

Remote Control for the Ham Radio Station

Operate your station from anywhere!



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Hamilton, Ontario, Canada

Why Remote?

- **Outdoor antennae not allowed in your neighborhood**
- **Change of residence...condo or apartment**
- **Small residential lot..limited antenna size**
- **High noise levels..power lines, plazma tv etc.**
- **Dual residency / Vacation home**
- **Travel without cumbersome amateur equipment**
- **Get equipment out of the house**
- **iPhone/iPad connects to newer automobile sound system using BlueToothall hands free!**

My Motivation

- **Provide an HF service to seniors with no radio**
- **Check in from anywhere to any HF band.**
- **Connect while mobile using hand held devices**
- **Keep the operation simple.**
- **Integrate the automatic technology of my base station to switch power and antennae.**
- **Demonstrate the use of Remote usage.**

Objectives

- **Use the free WiFi of most hotels and food establishments to connect with the internet for control and connectivity.**
- **Have full control of the transceiver and server.**
- **Be able to monitor important parameters of the station.**
- **Keep the initial cost to a minimum.**

Base Station requirements

- **A transceiver connected as a base station.**
- **Easy to setup computer setup ...integration.**
- **Off the shelf software for Icom control of newer radios**
- **All necessary antennae switchable by the transceiver.**
- **Back-Up UPS for the server.**
- **Reliable Internet connection.**
- **Auto tuner to track your frequency / band changes**

Remote Solutions:

I will present two solutions currently in use

- Remote TX



- SDR-Control mobile for Apple



Amateur qualifications

- ADVANCED License can operate remote HF
- Industry Canada states in IC-3
- Information on the Amateur Radio Service.
- “Only Advanced operators may:
- Remotely control fixed stations
- Including the use of radio links.”
- A Basic/Basic Plus license does not apply

Desktop remote control

Probably one of the best desktop control software options for your Icom-Yaesu-Elecraft transceiver. This product also supports Remote Control. A one time software purchase is necessary.



**New for your
Icom
IC-7300 IC-7610
Win4IcomSuite**

Remote Considerations

- Software easy to use for most ages.
- Support newer Icom transceivers.
- iPhone or Android ease of operation.
- Desktop or any internet capable device
- Operation from remote site easy for any age

Remote HF solution

Remote HF Software

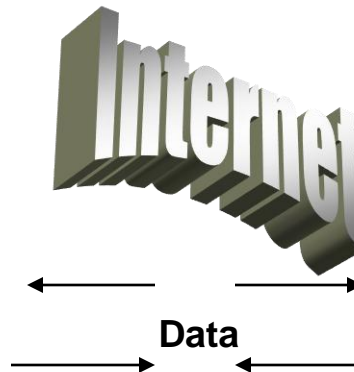
Raspberry Pi and yearly contract required.



Audio
Control

Power

Antennas



CLIENT

Any PC or iPhone



Any web browser

Audio from anywhere



Remote HF requirements

- **Compatible Icom , Yaesu or Elecraft transceiver**
- **A yearly access contract with author**
- **Antenna...10/15/20 meter beam.....80/40 dipole**
- **Power Supply**
- **Raspberry Pi or Emulator**
- **UPS (optional)**
- **Monitor, keyboard and mouse for PC**
- **Suitable lightning protection for unattended stations.**

Host (Station) Requirements

- The RemoteTx® ham radio remote control system is an economical way to control your amateur radio station through the Internet with a phone, tablet, Mac or PC..
- Raspberry Pi appliance running RemoteTx software (free download) at your station connected to your radio (USB) and the Internet (ethernet).
- A yearly user contract to access the CLOUD server.

Program Benefits:

Control for most any transceiver:

- * Icom 7100, 7200 HF, 7300 HF, 7610 HF, 705 HF only
- * Elecraft KX2, KX3, KX3/s □ Yaesu FT-991/a (HF/vhf/uhf)
- * Note: There is a yearly charge for the Cloud server.
- Plug and Play network setup.
- (No special firewall configuration.
- Works with CGN.) *
- No dedicated PC required at station.
- Low cost, widely available standard hardware
- (Raspberry Pi..purchased by from Amazon.ca).

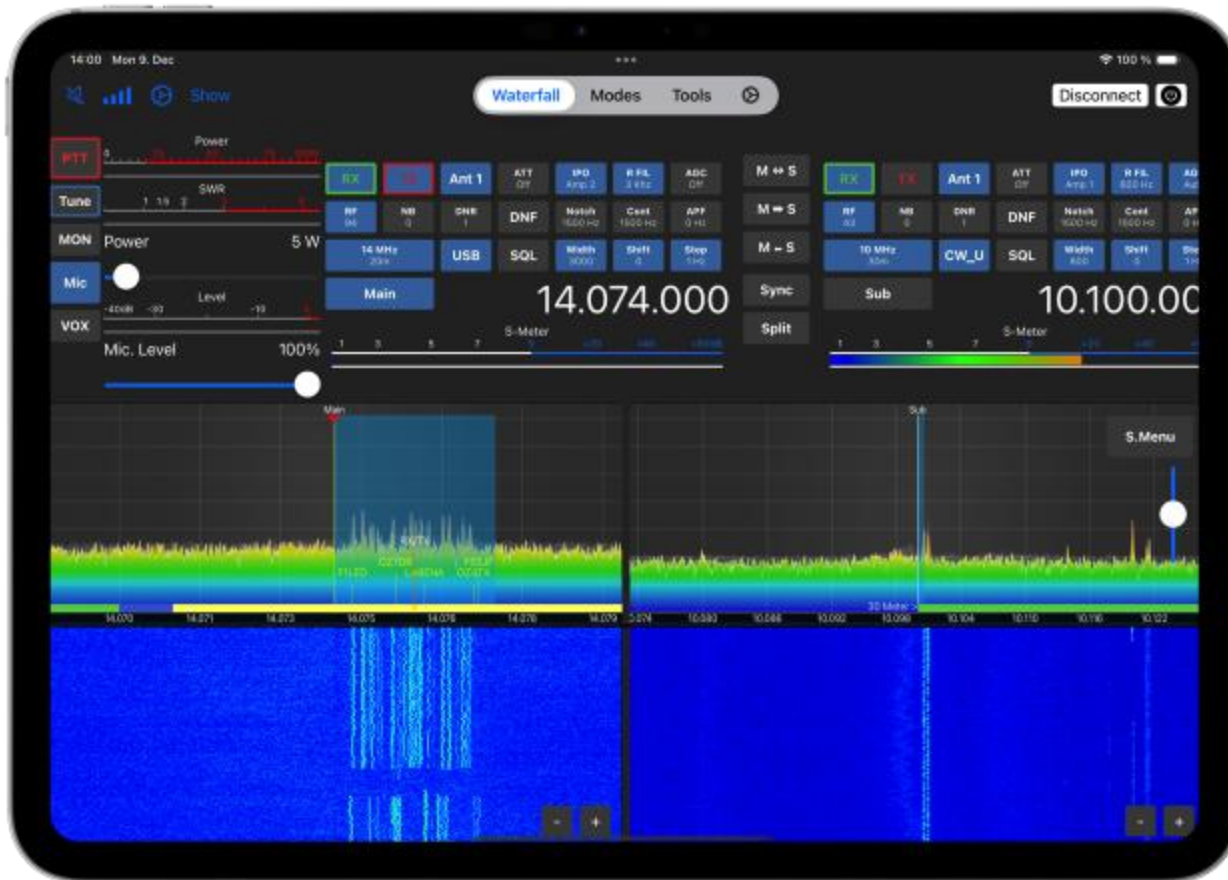
IC-7300/IC-7610 display

The screenshot displays the control interface for an IC-7300/IC-7610 radio. At the top, it shows the radio status as 'ON', the model 'IC-7300', and the date/time '2022-11-05 | 22:07:32 UTC'. The main display area shows two frequency windows: 'A' at 14.267.00 and 'B' at 14.100.00. Below these are controls for RIT (0.00), XIT, and a Reset button. The RX section includes a signal strength indicator (SIG) with a scale from 1 to 60, a power meter (PWR) from 0 to 100, an SWR meter from 1 to infinity, and an ALC meter. The TX Control section features an RF Power slider set to 100, a TX/RX toggle, a MOD-SOURCE set to USB, and a TBW set to WIDE. The Filter Settings section includes a Filter Selection (Wide/Soft), a Width slider set to 40, and Icom PBT (Outer/Inner) sliders set to 50. The Audio Levels section shows RX, TX, and AF-G sliders set to 50, 50, and 0 respectively. The Spectrum Display (Scope) shows a signal trace with a vertical line at 14350. The RX Control section at the bottom includes RF Gain (100), P. AMP (PA-1/ATT), AGC (Med), NR (4), NB Level (50), and Width (50) sliders. The interface also includes various mode selection buttons (LSB, USB, AM, CW, CW-R, RTTY) and filter settings (MNF, ANF, Med).

Remote TX software benefits

- REMOTE CONTROL CLIENT: A mobile phone, laptop or tablet running a compatible Internet browser with broadband or LTE cellular Internet access.
- An active RemoteTx service SUBSCRIPTION linked to the operator's call sign. This connects the radio station and the remote operator.
- Remote control (radio control, audio and power control) is achieved by opening an Internet browser and going to:
<https://your-call-sign.remotetx.net>

SDR-Monitor Mobile Software for Icom and more



SDR-Monitor mobile

- **Support for Icom from Marcus DL8MRE**
- **IC-705-IC7610-IC9700-IC7760-IC7300/MK2**
- **Operate your Icom transceiver at home or from anywhere in the world without additional software.**
- **Compatible with any iPhone iPad Mac desktop**
- **Tons of applications included**
- **CW keyer/Decoder**
- **FT8/FT4 tool**
- **This is a paid app on the Apple App store**

SDR-Monitor Mobile

- **USER GUIDE;**



- **You can purchase software on Apple App Store.**

SDR-Monitor mobile

No PC required

Your Icom transceiver



Internet



CLIENT

Your iPhone or iPad

