

# HAM RADIO UNIVERSITY

## REMOTE OPERATING

### Information Sheet

Started running remote from my business with a Tentec Omni 7 and proprietary software from Tentec. It worked but was not easy to use.

Remote rig developed their remote rig twins which worked with many radios. Kenwood and Icom radios with detached heads could use these devices to operate remotely.

Elecraft developed two ways to use remote rigs to run remote. Their system became so effective that k-3 zero and K3 mini became the standard for many contest stations and is used to operate contest stations throughout the world. The results show that remoting is now competitive and has expanded the talented operators able to operate remote controlled contest stations.

With the introduction of Flexradio the remote operating advanced even further. A major goal was to make operating away from the station an everyday event. The use of a PC, Iphone, and Ipad added to the ease of operating remote. Flex developed their own system so that one only needs a good internet connection. Like the k-3 mini they came up with a

device called a Maestro. This portable device is the replica of the face of the M series but only needs an internet connection and no additional boxes making it portable for use in varying situations.

In order to operate remote one needs to be able to control the remote location. To turn power on and off I use a WEMO plug and WEMO app on my Iphone. There are many internet switches available for this purpose.

I use Splashstop to connect to my remote location computer. Teamviewer is another possibility

I have found that the Green Heron Engineering products to help in controlling antenna rotation and antenna choices. They have a really excellent rotator controller (RT-21) which seems to be very popular. Their Green Heron Everywhere switches and controls allow easy switching for different antennas.

Today we are lucky that so many programs help us follow the law. Most AMPS have computer control and logging programs can be used to record our activities

My SPE 1.3 can be turned on and off remotely. It feels like I am in front of my home station as little as a room away or 5000 miles away.

I am always available for further info, suggestions and just general help in this area of ham radio.. 73's Rick, K2RB

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