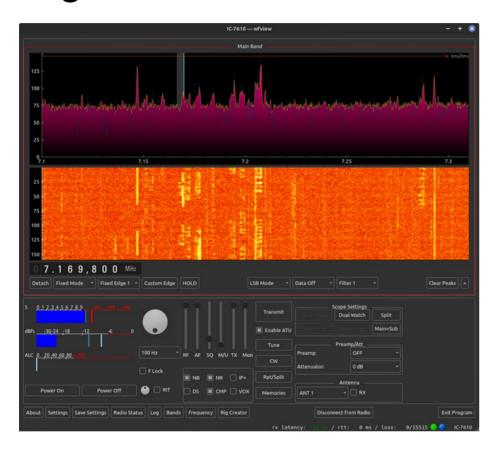
#### Rig Control – Remote View with/ Wfview KC3YFZ





Server and Client Setup Guide Network Router setup.

Video:

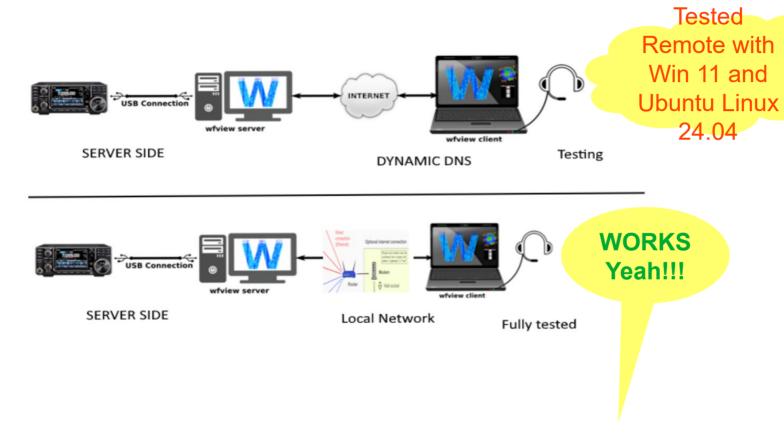
https://youtu.be/tu0UIdYJnuQ?si=wuHli6Q2zAcF6Ig9

# Rig Control – Remote View

#### WHY?

Students can use rig remote for view only
Use a large screen at seminars
Reduce hardware to move
Test concept for others to use a rig remotely
Have the radio room separate from your rig
control.

#### **SUMMARY Test Scenarios**



Install configure wfview as a remote client is an hour

#### WFVIEW Product Test

- Test: ICOM IC7300, A local Win 11 WFVIEW Server, a local Win 11 to same network, Client WFVIEW
- Network: Dynamic Vs Static IP. Port Forwarding, Using Dynamic DNS as alternative to a Static 120\$ fee
- WFVIEW: Free Supports Kenwood & Icom.

# Requirements

- Rig control SSB voice
- Security, granular control. 1-view no control, Mid range control and Fu Control
- Lightning arrest on USB and other joined cables from rig and Server.
   25 KVA. Add Insurance
- Logs to help diagnose
- Forums and Support
- Remote Control (Wfserver to Rig) (Wfserver Client on same network)<sub>SD05 https://www.semtech.co</sub>
- PING, PORT Diagnostics via tools

SD05 https://www.semtech.co m/products/circuit-protection/e sd-protection/sd05

WIRE MAP

# TESTS FOR Dynamic DNS rubber meets the road

- FIOS Config at home Router
  - Setup Port Forward
    - Setup a static IP on the WFSERVER (xxx.xxx.xxx.207)
  - 3 Ports 50001, 50002, 50003
    - Logs will help to diagnose at WFVIEW

# TESTS FOR Dynamic DNS

#### Advanced: Port Forward rule wfview server ip

wfview	50001	Both	207	50001	Always
wfview	50002	Both	207	50002	Always
wfview	50003	Both	207	50003	Always

### Log>> INF udp: UDP Stream bound to local port: 56507 remote port: 50001

Got Radio 0

2025-09-11 20:59:37.775 INF udp: Find available local ports

2025-09-11 20:59:37.777 INF default: Received serial port baud rate from remote server: 115200

2025-09-11 20:59:37.777 INF default: Changing queue interval to 100 ms

2025-09-11 20:59:37.777 INF system: Delay command interval timing: 100 ms

2025-09-11 20:59:37.779 INF udp: Starting udpCivData

2025-09-11 20:59:37.779 INF udp: UDP Stream bound to local port: 56508 remote port: 50002

2025-09-11 20:59:37.779 INF udp: Starting udpAudio

2025-09-11 20:59:37.779 INF udp: UDP Stream bound to local port: 56509 remote port: 50003

# Tests part 1

- The test using browser will give you warnings that it is not HTTPS. Ignore.
- Test 1 (browser) check xxxx.myddns.me xxxx BARC wil tell you.
  - If test works Fios Router photo and Login appears
- Test 2 (browser) check dynamic IP. Xxx.xxx.xxx.xxx BARC will tell you.
  - If test works Fios Router photo and Login appears

# SCAN PORT Domain / IP BARC Supplied Port Type Custom Ports Ports 443,50001

#### Tests Part 2

- Test 3 (browser) Use https://dnschecker.org/port-scanner.php. In Domain/IP replace with BARC supplied dynamic ip. In the port window 443, 50001
- The Result: Port 443 should be OPEN
- PORT 50001 will be closed/timed out if the WFSERVER is not up. Normal.
- PORT 50001 will be open when th WFSERVER is up. Requires
   15 to 30 mins to perform the test of remote. Coordinated by CELL



# Test part 3

- Test 4 -Ping
  - https://dnschecker.org/ping-ipv4.php
- Ping the Barc supplied dynamic DNS name
  - Result to pass Server IP display, and ping pass
- Ping the Barc supplied dynamic IP
  - Result to pass Server IP display, and ping pass

#### WFVIEW TEST

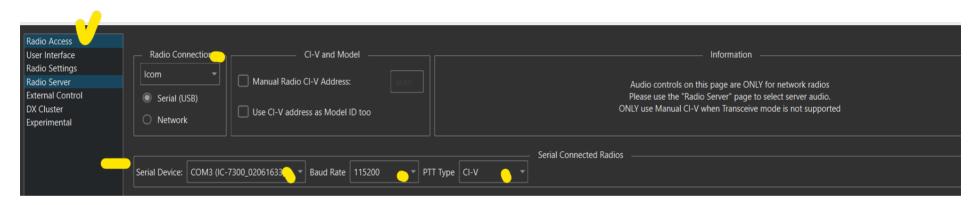
- Requires WFVIEW
  - manual https://wfview.org/wfview-user-manual/
    - Testing Win 11 Server and Client only need client.
      - wfview Open Source interface for Icom and Kenwood transceivers
      - Download (Win, Mac, Linux) Windows test is preferred for phase 1 test.
         Phase 2 linux as client completed. Phase 3 Mac

# WFVIEW Settings

- Follow quick start guide.
- https://wfview.org/wfview-user-manual/getting-started/
- ICOM 7300 settings https://docs.google.com/presentation/d/1L7R5kuRm-3 afzIbbl8Z1h7XHAc\_\_U4Mt9795nZiHHW4/edit?slide=id
- Took me 8 hrs to learn what I have so far documented here.
  - Settings for the RIG. For ICOM nice detail on the site wf site.

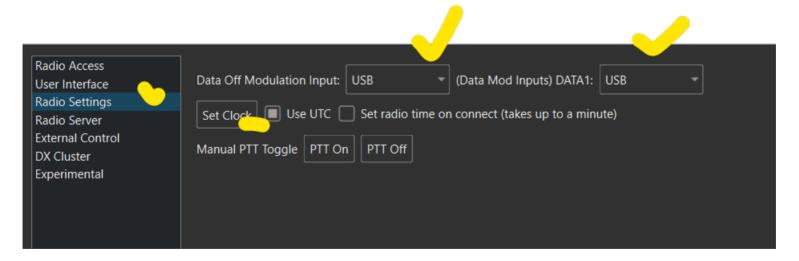
# ICOM 7300 Server Setup

Follow the setup above before building the server.



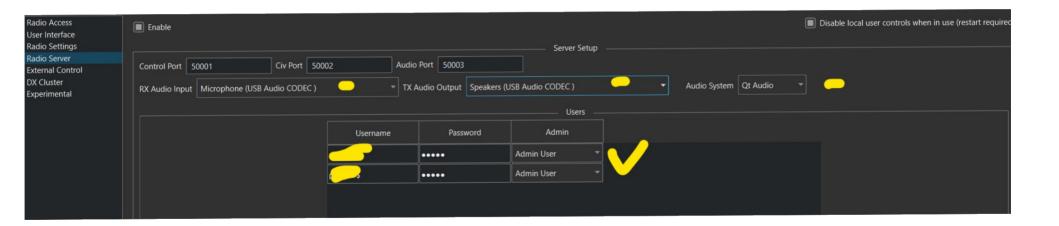
# Radio Setting

USB can only be set with radio WFVIEW started. USB setting allows the sound and mic to pass via the server to/from client

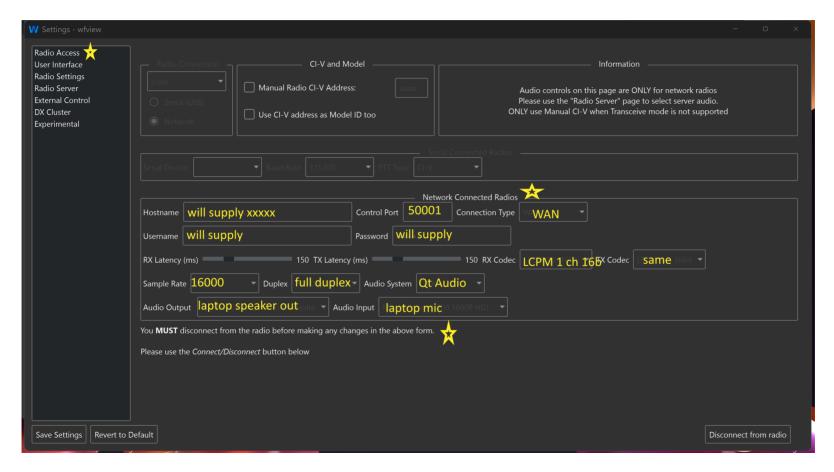


#### Radio Server

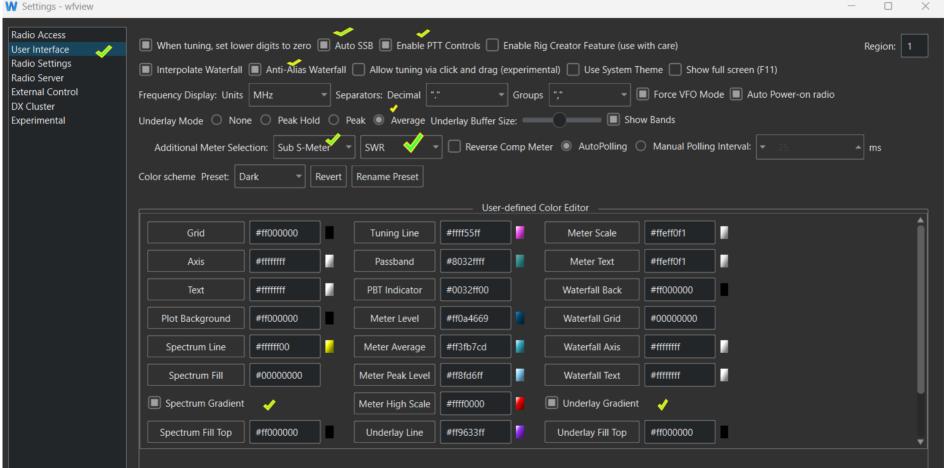
User name and password for each user. Admin means all control. We need to test the admin role of no transmit.



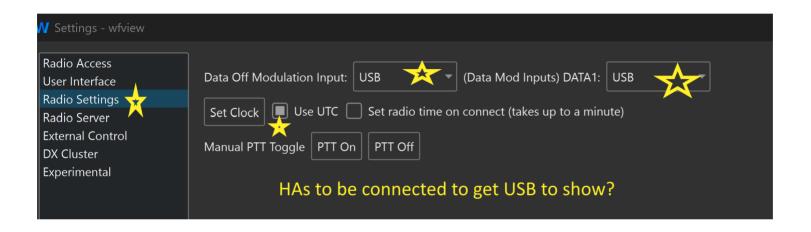
# Remote Client Setting



#### User interface colors waterfall



# Radio Settings Remote Client



#### Remote Test Oct 13 2025

- Tested remote with win 11
- Tested remote with Ubuntu Linux
- SSB 10-80 M
- CW
- Transmit SSB tested

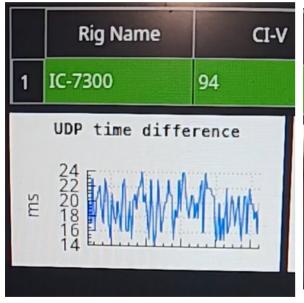
#### STATS

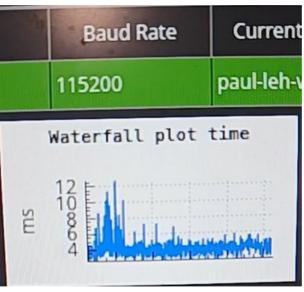
- Linux Ubuntu Client
  - RX Delay 158 ms RTT 18 ms Lost packets (Zero 0)

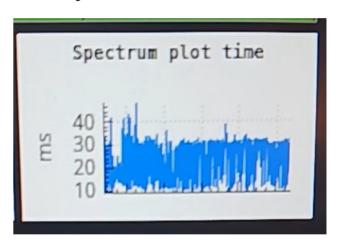
```
rx latency: 158 ms / rtt: 18 ms / loss: 0/130580
```

# Time Waterfall Spectrum delay

UDP time sync, add time sync (dimension4)/chrony linux







# WSJT-X Digital

 Requires VAC https://vac.muzychenko.net/en/index.htm

