

Remote Amateur Radio Over the Internet

Bruce Elbert
K6ZB
(k6zb@arrl.net)



Operate HF from your Hotel or Condo

Remote site needs:

- Windows laptop (Mac?)
- Decent Internet connection (WiFi or Ethernet)
- Speaker or headphones (USB preferred)
- Microphone (for SSB)
- CW – use laptop keyboard



The Base (Home) Station



Simple – gets you on the air

- K2 (or other radio with CAT)
- Basic fixed antenna (dipole or vertical)
- PC running Ham Radio Deluxe
- Sound card interface (Rigblaster +)
- Interface cable



More capable – QRO and all bands

- IC 756 PRO 3 and PW1 amp
- Screwdriver with controller
- PC running TRX Manager
- SingaLink USB
- Interface unit and cables



Screwdrivers

- Predator (N9JMX)
- High Sierra 1800
- Hi-Q
- Scorpion

These screwdrivers are BIG and can take a full 1.5 kW.

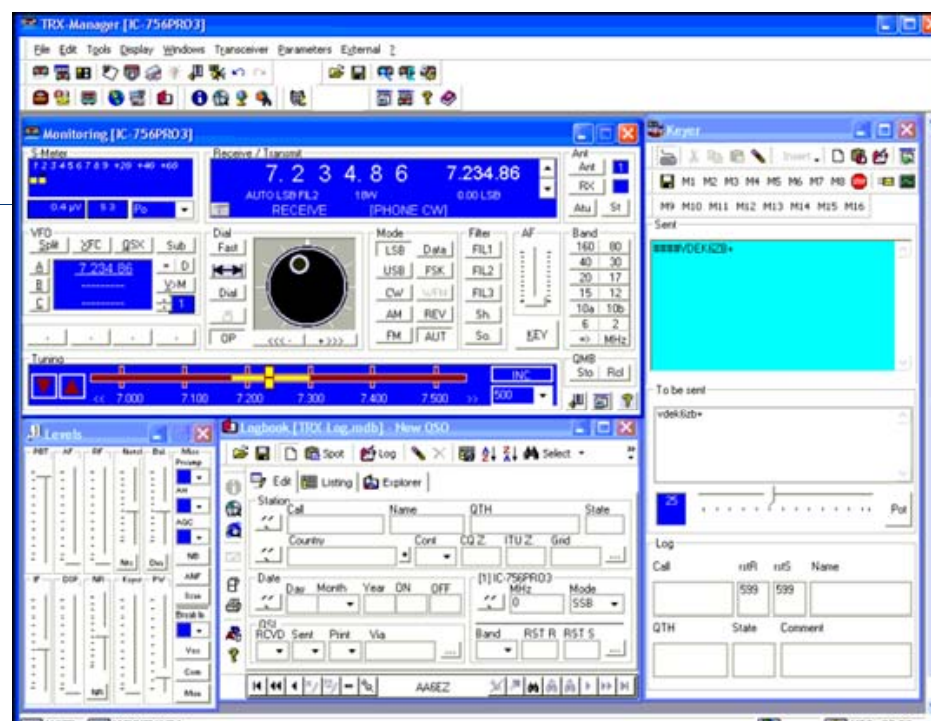
Operation on 80 through 15 meters.

They are remotely controllable using devices by MFJ (Ameritron).

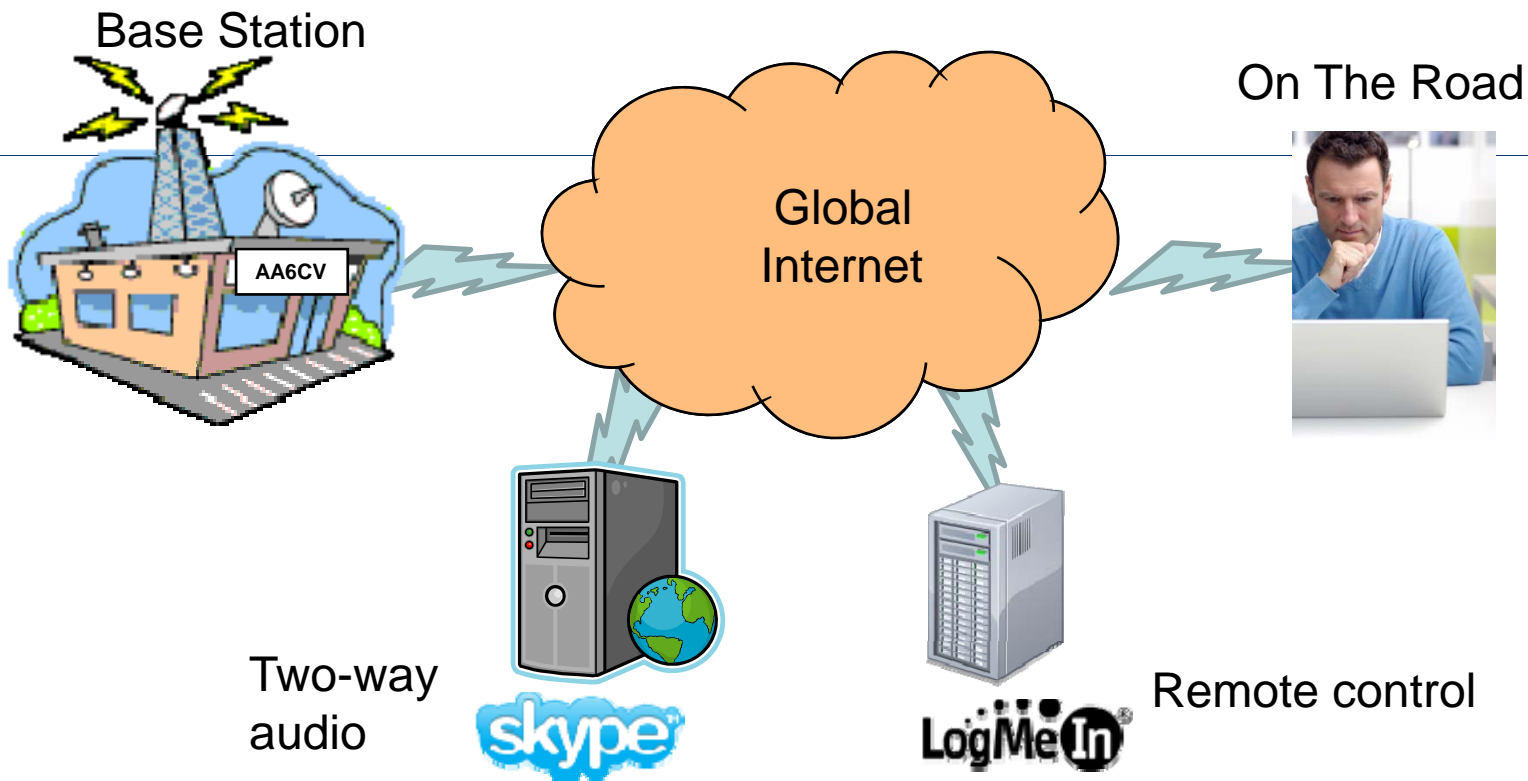


Control your Rig from your Computer (CAT)

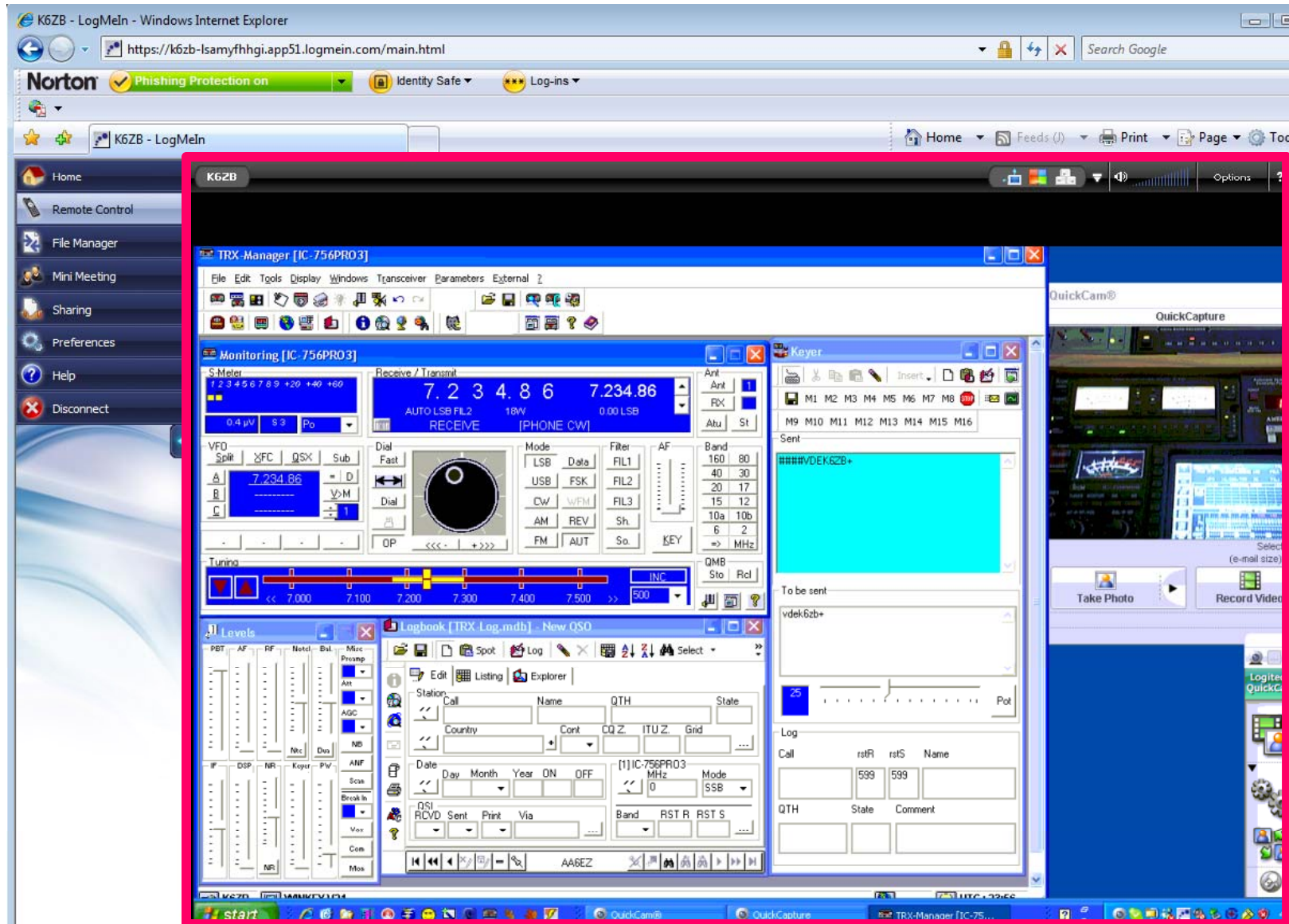
- Modern radio CAT features
 - Read the current frequency
 - Change bands and modes
 - Change various settings
 - Operate using your PC
- Common uses:
 - Automated logging of QSOs
 - Digital modes
 - Contesting
 - Remote control



Basic Connections



Desktop using LogMeIn.com

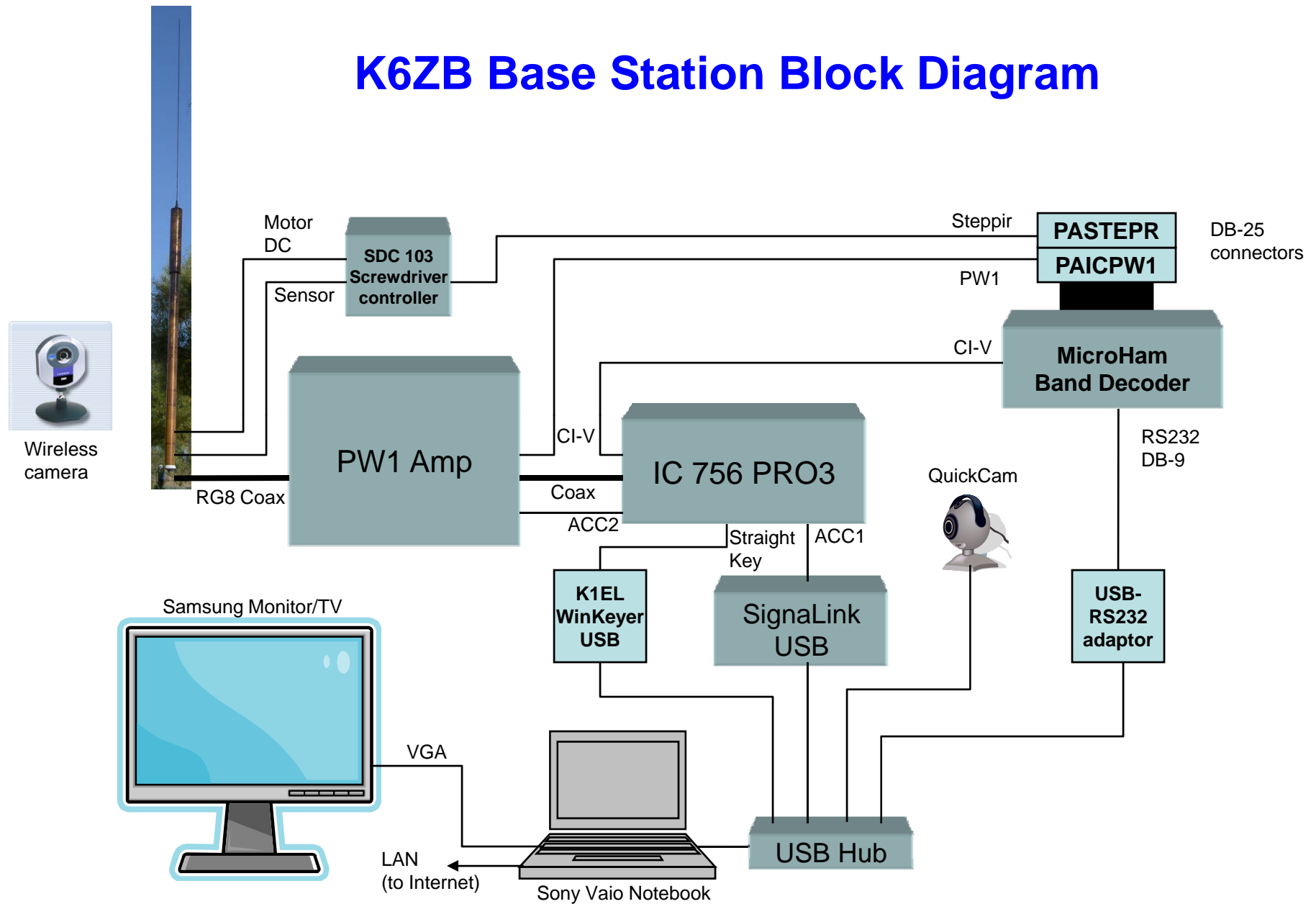


Setting This Up

- Your radio must be CAT enabled
- Connect it to your PC
- Get rig control software working
- Develop a sound card interface
- Register and use LogMeIn.com
- Register and use Skype
- Test and try



K6ZB Base Station Block Diagram



Remote Control Demo

