name of the memories, to every read memory its assigned the name Mem [nn] where nn is the number of the memory. For the model IC706MKII/G it is possible to point out a default setting for the DUP, or if the function PTT has been activated in the configuration of the program, it is possible to automatically calculate the DUP sending the RTX in transmission.
Attention: selecting the voice [Use PTT to calculate the DUP], during the reading of the memories, the RTX will be sent in transmission, therefore it is Essential that the antenne are correctly connected for avoiding damages to the same RTX.



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Group Memories

Memories PC

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Group Memories

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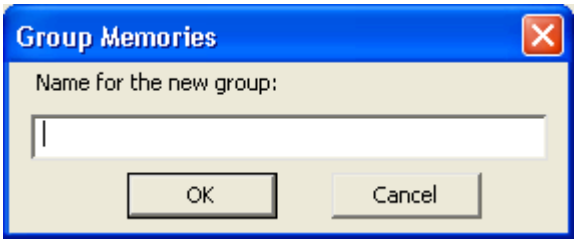
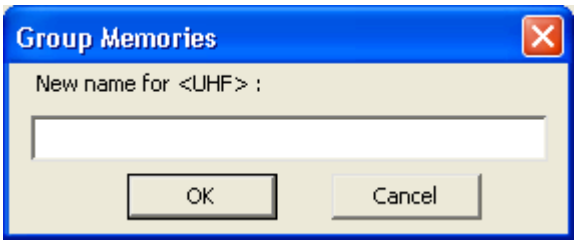


Specify the name of a new group of memories.



Specify the new name for the group of memories comprised between <>.

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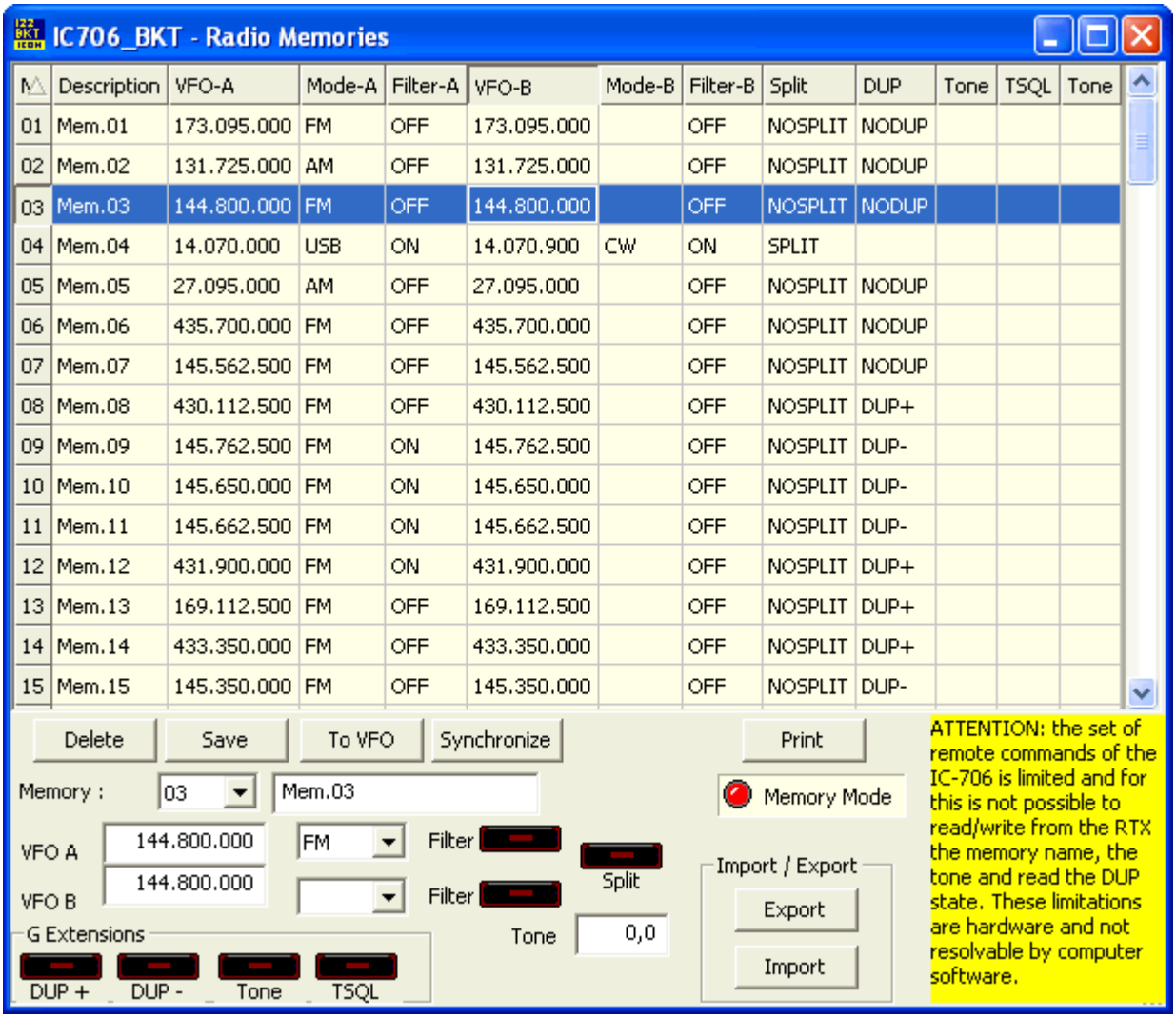

M	Description	VFO-A	Mode-A	Filter-A	VFO-B	Mode-B	Filter-B	Split	DUP	Tone	TSQL	Tone
01	Mem.01	173.095.000	FM	OFF	173.095.000		OFF	NOSPLIT	NODUP			
02	Mem.02	131.725.000	AM	OFF	131.725.000		OFF	NOSPLIT	NODUP			
03	Mem.03	144.800.000	FM	OFF	144.800.000		OFF	NOSPLIT	NODUP			
04	Mem.04	14.070.000	USB	ON	14.070.900	CW	ON	SPLIT				
05	Mem.05	27.095.000	AM	OFF	27.095.000		OFF	NOSPLIT	NODUP			
06	Mem.06	435.700.000	FM	OFF	435.700.000		OFF	NOSPLIT	NODUP			
07	Mem.07	145.562.500	FM	OFF	145.562.500		OFF	NOSPLIT	NODUP			
08	Mem.08	430.112.500	FM	OFF	430.112.500		OFF	NOSPLIT	DUP+			
09	Mem.09	145.762.500	FM	ON	145.762.500		OFF	NOSPLIT	DUP-			
10	Mem.10	145.650.000	FM	ON	145.650.000		OFF	NOSPLIT	DUP-			
11	Mem.11	145.662.500	FM	ON	145.662.500		OFF	NOSPLIT	DUP-			
12	Mem.12	431.900.000	FM	ON	431.900.000		OFF	NOSPLIT	DUP+			
13	Mem.13	169.112.500	FM	OFF	169.112.500		OFF	NOSPLIT	DUP+			
14	Mem.14	433.350.000	FM	OFF	433.350.000		OFF	NOSPLIT	DUP+			
15	Mem.15	145.350.000	FM	OFF	145.350.000		OFF	NOSPLIT	DUP-			

Management of the 99 memories of the RTX.

Click on the description of the column, you can change sorting display of memories (e.g. VFO, description, mode, etc...).

Double-click the cell to edit.

[Delete] Delete the selected memory, if Memory Mode is enabled also the RTX.
[Save] Save the current memory.
[Print] Print the memories as visualized in the grid.
[Syncronize] Synchronize this memory bank with the RTX.
[Memory Mode] Put the RTX in Memory mode and enable the selected memo

View also: Memories PC

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Memories Synchronization

Memories Radio

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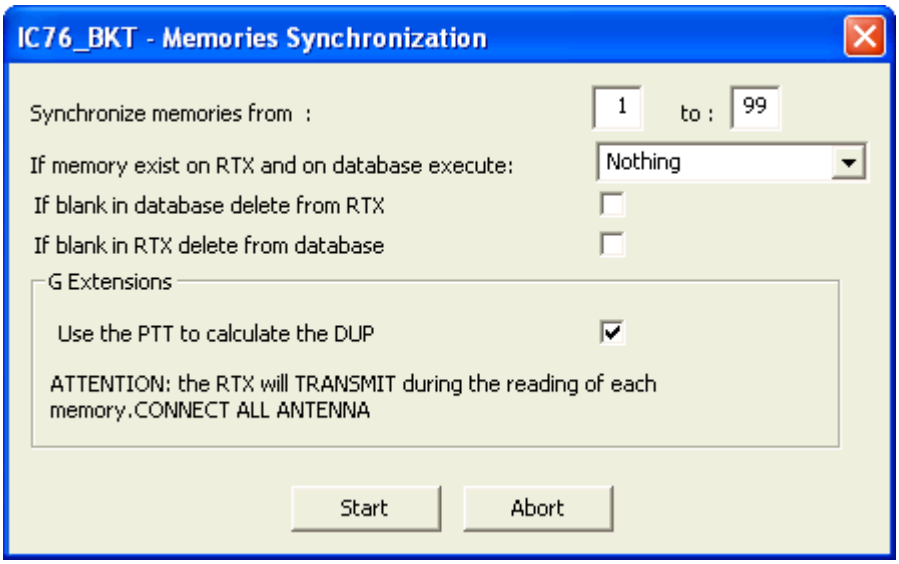
Memories Synchronization



Synchronization is to align the content of the database program memories with memories of RTX.

[Synchronize memories from] Select the range memory 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

- Nothing = leaves unchanged the database and the RTX
- Overweite 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 empt**
[If blank in RTX delete from database] **If the memory in the RTX is empty it wil**
[Use the PTT to calculate the DUP] **Switch the RTX in trasmission for calculate the DU**
memories, the RTX will be sent in transmission, therefore it is correctly connected for avoiding damages to the RTX.

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Memory Import / Export

Memories

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Memory Import / Export

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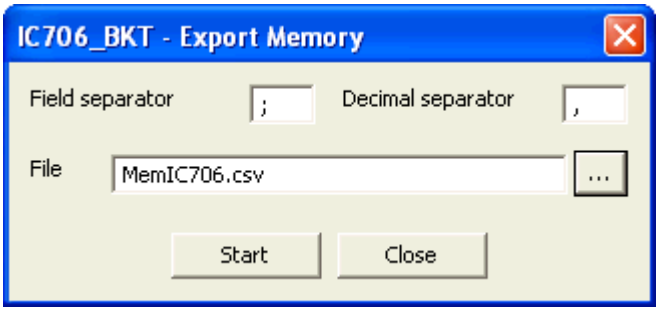

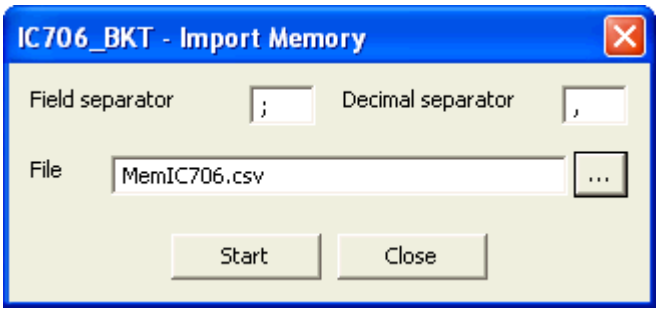

Import or Export the memory in a CSV format file. The format CSV can be used with Microsoft Excel.

[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

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Scanner

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Scanner

Scanner

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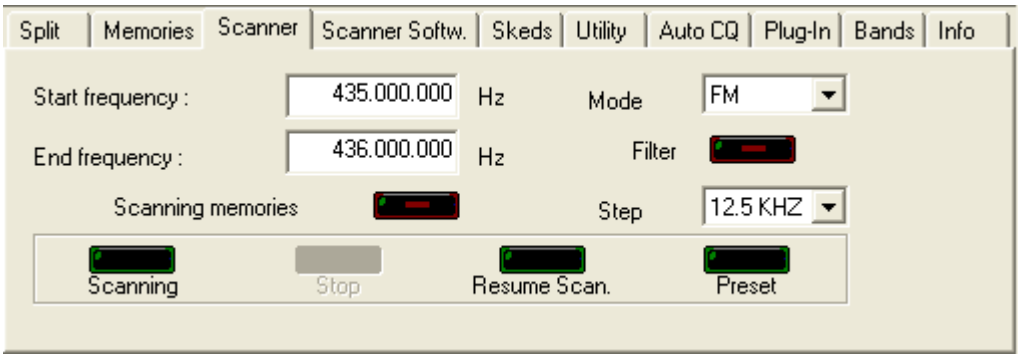

Performs the cyclical scanning among 2 frequencies, or among the active memories of the RTX. The speed of scanning and the restart are alone setting from the RTX through the initial mode Set holding pressed the key [LOCK] while it is power on the rtx.

Click Preset to manage the database of pre-set scan.

ATTENTION: all the frequencies are in Hz.

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Scanner Software

Scanner

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Scanner Software

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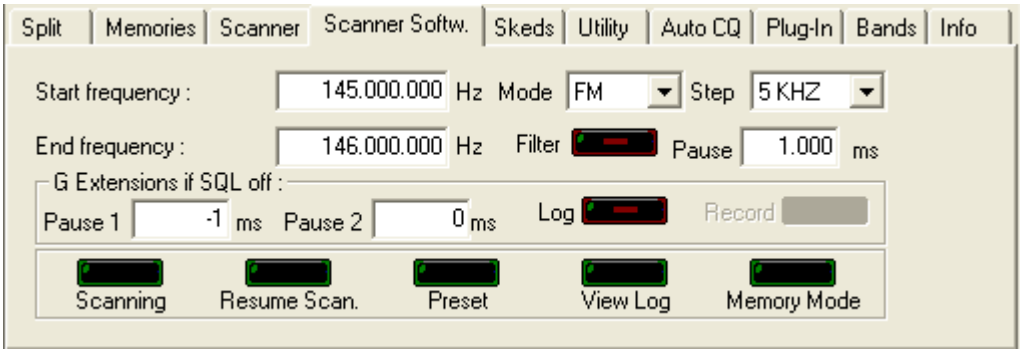

Performs a cyclical scanning among two frequencies unlike the configuration of the program.

[Pause] Pause in milliseconds before passing to the next frequency

IC706MKII/G if SQL off:

[Pause 1] Time of attended in milliseconds after having noticed a sign
0 = it attends up to that SQL passes in ON, that is up
-1 = ignore the SQL

[Pause 2] Time of pause in milliseconds before passing to the followir has returned ON.

[Log] Enable/disable scanning log. IDD_DLGLOGSQL

[Record] Enable/disable the recording audio while the scanning. The audio support is active.

[Scanning] Resets the log and begins a new scanning

[Stop] Interrupts the scanning

[Resume Scan] Resume the scanning departing from the frequency on the data to the log.

[Preset] Management database pre-set

[View Log] View the scanning log

[Memory Mode] Select scanning from memories

[Frequency Mode] Select scanning from frequency

ATTENTION: all the frequencies are in Hz.

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Scanning Log

Scanner

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Scanning Log

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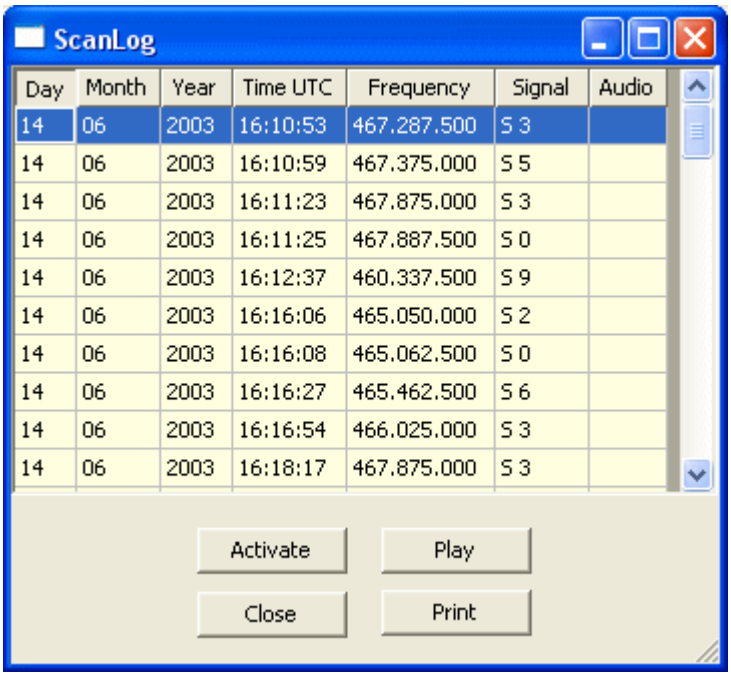

From the scanning software, if I activate, memorized in a file of log date, time, frequency in Hz and power of the signal, besides, if activated, the communication is recorded.

[Activate] Activate the selected frequency.
[Play] Play the recording of the selected line.
[Close] Close the windows of log.
[Print] Print the grid.

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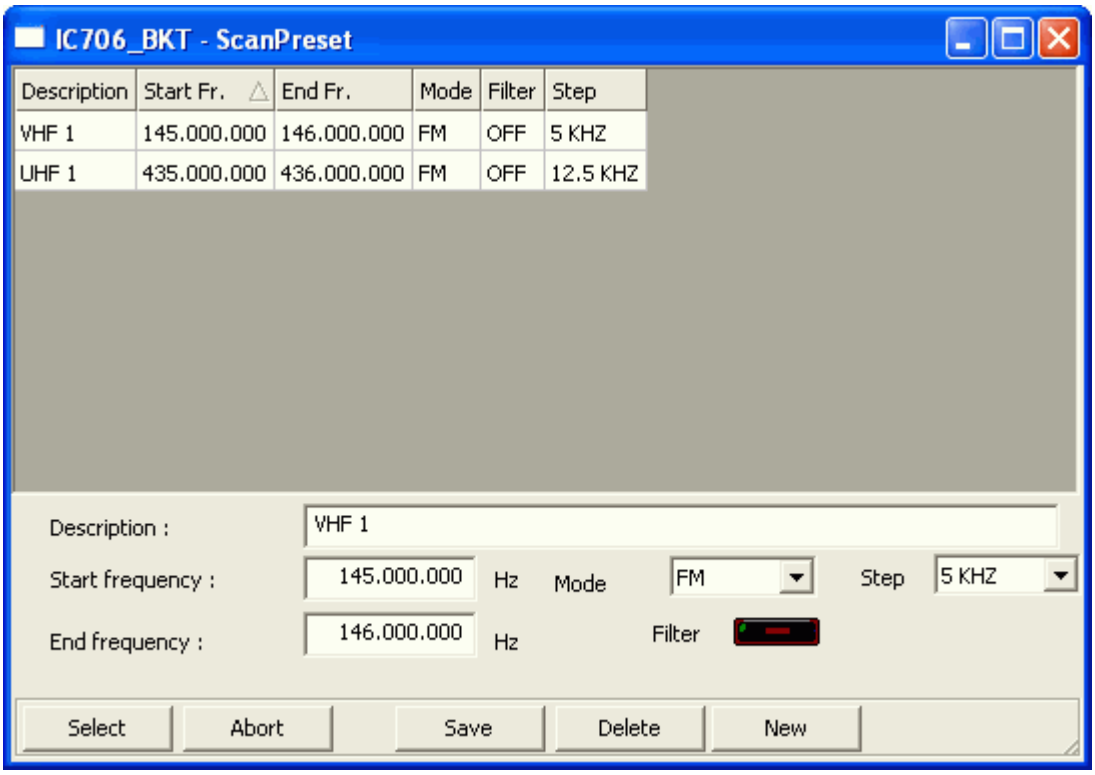
Scanner Preset



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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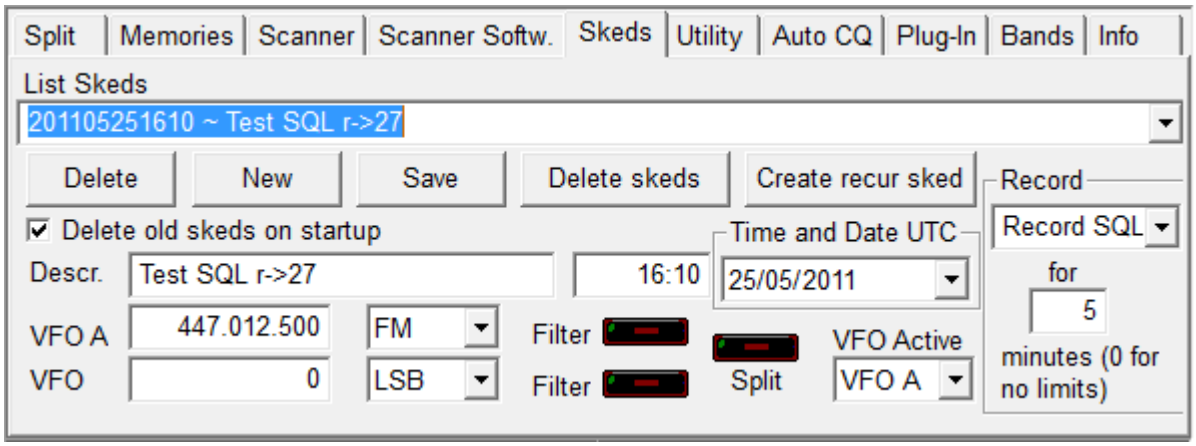

Allows to program the activation of frequencies and modes in dates and pre-arranged schedules.
Thirty seconds before the programmed activation a message of warning that allows to annul the planning will appear.
All the plannings are in date and time UTC and the frequencies in Hz.
For a correct operation of this function it is essential that the RTX is power on in the moment of the programmed activation

[Delete skeds] Delete skeds programmed among the specified 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

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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Sked Activation

Skeds

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Sked Activation

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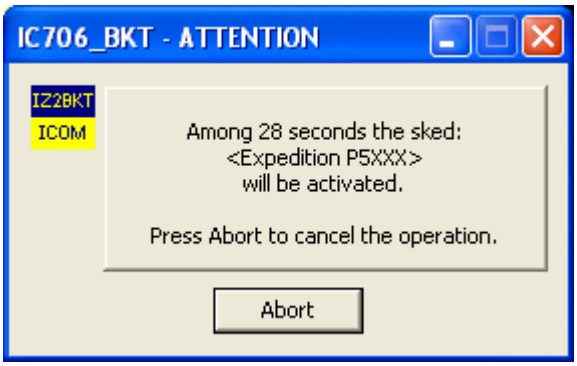

It is possible to interrupt the activation of a sked pressing [Abort].

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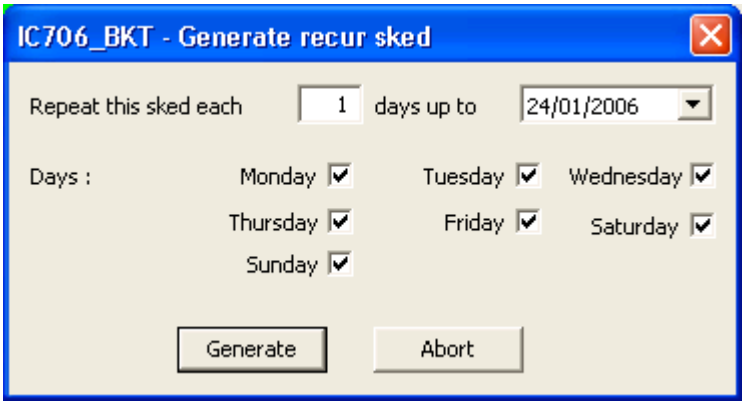
Create recur skeds



To use in order to generate automatically one series of skeds with the current values of frequency and VFO.
To the description of every skeds it comes added “r->nn” where nn it is the number of the recurrence.

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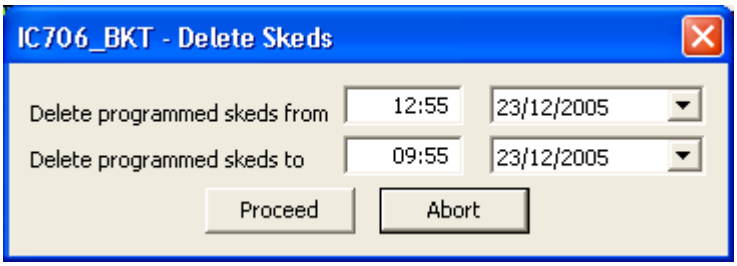
Delete skeds



Delete all skeds programmed among the specified dates.

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AutoCQ

Function

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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.
[Play] If activated the PTT, sends the RTX in transmission and it rep
phrase.
[Loop] If activated the PTT, sends the RTX in transmission and it rep
sentence. Re-push the key for interrupt immediately the repro
[Loop pause] Pause in second between the reproduction of a phrase and th

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Custom Key

Function

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Custom Key

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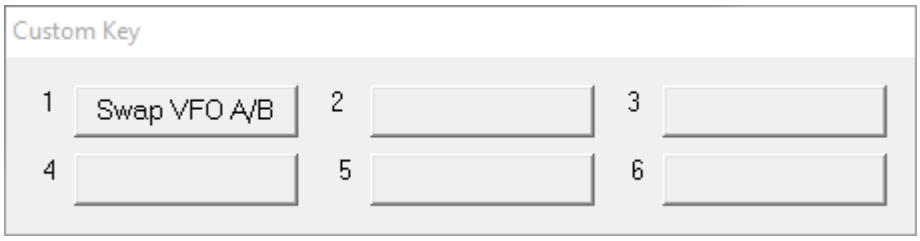
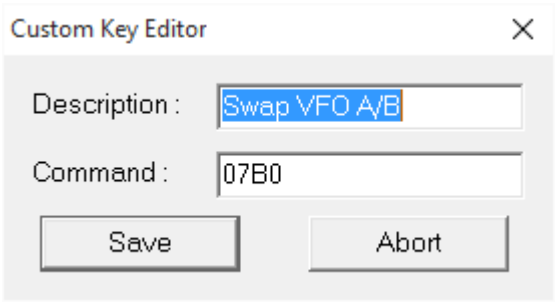


The Custom Keys are programmable keys with CI-V commands (for a list of commands CI-V, see the manual RTX)

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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Plug-In

Plug-In

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Plug-In

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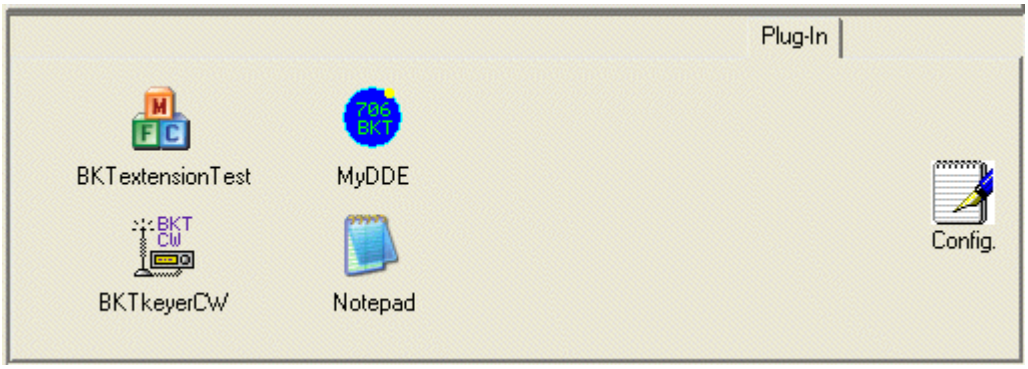

Use Config. to add, remove or modify Plug-In.

The Plug-in they are additional programs of support to IC706_BKT, however it can be added, as Plug-in any program (in screens has been added Notepad of windows).

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Plug-In Mangement

Plug-In

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Plug-In Mangement

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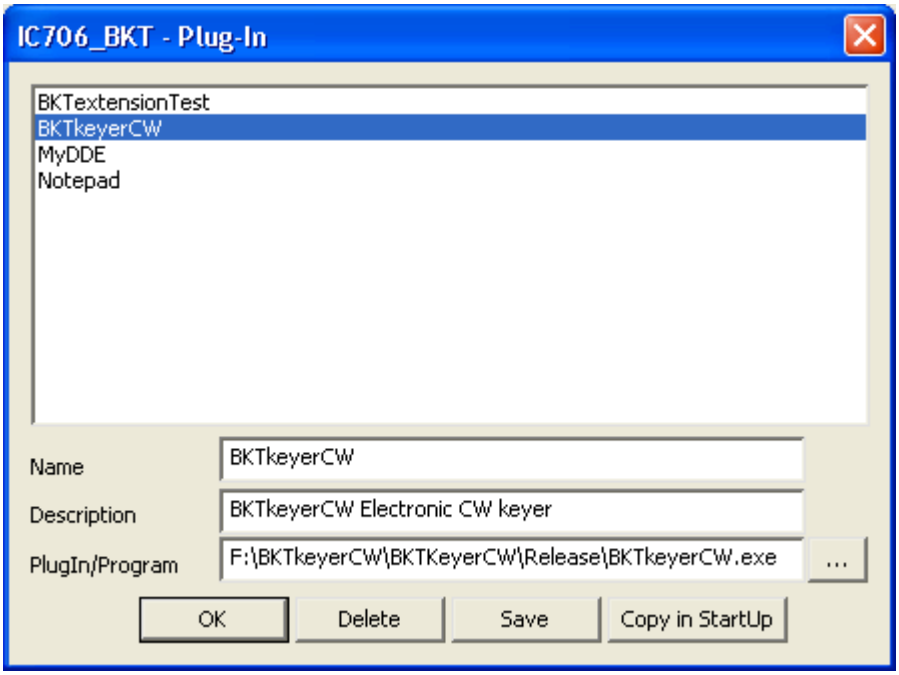

Configuration of Plug-In.

[Name] **used Name of Plug-in like description of the relative key**
[Description] Description of the functions of Plug-in
[PlugIn/Program] Line of execution of Plug-in
[...] Look in the folders to the search of Plug-in

[OK] Return to the program
[Delete] Remove from the selected directory Plug-in (does not cancel Plug·
[Save] Save the modifications carried out to Plug-In selected
[Copy in StartUp] Copy Plug-in selected in the group of programs Start and will com IC706_BKT start

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OnAir

Funzioni

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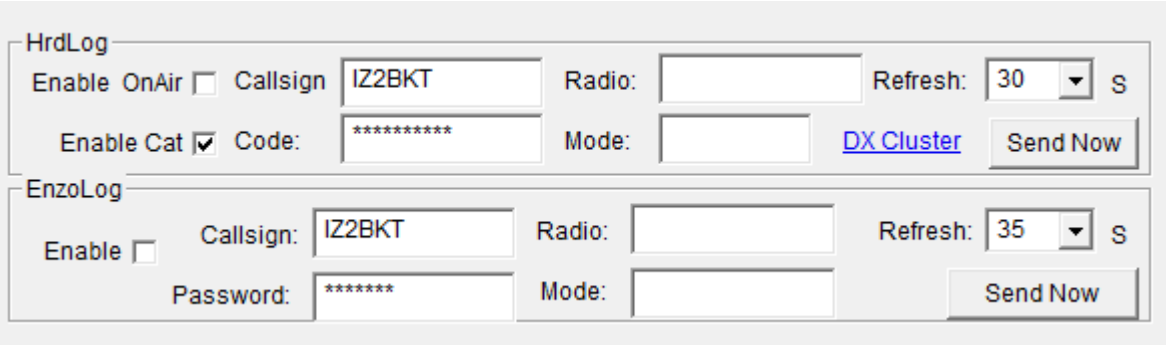
On Air

Primo Precedente Prossimo



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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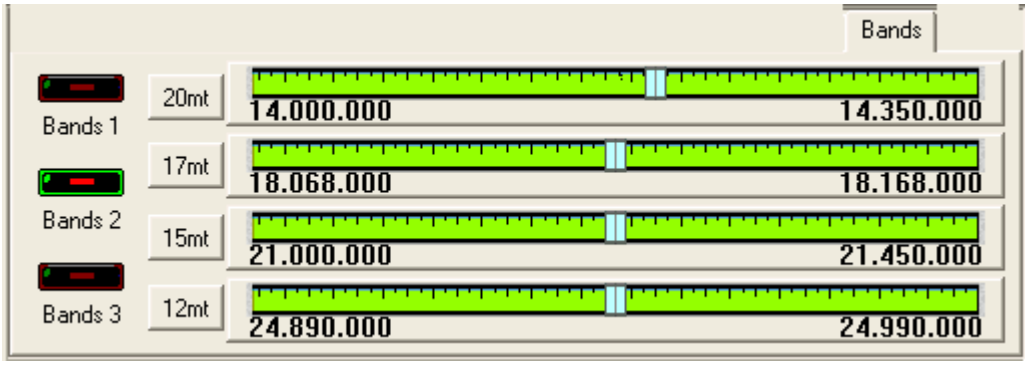
Bands

Bands



It visualizes the radioamateurs bands separated 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 - 2mt and 70cm

Click on the pointer of tuning in order to enable the relative band.
Click with the right key on the pointer in order to specify one new frequency.

To modify the values of the bands, use configure the Limits of band and mode.

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PTT

PTT

It's possible to manage the PC PTT if an interface is available for digital modes, or, if the simple circuit brought above has been built.

Click on the microphone to commute transmission on/off, or, if configured in the configuration, to press the space bar.

[Setup] Configure PTT
[Tune] Switch in AM mode and put TX On for the seconds configurated
[Reset] Reset TX time count

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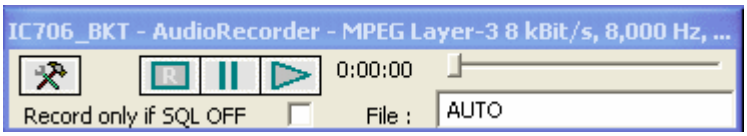
Audio Recorder

Audio Recorder



The AudioRecorder allows to directly record from the RTX to the PC.
For a correct operation it needs to connect the card audio of the PC with the RTX (see audio interface), for the recording, is very important a correct choice of the CoDec (see audio setting).

Open the audio setting.
Start/stop the recording.
Break/resume the recording or the play.
Start/stop the play..

[Record only if SQL OFF] if I activate, it starts the recording only in presence of a signal (SQL OFF) and suspended when the signal interrupts (SQL ON), it works only with the model 706mkII/G.

[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.

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Various

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Select VFO

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Select VFO Top Previous Next

It is not possible to currently read through the interface CI-V the VFO in use, for which it is necessary to manually point out pressing on the relative key.

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Comunication Error

Various

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Comunication Error

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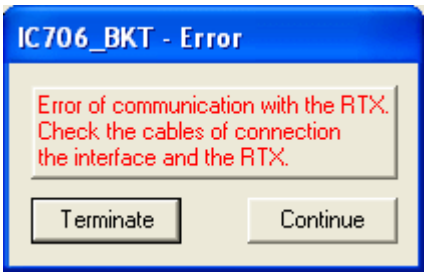

This message appears if the time of timeout has been old before the answer of the RTX to a command. The problem is given by the missed communication among the PC and the RTX.

View COM Setting for more information.

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Band Stacking

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Band Stacking

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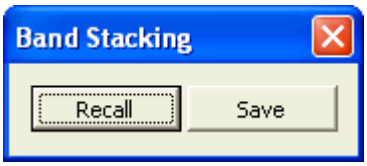

[Recall] Loads frequency and operating mode previously saves in this operating stack
[Save] Saves frequency and operating mode in the operating stack chosen

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

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Progress Indicator

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Progress Indicator

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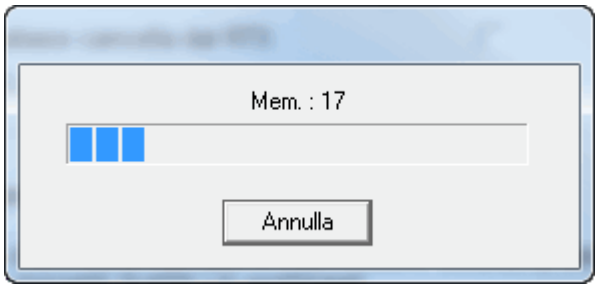

Progress of the operation in course.

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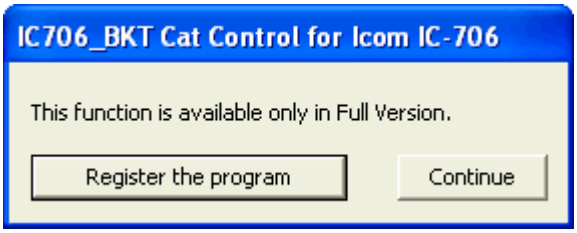
Full Trial Function

Various

Full Trial Function



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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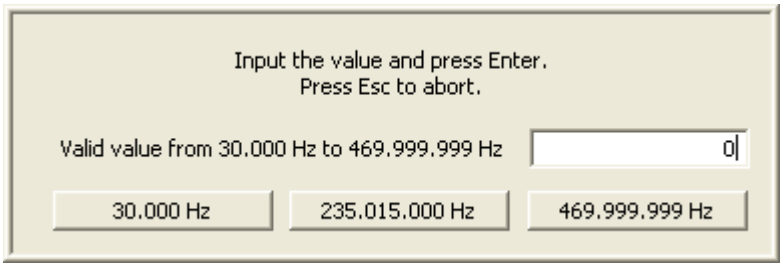
Numerical Input

Various

Numerical Input



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

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OFF-LINE Mode

Various

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OFF-LINE Mode

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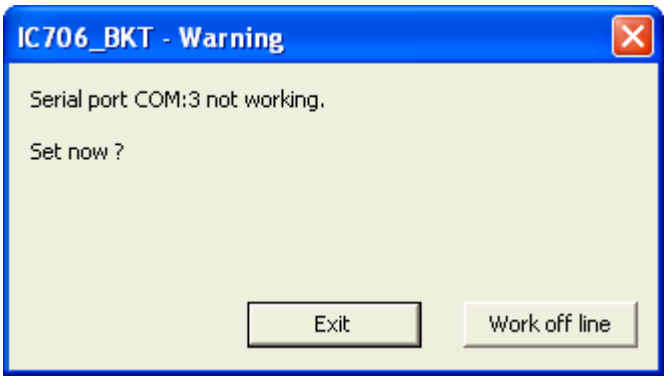
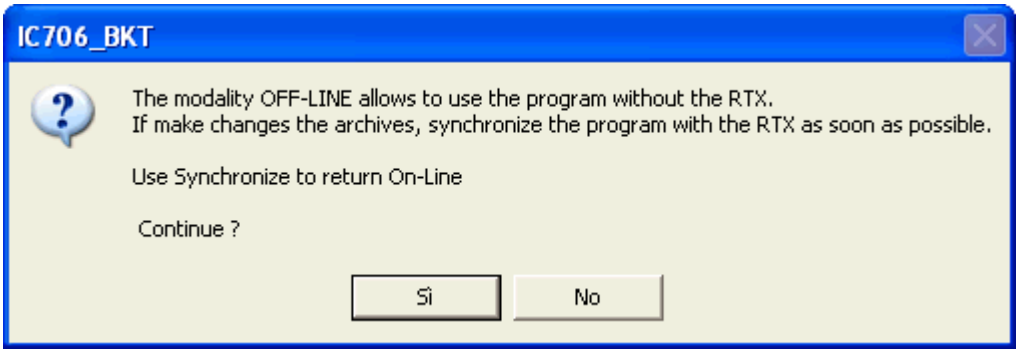


Error from the serial port COM specified in configuration.

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



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

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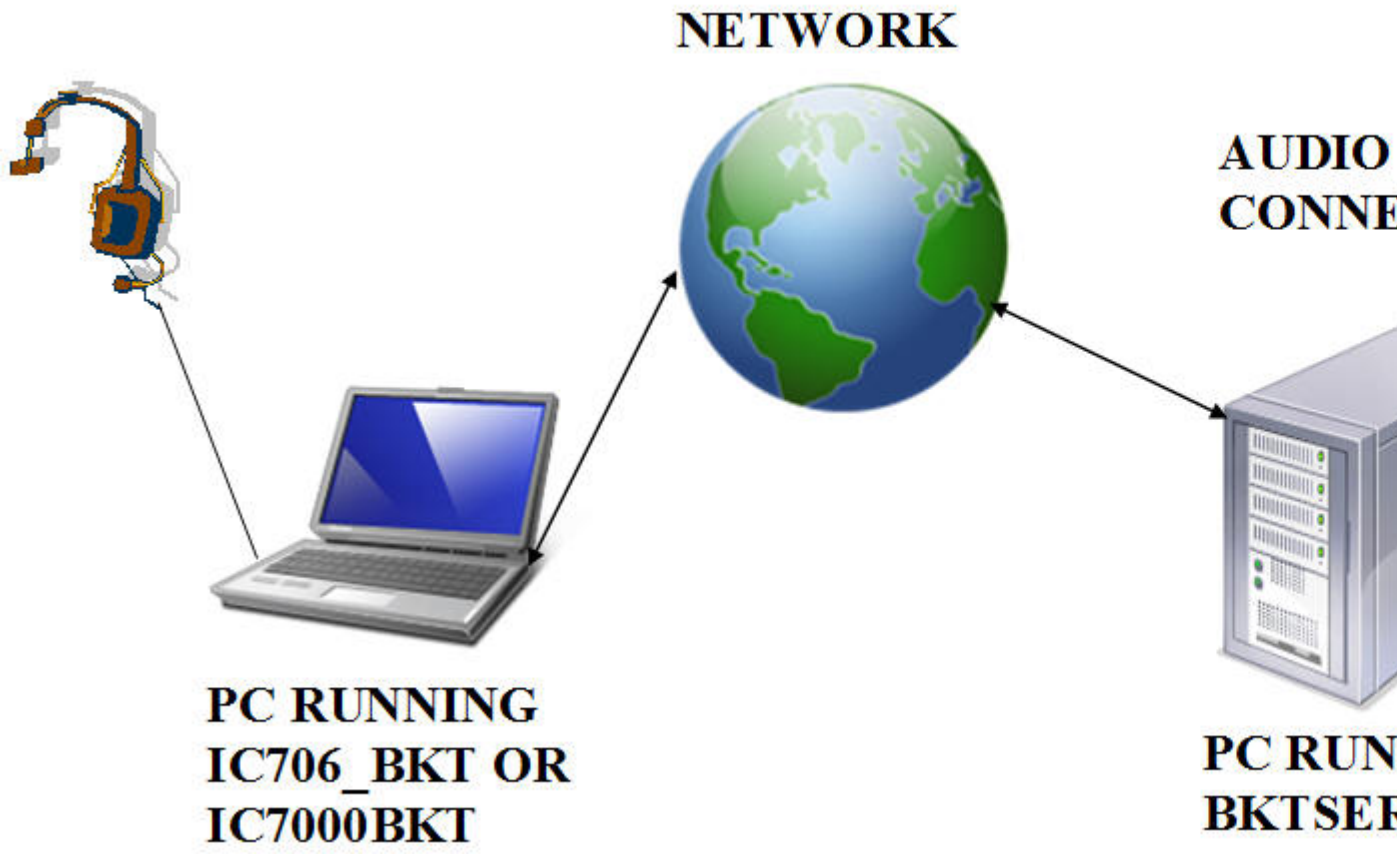
The remote management by TCP/IP is managed through two separate moduls:

1. Server BKTServer

Running on the computer connected to the RTX.

2. Client BKTClient
Its an external driver for IC7000BKT and IC706_BKT programs.

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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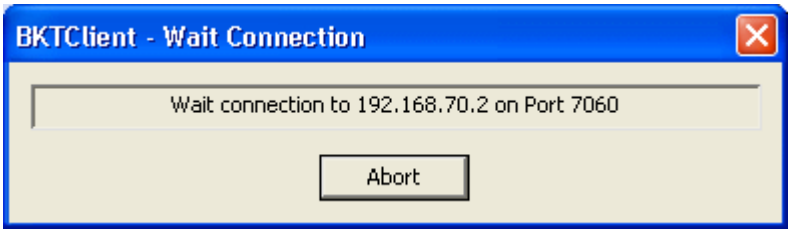
BKTClient start window.

[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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BKTClient

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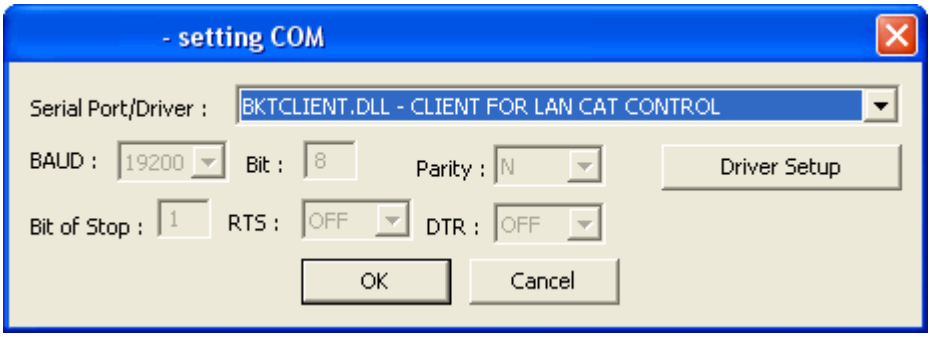

For enable the driver BKTClient to select BKTCLIENT.DLL as Port in the serial port configuration of the program IC7000BKT or IC706_BKT.

[Driver Setup] Configure the BKTClient.

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Project Analyzer

Configuration

BKTClient

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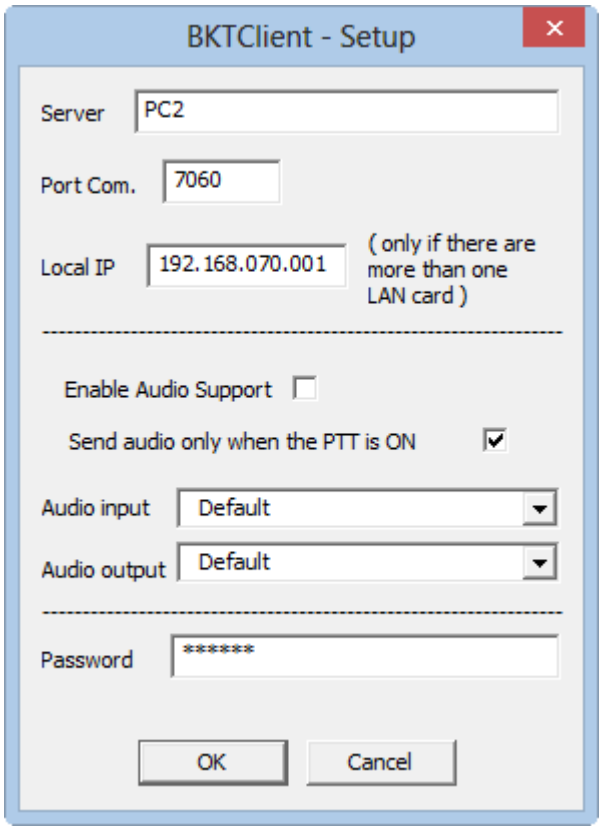
Configuration



[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 workin
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 serv
transmission
[Audio input] Select the audio card which the microphone is connected on and enable th
[Audio output] Select the audio card where to listen to the audio received from the server
[Password] Password connection, only used if required by the server

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BKTServer

BKTServer

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BKTServer

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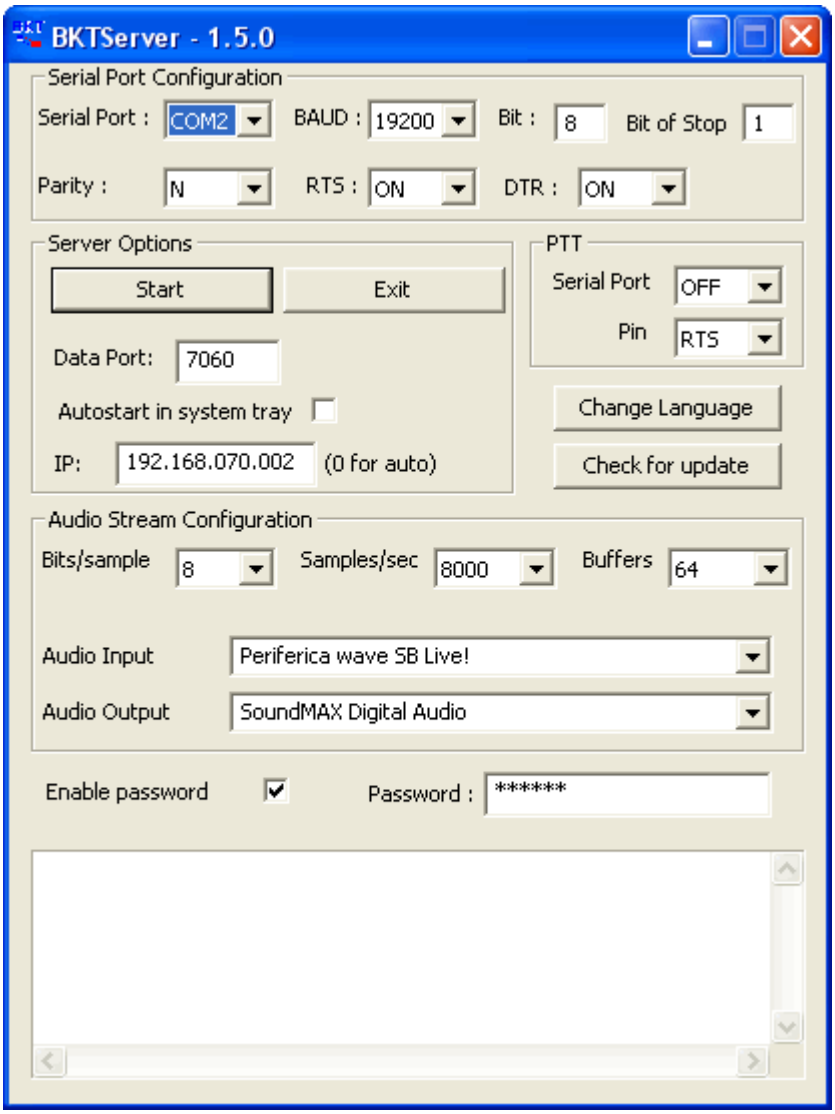

BKTServer must be in execution on the remote computer attached to the RTX.

[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 avaible. Need a internet connection.
[Audio Stream Configuration]
Specify the parameters audio, increasing the values of Bits/sample and Samples/sec it will increase the fidelity of the audio but it needs greater band. Increase the Buffers if loss audio packets.

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

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BKTRS232 Alternative serial driver

BKTRS232 Alternative serial driver

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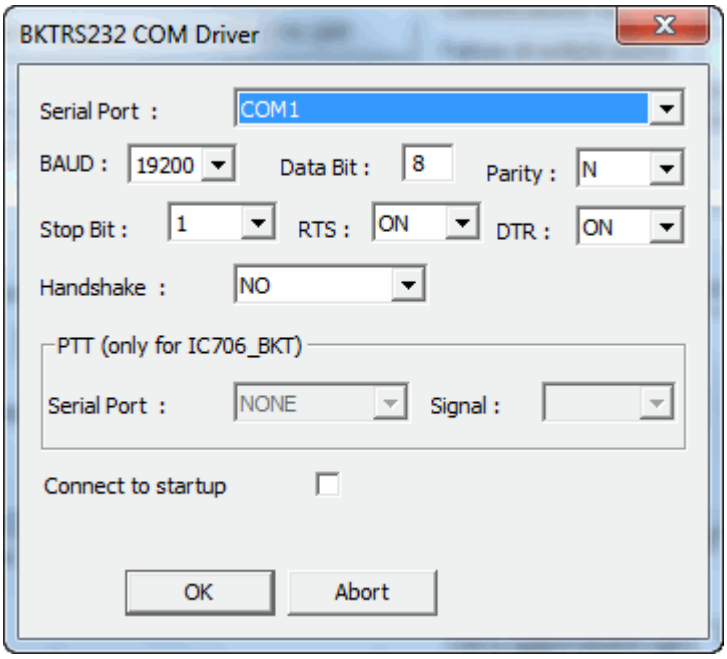

Use this driver if you have communication problems with the RTX.

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Interfacing with other programs

Interfacing with other programs

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IC706_BKT 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 IC706_BKT is executed BEFORE any other program.

If DDE doesn't work, it's possible to enable the LAN Protocol in the configuration to use IC706_BKT with JTDX, WSJT-X, JS8CALL, MSHV, etc...

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