

PACIFICONSM 2026

ARRL Pacific Division Ham Radio Convention
Produced by the Mount Diablo Amateur Radio Club



Remote Operation of Your Ham Radio Station

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These slides, and more, are at my website k6ufo.com

Schedule: 8:00 Get seated, early questions.
8:10 K6UFO on basic needs, and common approaches.
8:25 NN6U on "Real World" experience.
8:40 Q & A

Summary: Research, plan, build, test, revise.

View and try available solutions: Flex, Elecraft, RemoteTX, RHR, RemoteHams, ...

For your station: Use a remote-capable radio (USB or ethernet connector).

Use radio or SW vendor's audio transport, or implement and test. (low delay).

Automate antenna-switching, tuners, amplifiers, etc.

Use a remote PC at the radio shack to handle "remaining or difficult" functions.

Research & Plan

View at Pacificon: Flex, Elecraft, RemoteTX, ...

Using other people's stations is a good learning experience, and a backup.

Receive-only sites: rx-tx.info rx.skywavelinux.com kiwisdr.com/public/ websdr.org

Receive AND Transmit: You will have to register, upload license, and pay \$0 to \$\$\$.

RemoteHams.com has many shared stations and club stations globally.

RemoteHamRadio.com has good stations, free to “youth”, or \$20/month + airtime.

Rules: Remote operators need to be properly licensed for the location of the transmitter. Always follow the rules of the regulatory authority. Must use a call sign correct for the transmitter location. Transmitter location is the location for purposes of LoTW, contest operation, and award chasing.

Consider: Use from home and remote? Reconfigure to go remote?

Accessible garage or mountain-top? How much to carry? Phone, tablet, laptop, radio head, keyer and paddles?

Modes needed: Voice, digital, CW by keyboard or hand keyed?

Basic needs: Audio In/Out: USB port.

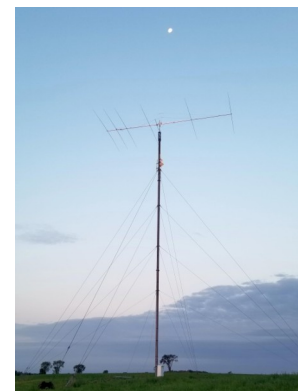
Radio control: USB port plus software UI.

Station control: AC/DC power, switches, rotators, ... (remote PC)

"Good" internet service: low delay! Wired (fiber, cable, DSL) = Good.

Wifi, cellular data, Starlink = maybe good, maybe not, verify!

Fixed ip or DDNS easy. CGNAT and VPNs work, but harder.



Remote with Knobs and Buttons!



K4/O REMOTE

FULL K4 OPERATING EXPERIENCE 1/3RD OF THE DESK SPACE



Elecraft has designed the K4 “front panel” to control another K4 locally or remotely. You can control a K4 to a K4. Or, a K4/O to a K4. They also have a smaller knob box called a K-POD. And software for tablets, laptops etc... Visit their booth.



Remote with Knobs and Buttons! FlexRadio “Maestro”

All FlexRadios are controlled from a software program (SmartSDR) locally or remotely. “Maestro” control panel can also be used locally or remotely. (WiFi or wired) There are also tablet and smartphone apps. Visit their booth.



The image displays three pieces of FlexRadio equipment against a blue gradient background. On the left is the MAESTRO control console, a black unit with a large color touchscreen, several knobs, and buttons. In the center is a FlexRadio 6000 radio unit, a black rectangular device with a small antenna on top. On the right is a laptop computer displaying the SmartSDR software interface, which shows a spectrum display and various control parameters. Above the equipment is the FlexRadio Systems logo, and below it is the MAESTRO logo. To the right of the MAESTRO logo, the text 'Win PC runs digitals' is displayed.

Win PC runs digitals

FlexRadio Systems **MAESTRO** è la nuova console di controllo per i ricetrasmittitori della serie 6000 che permette l'uso immediato dell'apparato **senza bisogno del PC**, tramite connessione alla rete LAN anche WiFi, oppure direttamente all'apparato.

FlexRadio Systems **MAESTRO** è un moderno e funzionale pannello radio dotato di schermo touch, pulsanti e manopole, connessioni per microfono e tasto/paddle con il quale usare l'apparato senza rinunciare alla operatività tradizionale di una qualsiasi apparecchiatura radio, oltre che a permetterne la remotizzazione in qualsiasi punto coperto dalla vostra rete LAN.

If you can't afford an Elecraft K4 or FlexRadio, there are other options:

RemoteHams.com software called RCForb

Icom RS-BA1 software, or Win4Icom(VA2FSQ) or wfview.org

RemoteTX.net Raspberry Pi and software. [Visit his booth.](#)

N4PY.com software, Ham Radio Deluxe software has remote capability.

Any favorite radio control software running on a PC at the radio, remotely accessed by Windows Remote Desktop, TeamViewer, Chrome Remote desktop, ...

Other useful resources:

www.hampost.com/guides/ham-radio-remote-operation-guide
unicomradio.com/ham-radio-remote-operation/
cranbrookarc.ca/2025/11/27/remote-operation-101-setting-up-your-station-for-online-control/
...your favorite AI

YouTube videos by:

AA0Z - Remote Ham Radio - How to Remote Your Ham Radio

VE6WZ - "The control setup at VE6WZ"

FlexRadioSystems VA3MW - Setting up my First HF Remote Station

- HF Remote Operating - Building the foundation

DARA Hamvention - Best Practices in Remote HF Operating

