

HF Remote

ARASWF Club Remote Station

Hosted by
Arlen Hatlestad
W9PCI

Equipment

- Kenwood TS-480SAT
 - HF Multi-Mode 100 watt transceiver – 160 through 10m
 - Two Antennas - Selectable
 - ANT 1 – 10m Dipole (General direction NE / SW)
 - ANT 2 – 40m Dipole (General Direction E / W)
 - Mini-PC running Microsoft Windows 10 Home
 - Internet Connection (Wired to Switch connected to Router by Wi-Fi)
 - Rig-Blaster Interface
 - Interface between radio and computer
 - Manages COS / PTT
 - Manages Audio Tx & Rx levels

Software

- RemoteHams

- Register at website www.remotehams.com

The screenshot shows the registration page for RemoteHams.com. At the top, there is a navigation bar with links for Home, Help, Login, and a prominent orange Register button. Below the navigation bar, the breadcrumb trail reads "RemoteHams.com » Register". The main content area is titled "Registration Form" and is divided into two sections: "Required Information" and "Additional Information".

Required Information

- Username:** A text input field with a yellow question mark icon to its right.
- Email:** A text input field.
- Allow users to email me:** A checkbox that is currently unchecked.
- Choose password:** A text input field with a yellow warning triangle icon to its right.
- Verify password:** A text input field with a yellow warning triangle icon to its right.

Additional Information

- Location:** A text input field.
- Grid Square:** A text input field with the text "Grid Square" below it.

At the bottom center of the form, there is a blue Register button.

Software - Continued

- Download RCForb Client
 - You may get a “WARNING” about the “Safety” of the download
 - Proceed with download
 - If you are concerned about this download, install it on a “non-essential” PC
 - Select “OK / NEXT” to install the client using defaults
 - Let install place an “RCForb Client” Icon on your desktop
 - You can move it later if you wish to place it in your favorite “radio” folder
 - You will only have to install once
 - Look for updates to the RemoteHams RCForb Client
 - Stay current with updates

Software – Cont.

- To UNINSTALL RCForb Client from a PC
 - Use Windows “Remove Programs” feature to select and uninstall program.
- RemoteHams RCForb Client is available on “Android” devices \$9.99

Software – Cont.

- Start RCForb Client
 - Login – Use your Username / Password chosen during registration
 - Many “Remote” stations will be listed
 - Select ARASWF
 - *** **YOU MUST BE A PAID MEMBER OF THE ARASWF Radio Club** ***
 - Ask Club president for authorization to use the HF Remote

RcForb Client Login

The screenshot displays the RcForb Client interface with a 'RemoteHams.com Login' dialog box open. The dialog box features the RemoteHams.com logo and the O.R.B. logo, along with input fields for 'Username' and 'Password'. It also includes links for 'New Account' and 'Forgot Password?' and 'OK' and 'Cancel' buttons.

The background interface includes a top menu bar with 'Please Login', 'VOL', and 'MIC' controls. Below this is a 'Control Devices' section with 'SPKR' and 'MIC' dropdowns, volume sliders, and 'ON/OFF' toggles. A 'Remote Station' list is visible with columns for 'Orb...' and 'Remote Station'. The list includes entries like '-1 ARASWF-Local', '208... K9URT- Yaesu FT- 991-A', '144... K5KNM Remote (Private Club onl', '235... KL7TAL American Legion Post 2', and '8993 ***KJ4TN- ICOM-7300*** Nets mo'. A search bar is at the top of the list. The interface also shows 'Relay', 'Amp', 'Rotator', and 'CW' sections. The 'CW' section has 'MACROS' and 'CONFIG' dropdowns and buttons for 'CQ', 'TU', '5NN', 'CALL', 'F5', and 'F6'. The 'Chats' section has a text area and 'Send', 'ASK', and 'Help' buttons. The bottom of the interface has 'Memories' and 'Debug' buttons.

RcForb Client

The screenshot displays the RcForb Client interface with the following components:

- Audio Section:** Includes SPKR (Default), MIC (Default), and sliders for VOL and MIC. It also features ON/OFF toggles and CONFIG dropdowns for 300ms and 800ms.
- Station List:** A table with columns for Orb Id, Remote Station, Radio, City, State, and Country. Two entries are visible:

Orb Id	Remote Station	Radio	City	State	Country
8993	***KJ4TN- ICO...	Ic-7300	Birmin...	AL	United Sta...
23446	W7CK - Peoria...	Ic-7300	Peoria	AZ	United Sta...
- Filtering:** A search bar and filter options for Online (checked), RX: 63857487478, and Favorite = 1.
- Summary:** Online: 300, RX: 85, TX: 215, Clubs: 186, Non-Clubs: 114, Synchronized.
- Utility Panels:** Chats, CW (with MACROS and CONFIG dropdowns), Relay, Amp, and Rotator.
- Bottom Bar:** Includes Memories and Debug buttons.

RemoteHams – Cont.

- Suggest leaving most of the “options” on the Client “as-is”
 - The default setup will work most of the time
- Enter “ARASWF” in Search window
- Double-click “ARASWF Remote”
 - RemoteHams Startup Display
 - Kenwood TS-480SAT “faceplate”

RcForb Client – Search Window

Search window →

The screenshot shows the RcForb Client interface with the search window open. The window title is "RCForb Client by RemoteHams.com". The top menu bar includes "Audio", "Control Devices", "Virtual Devices", and "Layout". The "Audio" tab is active, showing settings for SPKR (Default), MIC (Default), VOL, and CONFIG (300ms and 800ms). The search window is titled "araswf" and contains a table of search results. The table has columns for "Orb...", "Remote Station", "Radio", "City", "State", and "Country". The first row is highlighted in yellow and shows "-1" in the "Orb..." column, "ARASWF-Local" in the "Remote Station" column, "Unknown" in the "Radio" column, "Unkno..." in the "City" column, "Unkno..." in the "State" column, and "Unknown" in the "Country" column. The second row shows "146..." in the "Orb..." column, "ARASWF Remote" in the "Remote Station" column, "TS-480" in the "Radio" column, "Naples" in the "City" column, "FL" in the "State" column, and "United Sta..." in the "Country" column. Below the table, there are filter options: "Online > 63861634224" and "Favorite = 1". The status bar shows "Online: 309", "RX: 95", "TX: 214", "Clubs: 196", "Non-Clubs: 113", and "Synchronized @ 7:00 AM". The bottom of the window has tabs for "Chats", "CW", "Relay", "Amp", and "Rotator".

Orb...	Remote Station	Radio	City	State	Country
-1	ARASWF-Local	Unknown	Unkno...	Unkno...	Unknown
146...	ARASWF Remote	TS-480	Naples	FL	United Sta...

Online: 309 | RX: 95 | TX: 214 | Clubs: 196 | Non-Clubs: 113 | Synchronized @ 7:00 AM

ARASWF Remote Startup Screen

The screenshot displays the ARASWF Remote software interface. At the top, the window title is "Welcome, w9pci VOL" and "ARASWF-Local". The interface includes several control panels:

- Audio:** SPKR (Default), MIC (Default), VOL (slider), and MIC (slider).
- Control Devices:** ON/OFF toggles and CONFIG dropdowns (300ms and 800ms).
- Virtual Devices:** Delay: 0.33s, Mute button, Relay, Amp, and Rotator sections.
- Layout:** A central control panel with buttons for Mode (LSB), AGC (Slow), Tx Meter (Power), Quick Memory (Off), Tx EQ (Off), Rx EQ (H Boost2), Auto Tune (Off), and Antenna (Two). It also shows a frequency display (8/10/2024 9:33:51 PM TS-480) and power/antenna status (80%, 12 W, 0.2 KHz, 3.4 KHz).
- Chats:** A chat window showing a message: "May I tune the remote? [System | 2024-08-10 21:33:29 -04:00] Welcome to the ARASWF club closed remote TS-480. For questions and problems, please contact araswf.ra@gmail.com and/or give W9PCI a phone call." The chat is addressed to "(A) w9pci".
- CW:** A section for CW macros with buttons for CQ, TU, 5NN, CALL, F5, F6, F7, and F8.

A central "Information" dialog box is open, displaying the following text:

Welcome to the ARASWF Remote Station!

Please read the instruction page at <https://www.araswf.org>. The HF Remote "ARASWF Remote" is UP and available to all paid club members. It currently (8/7/2024) has a 10M Dipole for ANT 1 & 40M Dipole on ANT2.

Please note that Tx is now available; send email requesting Tx privileges to ac4zm@hotmail.com.

Thank you for your cooperation.

OK

RcForb Client - TS-480 Faceplate

Welcome, w9pci VOL ARASWF-Local

Audio Control Devices Virtual Devices Layout

SPKR Default VOL ON OFF CONFIG 300ms CONFIG 800ms

MIC Default MIC Buffering (Latency) VOX (Local)

Delay: 0.36s Mute Relay

Number Pad Bands

LSB Mode 8/10/2024 9:35:26 PM TS-480
Slow AGC TOT: 180 seconds
Power Tx Meter 57 000 PWR OFF
Off Quick Memory
Off Tx EQ 007.030.600
H Boost2 Rx EQ
Off Auto Tune
Two Antenna
80% RF Gain
12 W RF Power
0.2 kHz DSP Low Cut-Off
3.4 kHz DSP High Cut-Off
0.10 kHz

* Remote Open *

Chats (A) w9pci
May I tune the remote?
[System | 2024-08-10 21:33:29 -04:00]
Welcome to the ARASWF club closed remote TS-480. For questions and problems, please contact araswf.ra@gmail.com and/or give W9PCI a phone call.

CW MACROS CONFIG
CQ TU 5NN CALL F5 F6 F7 F8

Relay Amp Rotator

Memories Debug

TS-480 Faceplate – POWER ON

- On the “Client” screen
 - Click the PWR button

The screenshot displays the TS-480 software interface. At the top, the window title is 'Welcome, w9pci VOL' and 'ARASWF-Local'. The main interface is divided into several sections:

- Audio Devices:** Includes SPKR (Default), MIC (Default), and a Mute button.
- Audio Levels:** Features volume sliders for VOL and MIC.
- Buffering (Latency):** Shows ON and OFF toggle switches and CONFIG dropdowns (300ms and 800ms).
- TS-480 Faceplate:** The central display shows '8/10/2024 9:35:26 PM' and 'TOT: 180 seconds'. The main display area shows '000 PWR OFF' and '007.030.600'. Below the display are various controls including RF Gain (80%), RF Power (12 W), DSP Low Cut-Off (0.2 KHz), and DSP High Cut-Off (3.4 KHz). A green power button is visible at the bottom right of the faceplate.
- Chats:** A chat window at the bottom left contains the message: 'May I tune the remote? [System | 2024-08-10 21:33:29 -04:00] Welcome to the ARASWF club closed remote TS-480. For questions and problems, please contact araswf.ra@gmail.com and/or give W9PCI a phone call.'
- MACROS:** A macro control panel at the bottom right includes buttons for CQ, TU, 5NN, CALL, F5, F6, F7, and F8.

TS-480 Faceplate – Cont.

- On the “TS-480” Faceplate
- Become familiar with the many “buttons”, “pull-down Menus” and “clickable” areas.
- Check radio for “IN-USE” by another operator
 - Radio will be powered “ON” and display will show Frequency of VFO A & B
 - LISTEN and WATCH to see what the current operator is doing with the remote
 - If radio is powered ON but no control operator is shown
 - **ASK TO BECOME THE NEW CONTROL OPERATOR**
 - IF no answer or permission is granted by other control operator
 - Proceed as “Control Operator”
 - TRANSMIT ONLY ON FREQUENCIES PERMITTED BY YOUR LICENSE
 - TRANSMIT ONLY after checking SWR – Antennas are dipoles (40m & 10m)
 - Listening is permitted and any frequency.
 - If the radio is powered OFF, check to see if a control operator is listed

RcForb Client – Remote ON Screen

The screenshot displays the RcForb Client software interface. At the top, the window title is "Welcome, w9pci VOL" and "ARASWF-Local". The main interface is divided into several sections:

- Audio Controls:** Located at the top, it includes sliders for "VOL" and "MIC", and toggle switches for "ON" and "OFF". Below these are "CONFIG" dropdown menus set to "300ms" and "800ms".
- Virtual Radio Display:** The central part of the interface features a digital display showing "7.203.000" and "28.400.000". It includes various control buttons like "TX", "TXd", "TXt", "PWR", "Tune", "A/B", "ATT", "Pre", "BC1", "BC2", "DNL1", "DNL2", "DNL3", "NB", "NR1", "NR2", "Split", and "VOX".
- Utility Panels:** On the right side, there are panels for "Relay", "Amp", and "Rotator", each with a checkbox and a pin icon.
- Chats:** A chat window at the bottom left shows a message: "Welcome to the ARASWF club closed remote TS-480. For questions and problems, please contact araswf.ra@gmail.com and/or give W9PCI a phone call." Below the chat is a "Send" button and "ASK" and "Help" options.
- Memories and Debug:** At the bottom left, there are buttons for "Memories" and "Debug".

Make sure your PC volume is turned up (mid-way)

Select Sound device if default is not appropriate for your configuration

Adjust "VOL" slider on Client

RcForb – Remote ON Screen

The screenshot displays the ARASWF-Local software interface, which is used for remote control of a radio station. The interface is organized into several sections:

- Top Bar:** Shows the user's name "w9pci", volume (VOL), microphone (MIC), and the application name "ARASWF-Local".
- Control Panels:** Includes "Audio Devices" (SPKR and MIC dropdowns), "Audio Levels" (VOL and MIC sliders), "Buffering (Latency)" (ON/OFF toggle and CONFIG dropdowns), and "VOX (Local)" (ON/OFF toggle and CONFIG dropdowns).
- Waveform:** A central waveform display showing a signal with a "Delay: 0.40s" and a "Mute" button.
- Virtual Radio Display:** A central panel showing a digital display with "007.203.000" and "28.400.000", along with various controls like "Mode" (LSB), "AGC" (Slow), "Tx Meter", "Quick Memory", "Tx EQ", "Rx EQ", "Auto Tune", "Antenna", "RF Gain", "RF Power", "DSP Low Cut-Off", and "DSP High Cut-Off".
- Number Pad and Bands:** A vertical sidebar on the left containing a "Number Pad" and "Bands" section.
- Relay and Amp:** Two control panels on the right, each with a checkbox and a pin icon.
- Chats:** A chat window at the bottom left showing a message: "Welcome to the ARASWF club closed remote TS-480. For questions and problems, please contact araswf.ra@gmail.com and/or give W9PCI a phone call." and a "Send ASK Help" button.
- CW and Rotator:** Two control panels at the bottom right, including "CW" (MACROS, CONFIG) and "Rotator" (checkbox and pin icon).

RcForb Client – Power OFF

The screenshot displays the RcForb Client software interface. At the top, the window title is "Welcome, w9pci VOL" and "ARASWF-Local". The main interface is divided into several sections:

- Audio Section:** Includes "SPKR" (Default), "VOL" (volume slider), "ON" (toggle), "OFF" (toggle), "MIC" (Default), "MIC" (slider), "CONFIG" (300ms), and "CONFIG" (800ms).
- Control Panel:** A central panel with a yellow display showing "TOT: 180 seconds" and "PWR OFF". Below the display are various controls: "Mode" (LSB), "AGC" (Slow), "Tx Meter", "Quick Memory", "Tx EQ", "Rx EQ", "Auto Tune", "Antenna" (Two), "RF Gain" (80%), "RF Power" (12 W), "DSP Low Cut-Off" (0.2 KHz), and "DSP High Cut-Off" (2.4 KHz). A "PWR" button is highlighted with a red arrow and the text "Click the PWR Button".
- Buttons:** A grid of buttons including TX, TXd, TXt, PWR, Tune, A/B, A=B, CW-T, TSQ, ATT, Pre, BC1, BC2, DNL1, DNL2, DNL3, NB, NR1, NR2, Split, and VOX.
- Chats:** A chat window at the bottom left with a message: "May I tune the remote? [System | 2024-08-10 21:33:29 -04:00] Welcome to the ARASWF club closed remote TS-480. For questions and problems, please contact araswf.ra@gmail.com and/or give W9PCI a phone call."
- Other Panels:** "Relay", "Amp", and "Rotator" panels are visible on the right side.

RcForb Client

- Log off or “X” off client
 - If you log off, you will need to log back on when you restart RcForb
 - If you “X” off, you will remain logged on when you restart RcForb

ARASWF – HF Remote

Questions?

For a “PDF” copy of this presentation, visit:

<http://w9pci.com/ares/araswf/HF-Remote.pdf>