

# The Radio Hotel – Dissecting Series #4

## What's Inside the SteppIR Vertical?

by Rick W5RH

Occasionally the club has equipment donated to it. Recently, Bob Malley, K4KKA, donated a SteppIR Small Vertical system. I received go thru the antenna and make sure that all our events like Museum ships or Field Day.

The SteppIR Small Vertical (**Pic 1**) covers 20 meters thru 6 meters with automatic fiberglass vertical tube inside of which moves a copper-beryllium tape powered by a motor and sprocket wheel in the base unit shack located control unit (**Pic 3**). 40 meters with the addition of a base loading coil and placed electrically in series with the main vertical system. Radials required, of course.

this from Mike, VCX, and told him that I would was functioning properly so we can use it for After a bit of repair, it is working well.

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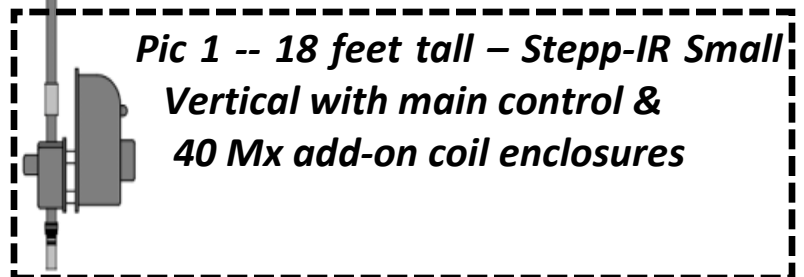
Pic 2 -- Main Control Unit with Cu tape reel



Pic 4 -- 40 Mx Loading Coil Add-on



Pic 3 -- Control Unit Front Panel



Pic 1 -- 18 feet tall – Stepp-IR Small Vertical with main control & 40 Mx add-on coil enclosures

**November Meeting Show and Tell.** I will have this “new to BVARC” vertical system on display and opened up at the November 14<sup>th</sup> meeting. You’ll be able to see the internal workings of the system and how it is set up.

Enjoy your hobby. 73...Rick – W5RH

**Next time.... All I Want For Christmas**

The purpose of **The Radio Hotel** is to give you a practical kickstart into exploring the workings of antenna systems. Google the buzz words and find out what they mean. Read up on antenna system theory to see how it all works together. You will be glad you did.