ICOM IC-9100 Remote Control

Application Note

Introduction

The ICOM IC-9100 multiband transceiver supports the RS-BA1 Internet server-client remote-control software suite. With RS-BA1, you can configure a remote control system through the Internet or a LAN (Ethernet) network. Most functions and modes of the transceiver, including interference rejection functions and IF filter settings, can be controlled. Also, S-meter, SWR and RX Voice and more are available.

The IC-9100 has a expanded frequency range and may be used as a remote receiver. This Application Note does not contain any guidelines regarding transmission functionalities, but deals exclusively with the installation of the RS-BA1 cli-

Configuration of RS-BA1 Remote Control Software

♦ Install the RS-BA1 software from the CD
♦ Start "Remote Utility"
♦ Configure "Network Setting"
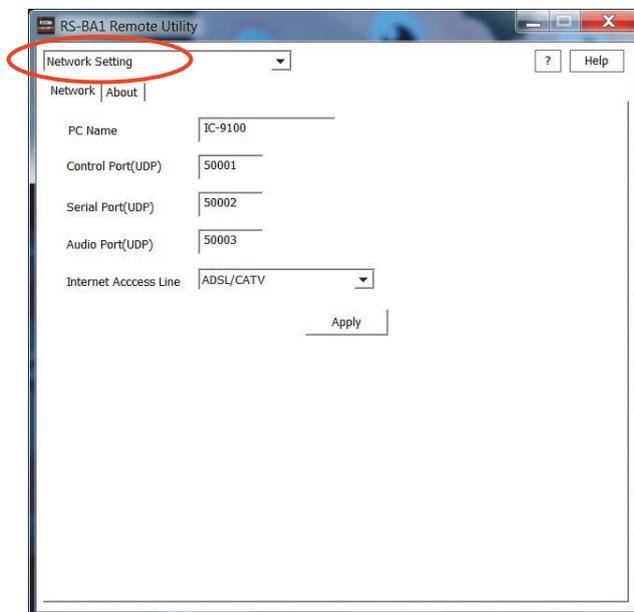
♦ PC Name: IC-9100
♦ Control Port (UDP): 50001
♦ Serial Port (UDP): 50002
♦ Audio Port (UDP): 50003
♦ Internet Access Line: ADSL/CATV

The „PC Name" depends on the server settings.

The UDP ports are default and may be accepted.

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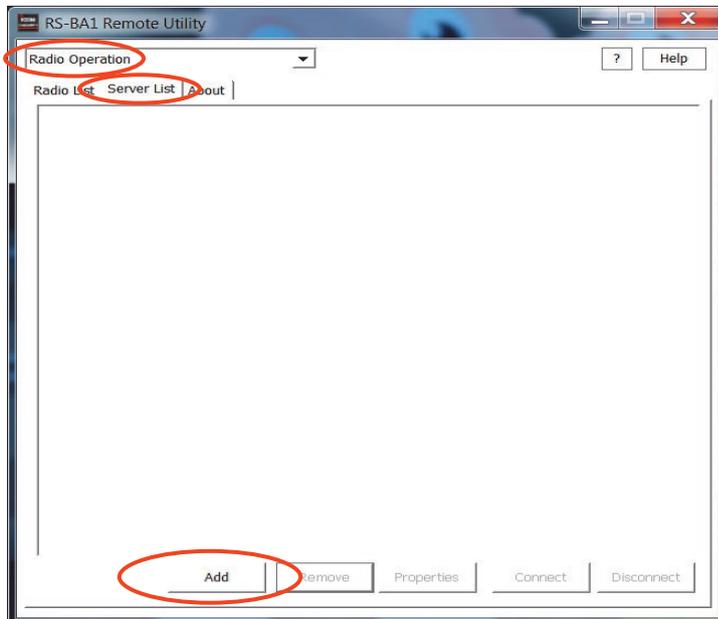
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♦ Enter the information of the IC-9100 server in the "Radio Operation" and "Server List" categories

♦ Press „Add"

Please, notice that the IP address "80.x54.x8x.1xx" is solely an example used in this Application Note.
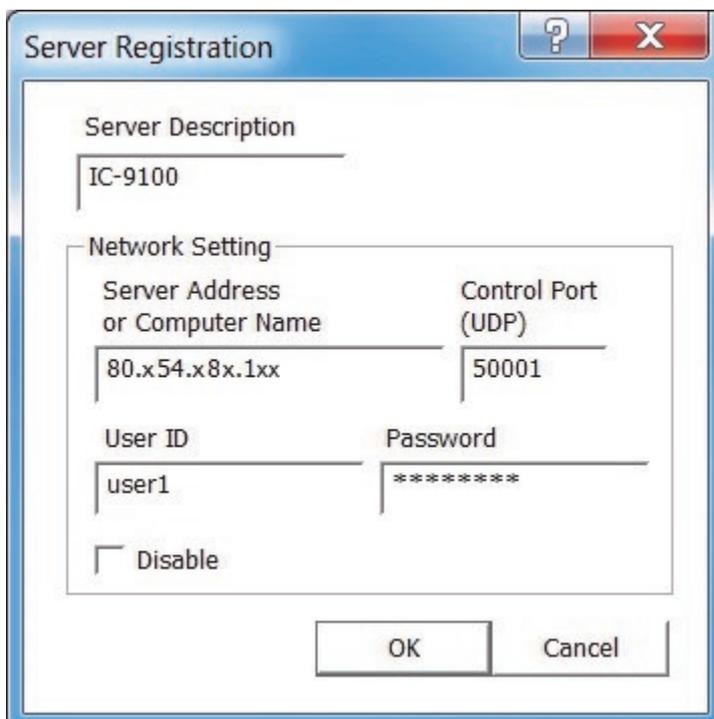
The "Server Registration" window is opened

♦ Enter the IP address or the name of the server in "Network Setting"
♦ Control Port (UDP): 50001
♦ User ID: user1
♦ Password: < password >
♦ Press „OK"

The "Server Address" or „Computer Name" depends on the server settings.

The "User ID" and the "Password" information must also be fetched from the server.

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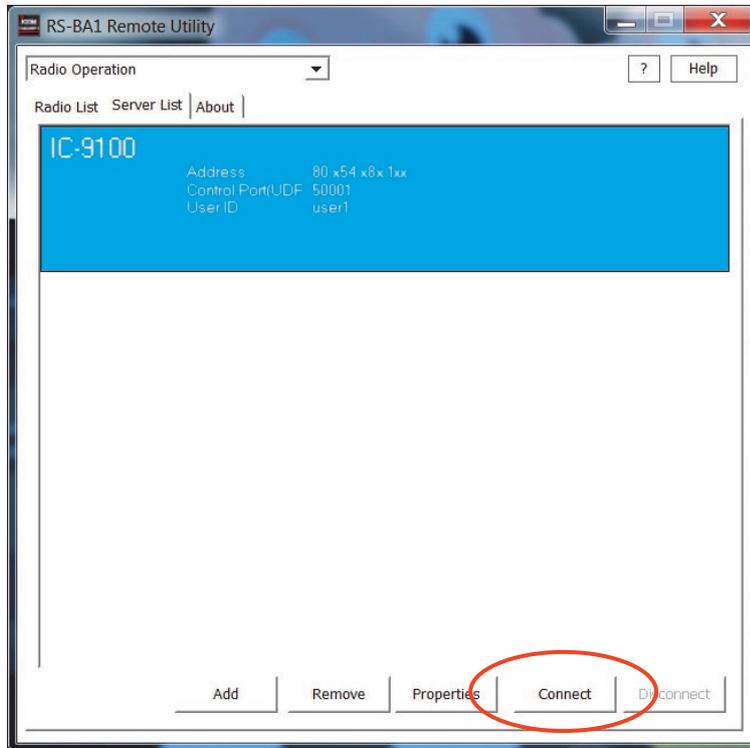
- After the server Installation, the Server List" should look like the illustration to the left
- Next press "Connect"
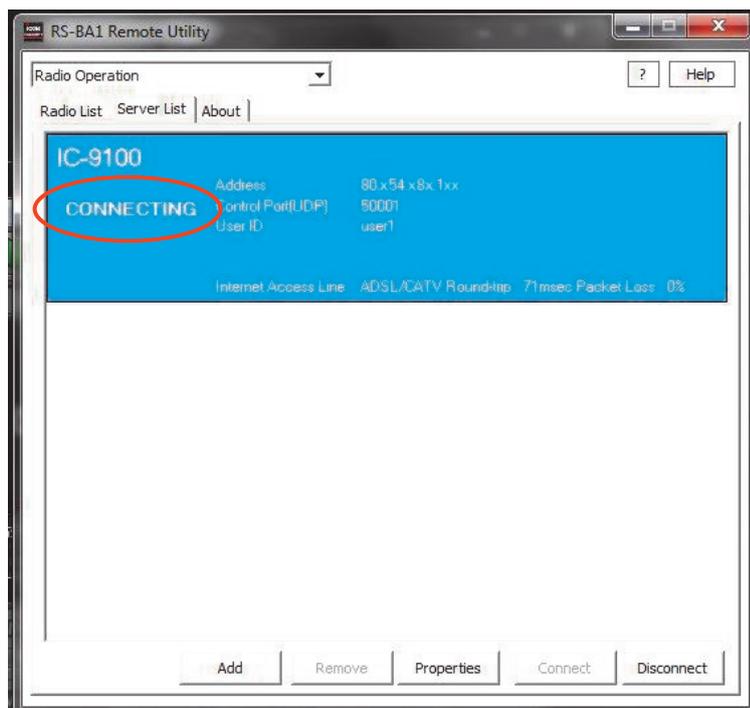
- If the connection is established, the term CONNECTING is displayed below "IC-9100"

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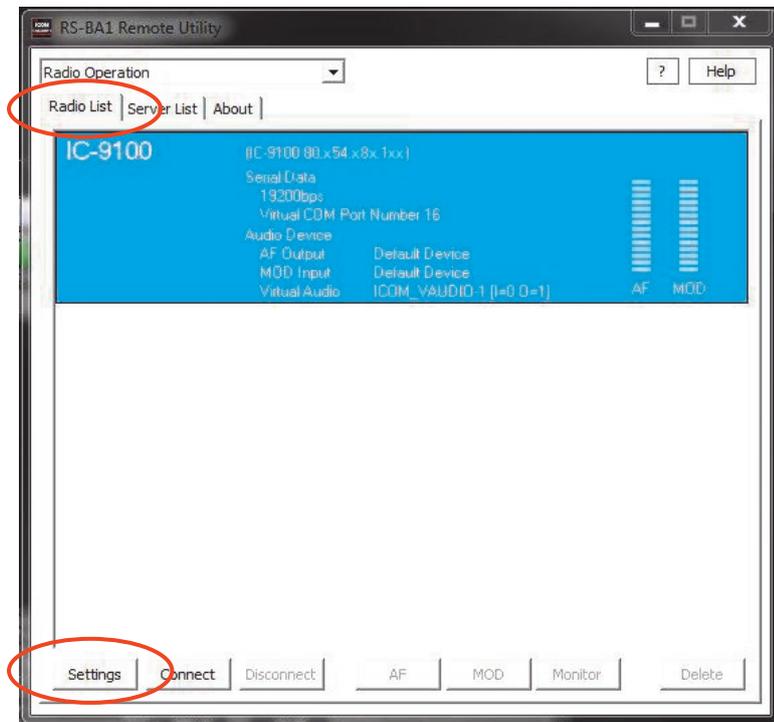
♦ The correct settings must now be entered in „Radio List"

♦ Clicking "Settings" opens the "Network Setting" menu
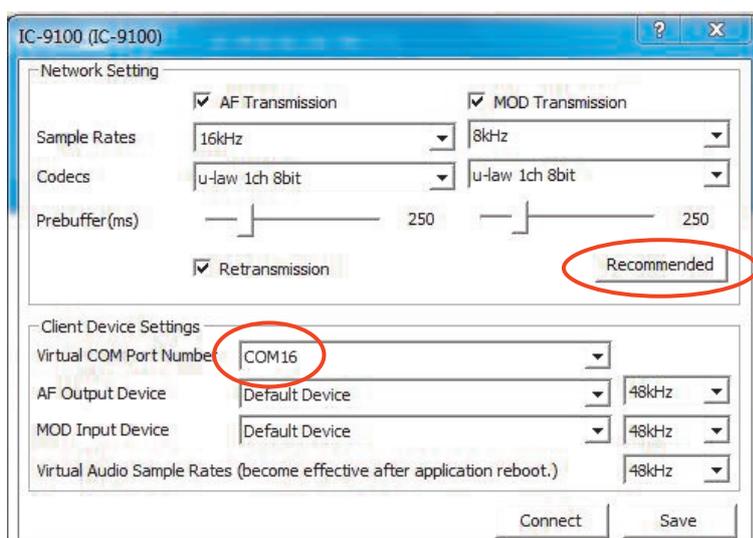
♦ Enter the "Virtual COM Port Number" in "Virtual COM Port" under "Client Device Settings". The standard value is COM16"

♦ All other settings are default values and may be accepted without changes

♦ Select the "Recommended" menu
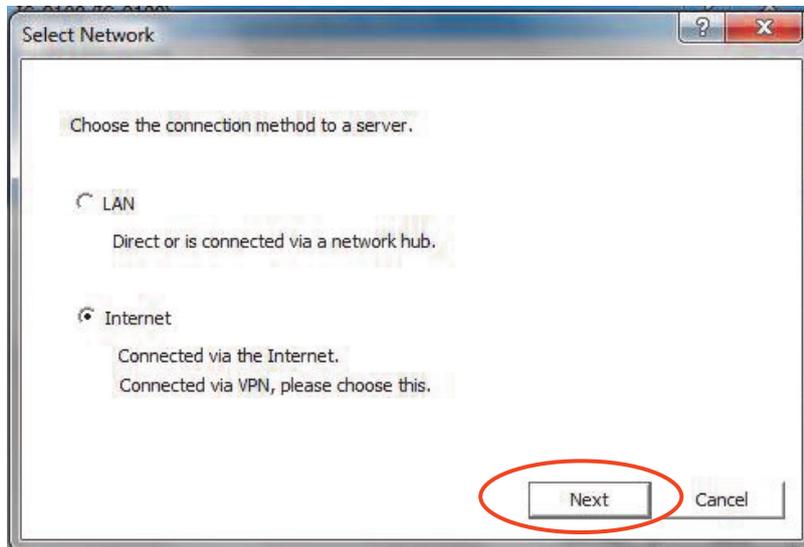
♦ The "Select Network" menu contains the settings for LAN or Internet connectivity
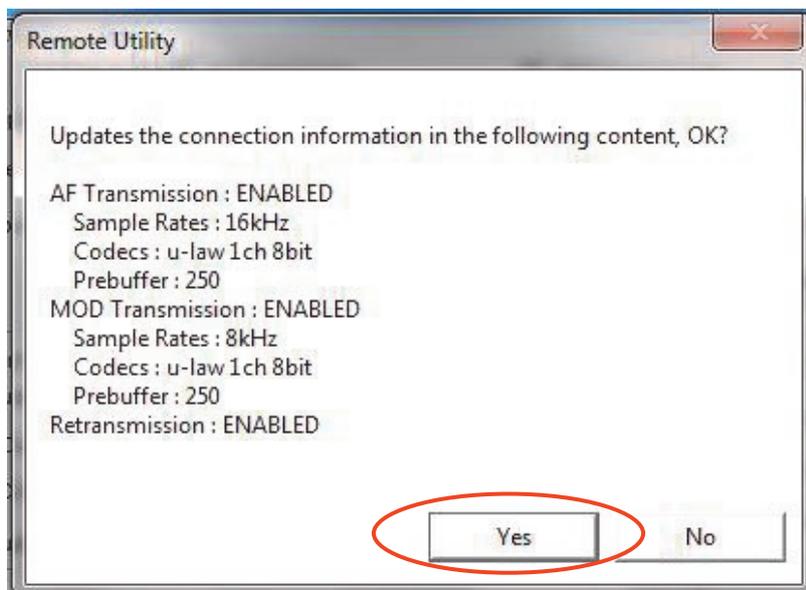
♦ In "Remote Utility" all AF und MOD (modulation) settings are shown

♦ These default values may be changed at any time

When transmission functionality is not required "MOD Transmission" in "Network Setting" should be set to "Not use".

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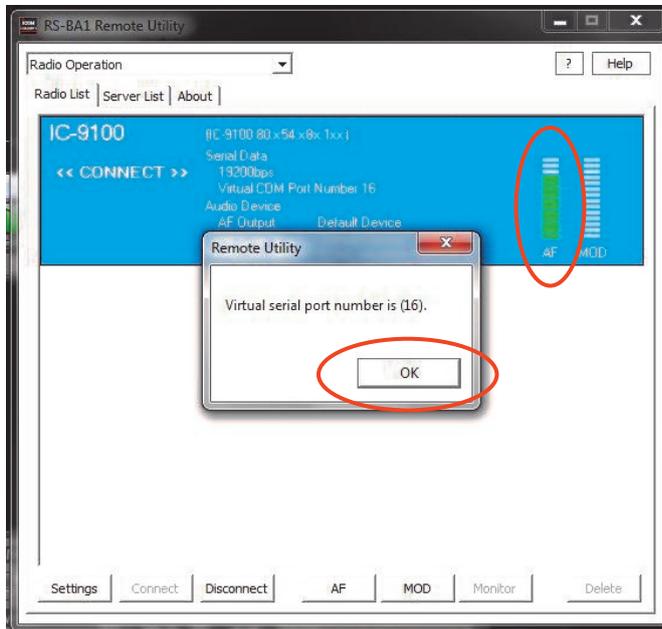
♦ The client-server connection is now established and the AF level is displayed

♦ Open „RS-BA1 Remote Control", the remote control application for the IC-9100

♦ Click "Connect Setting" to open the corresponding menu
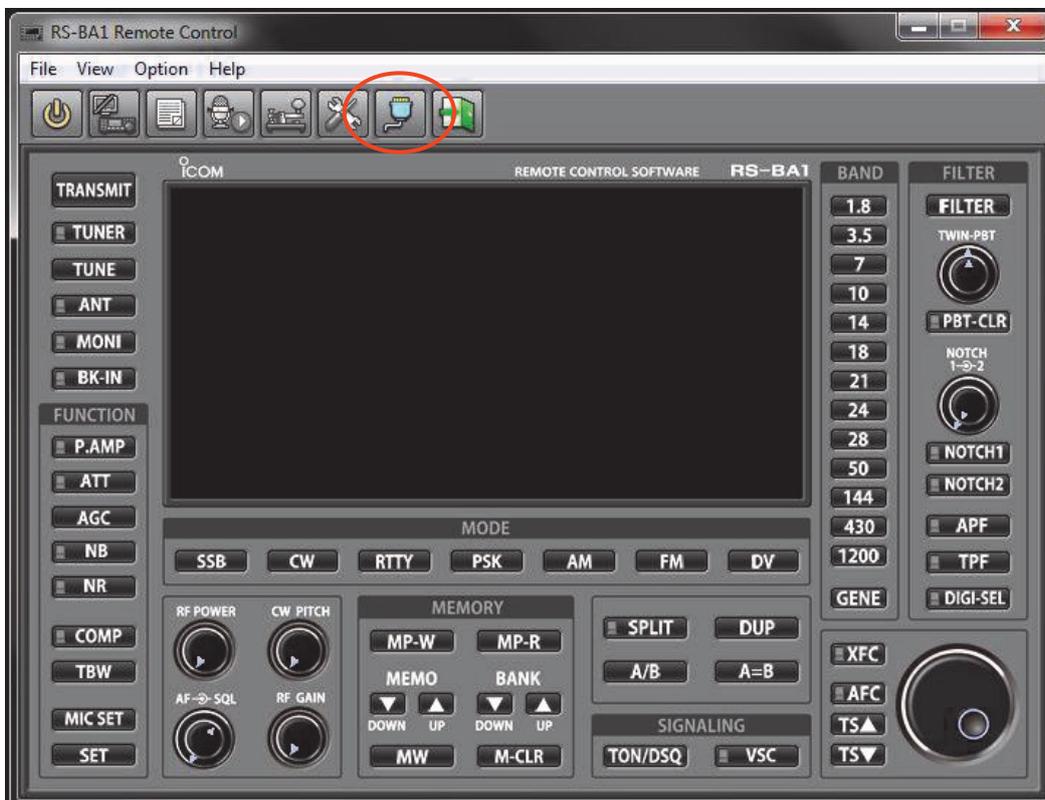
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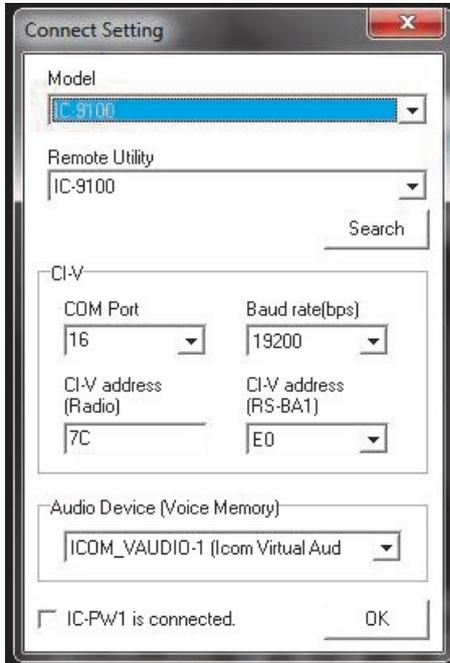
Enter the remaining information in "Connect Setting":

♦ Model: IC-9100
♦ Remote Utility: IC-9100
♦ COM Port: 16
♦ The other settings may be accepted without changes

♦ Click "Connect ON/OFF" to start the data transfer
♦ Depending on the type of connection, a few moments – for an Internet connection typically 3-5 seconds - may pass until receiver data are available
♦ To operate the transceiver use the left and Right mouse buttons

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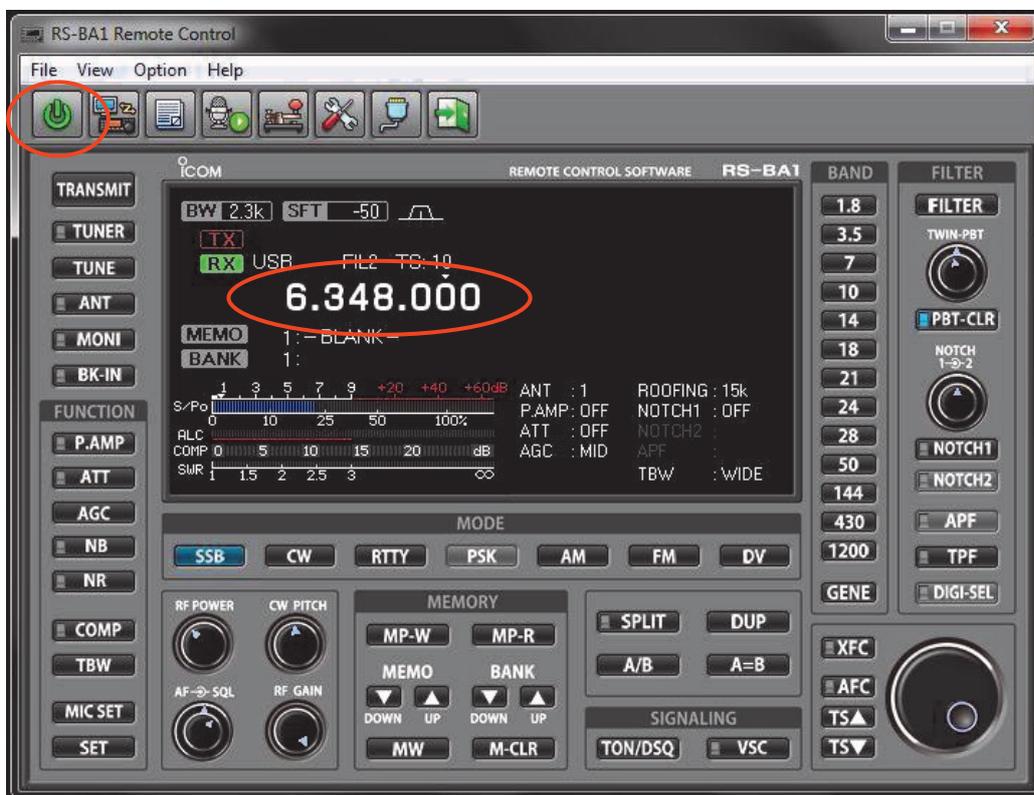
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Since more than thirty years Wavecom Elektronik AG has developed, manufactured and distributed high quality devices and software for the decoding and retrieval of information from wireless data communication in all frequency bands. The nature of the data communication may be arbitrary, but commonly contains text, images and voice. The company is internationally established within this industry and maintains a longstanding, world-wide network of distributors and business partners.

Product Information

Products	http://www.wavecom.ch/product-summary.php
Datasheets	http://www.wavecom.ch/brochures.php
Specifications	http://www.wavecom.ch/product-specifications.php
Documentation	http://www.wavecom.ch/manuals.php
Online help	http://www.wavecom.ch/content/ext/DecoderOnlineHelp/default.htm
Software warranty	One year free releases and bug fixes, update by DVD
Hardware warranty	Two years hardware warranty
Prices	http://www.wavecom.ch/contact-us.php

System Requirements

	Minimum	Recommended
CPU	Core i5 or Core i7 2.8 GHz	Core i7-6700 3.4 GHz
Memory	4 - 8 GB RAM	16 - 32 GB RAM
OS	Windows 7	Windows 10 32-bit or 64-bit

Distributors and Regional Contacts

You will find a list of distributors and regional contacts at http://www.wavecom.ch/distributors.php

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WAVECOM ELEKTRONIK AG
8090 Zurich, Switzerland
E-Mail: sales@wavecom.ch
Internet: www.wavecom.ch