

REMOTE RIG CONTROL VIA IPHONE

by Dennis Gregory, WU6X – Applications by Howard Nurse, W6HN

WHY WOULD YOU DO THIS?

➤ All the usual reasons ...

- ❖ Convenient way to monitor a net away from home
- ❖ Operate while on vacation – Nothing to pack
- ❖ Astound your non-ham friends 😊
- ❖ Hi-tech hobby, or ... is it just cool?

➤ Plus some new ideas?

- ❖ DX spotting ... portable style!
- ❖ QSY to a DX spot instantly



MINIMUM REQUIREMENTS

- iPhone (3GS+), iPod (3rd gen+) or iPad (iOS4)
 - ❖ CommCat Mobile – free iPhone app
 - ❖ 2 Skype accounts – free
 - ❖ Internet access (Wi-Fi or Cellular)
- In the Shack
 - ❖ CommCat or Ham Radio Deluxe
 - ❖ Wideband Internet connection
 - ❖ Signalink, Rigblaster, etc.
 - ❖ CAT controllable radio



FEATURES AND FUNCTIONS

- Transmit/Receive on All Modes
- Built-in CW keyer, with Macros
- Watch DX spot activity
- Spectrum analyzer
- Send email to other hams
- Mobile logging
- Automatic webpage updates
- Rotor control



WHAT DOES IT LOOK LIKE?

The screenshot displays the CommCat (LOGBOOK: Main) application window. The main interface is titled "Tuner" and features a digital display showing a main frequency of 14.214.10 and a sub-frequency of 21.350.00. The display also includes a "Main" section with a large digital readout of 14.214.10 and a "Sub" section with 21.350.00. Below these, there are buttons for "Beacon", "Ham Bands", "Broadcast", "ALL", "WWW", "Beacons", and "Clear".

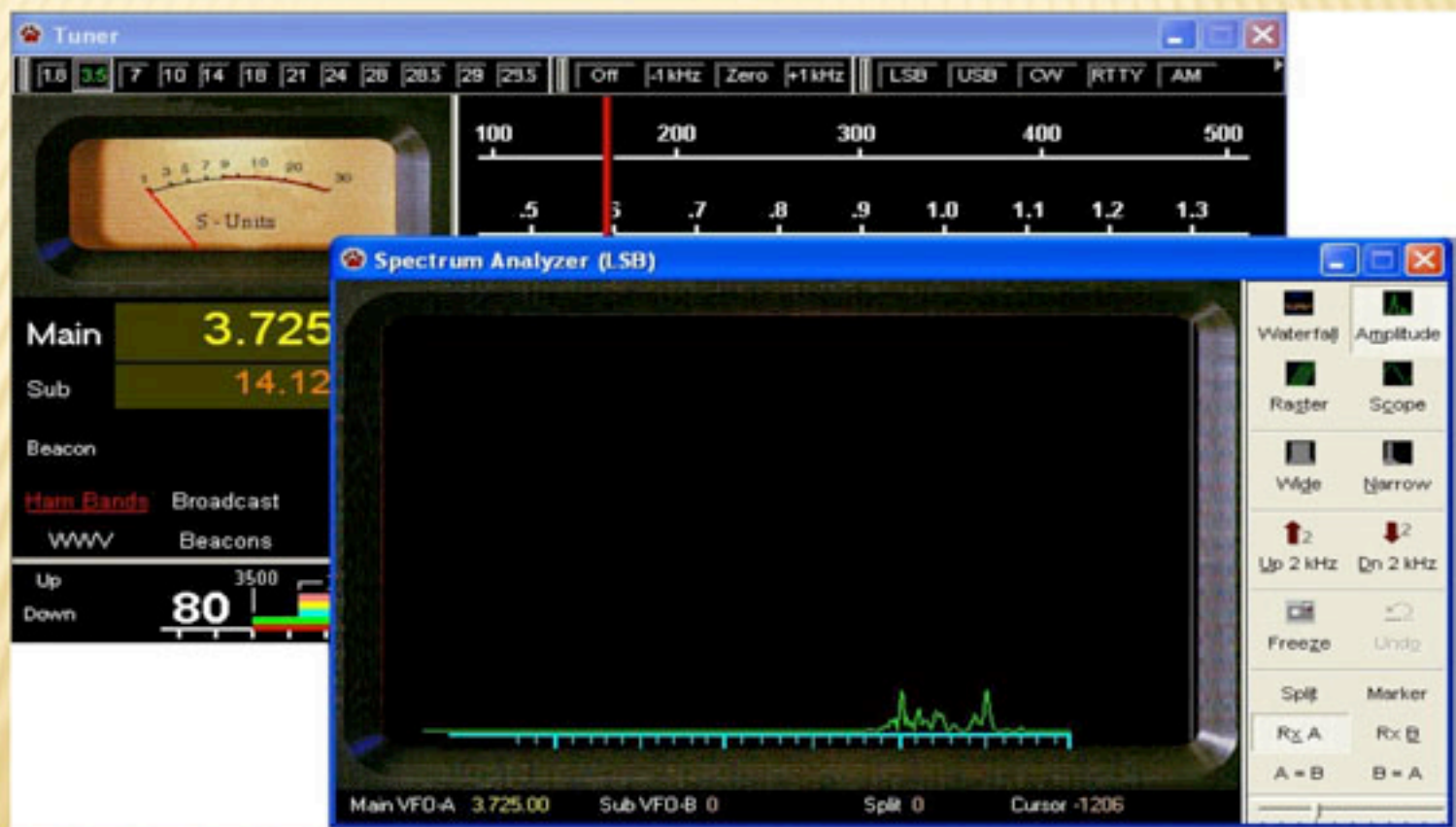
The right side of the interface shows a spectrum analyzer with a frequency scale from 100 to 500 kHz. The display shows several signal traces, with a prominent red vertical line indicating the current frequency. The traces are labeled with numbers from 1 to 30, and the frequency scale is marked in increments of 0.1 kHz.

At the bottom of the interface, there is a status bar with several indicators: "A = 14.214.10", "Net OK", "Live Waiting...", "Telnet Waiting..", "TNC Waiting...", and "Rig A Online".

WHAT DOES IT LOOK LIKE? – (CONTINUED)

The screenshot displays the CommCat software interface. The title bar reads "CommCat (LOGBOOK: Main) 3W9IHRN Vietnam". The menu bar includes File, Edit, View, Tools, Awards, Reports, Window, and Help. The Tools menu is open, listing the following options: DX Spot Manager (F6), Band Spotter, Instant Web, Circle Map, Tuner, Spectrum, Tracker, Morse Code (Ctrl+K), Logbook, Web..., Telnet..., Packet..., and Accessories. The main window is divided into several sections: a Tuner section on the left with a frequency display (1.8, 3.5, 7, 10, 14) and a spectrum plot; a central section with a frequency scale from 0.5 to 1.3 MHz and a mode selector (LSB, USB, CW, RTTY, AM); a lower section with a frequency scale from 20 to 30 MHz and a mode selector (Broadcast, FILL, Beacons, Clear); and a bottom section with a frequency scale from 14000 to 14500 kHz and a mode selector (Up, Down). The interface is dark-themed with red and yellow highlights.

WHAT DOES IT LOOK LIKE? – (CONTINUED)



IPHONE SCREENS

AT&T E 8:30 78%
Spots (50) Tuner

OH0TA de K3FT QSX 18148 50 up 5	Aland Is.	18143.0	1627
LX75RL de 2E0CNL	Luxembourg	7191.0	1627
I2FAK de OH4LA Trx EME qso best -15dB HNY :o)	Italy	144125.0	1627
TR8CA de N6ML CQ	Gabon	28040.0	1627
IT9VPT de 2E0EET		14218.0	1627
DS4DBF de LY7M	South Korea	3510.0	1626
MU0FAL de W3LPL	Guernsey	18076.0	1626
J39BS de KK4BDE	Grenada	28445.0	1626
5N6/YL2SW	Nigeria	21002.1	

SFI=136 A=5 K=5 N=118 **1630z**

AT&T E 8:30 78%
Tuner Logbook

Radio: CommCat **14218.0** **14218.0**
Main MACRO 1 Sub

IT9VPT Mode **USB**

A>B A>M M>A Split OFF

Tap/Rotate to Tune

.1 1 10 Band Mode Macro
KEYER >SNN< TU ESC

AT&T E 8:21 77%
Logbook Add QSO

IT9VPT

K9WZB SSB **7155.0**
Garry Fisher 12-Nov-2011 1520

Order: Latest First **1621z**

MYQSX.NET – FREE WEBSITE

CommCat **QXer**

WU6X

Find Call

Propagation SFI:136 A:5 K:1 SSN:118 10:18 Saturday, January 7, 2012

Now on **21.088.00 MHz**

USB

Dennis Gregory

Auburn, Placer, California, US

DXCC Entity Number:

Grid Square: CM9BKW

Last QXer Note:

My Home Page: <http://www.qrz.com/db/WU6X>

UTC time: 1818 WU6X local time: 1018

Antenna: My Antenna

Rig: My Radio

Program: CommCat Mobile

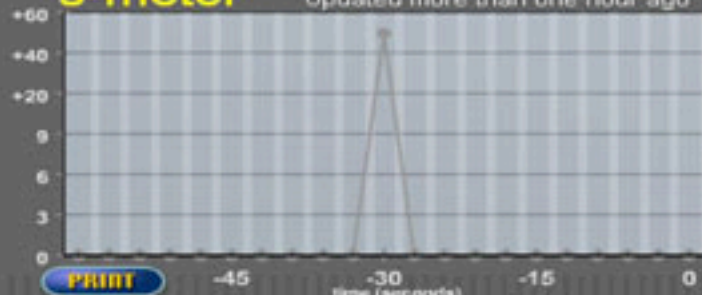
[Go to MyQSX Activity Map](#)

About WU6X

Lot's of new things happening at WU6X, like remote station control and operation via iPhone.

s-meter

Updated more than one hour ago



The QXer S-Meter shows 60-seconds of peak readings from WU6X. Ask WU6X to update the graph to see the latest readings.

Send e-mail to WU6X

Complete the form and click [Send e-mail to WU6X](#). Let WU6X know you want a QSO.

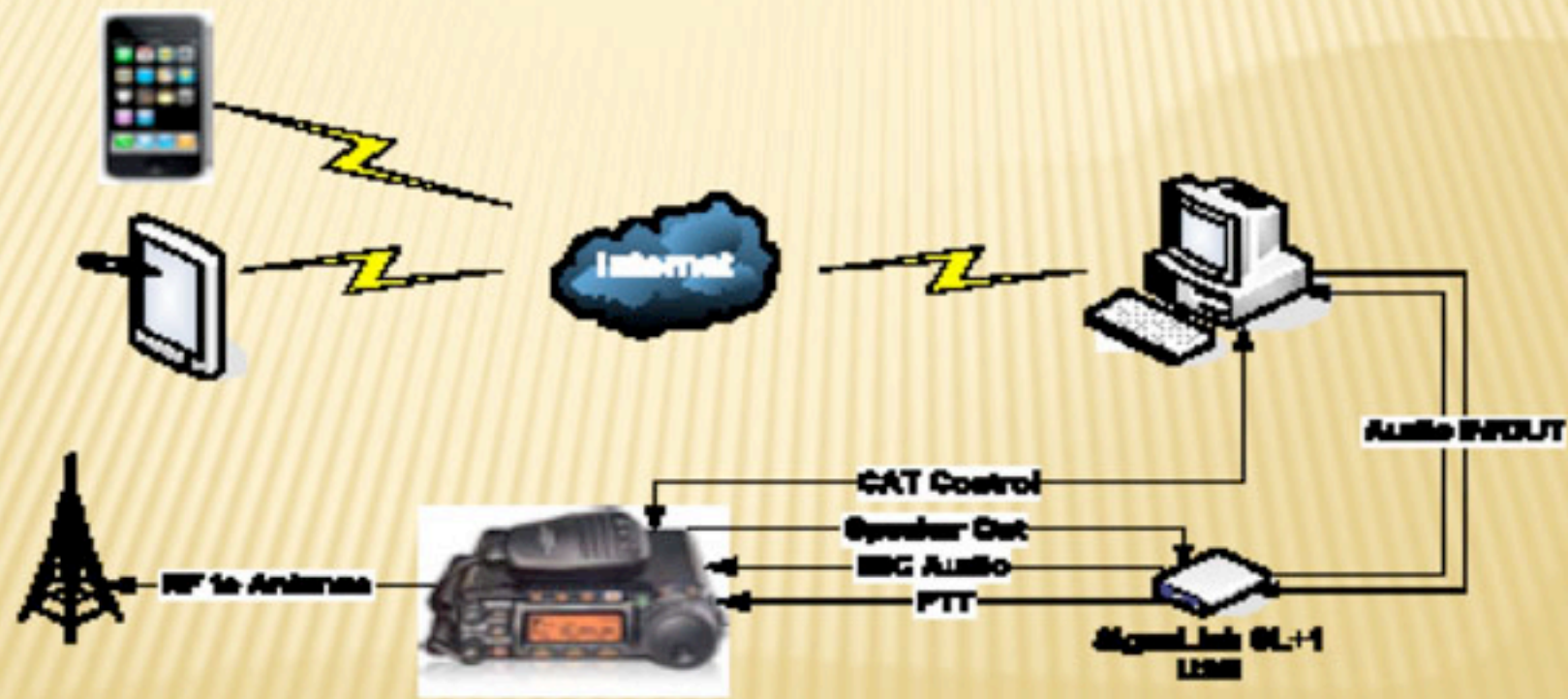
My e-mail address

My callsign

Message to WU6X

[Send e-mail to WU6X](#)

CONNECTIONS



SUPPORTED RADIOS

Yaesu	FT100D, FT747GX, FT757GX, FT817, FT847, FT857, FT897, FT900, FT920, FT950, FT990, FT1000, FT1000D, FT1000mp, FT1000 Mark V, FT2000, FT-dx9000
Kenwood	TS440s, TS850, TS870, TS950, TS2000
Icom	IC706MKII, IC706MKIIg, IC718, IC725, IC735, IC746, IC746PRO, IC756, IC756PRO, IC756 PRO II, IC 756 PRO III, IC775, IC781, IC7000, IC7400, IC7600, IC7700, IC7800
Elecraft	K2, K3, K3 + Sub Receiver
Collins	KWM380
Ten Tec	Pegasus, Jupiter (both with support provided through program such as N4PY), Orion II, Orion III, Omni VI+, Omni VII
Alinco	DX77
Ham Radio Deluxe	Use HRD to control your radio and CommCat to help chase DX, feeding frequency and mode data to HRD
Flexradio	PowerSDR Native

COST AND REFERENCES

➤ Cost

- ❖ CommCat (desktop) = \$25, donated to SFARC
- ❖ Signalink = \$87 plus \$13 cables = ~\$100

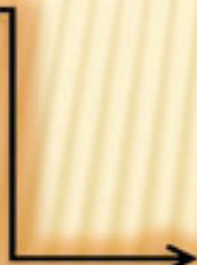
➤ References:

- ❖ Howard Nurse – W6HN (see QRZ.com)
- ❖ HELP Files: <http://www.myqsx.net/ccMHelp>
- ❖ CommCat: <http://www.commcats.com>
- ❖ QSXer: <http://www.QSXer.com>

DEMONSTRATION



KG6LSB/
Portable



WU6X

