Alternative to Solar Scope

- Not everyone has a
 Dedicated Solar Scope
- Always lots of White Light Filter Scopes Set Up



• What can I do that's " **DIFFERENT**"?





Build an Itty Bitty Radio Telescope



Old Satellite Dish







Any Dish will Work



Dual LNB (A low-noise block downconverter)



- LNB Should have at least 2 Connections
- 1 for Connecting to Detector
- 1 for Later Use





Coax Cable



Detectors or Finders









18V Power Source



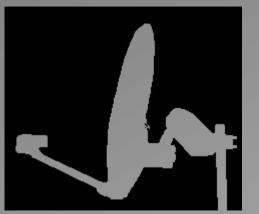


- 2 x 9 volt Batteries
- Some Wire
- 2 x 9 volt Battery Connectors
- Coax Cable with ends

The Simple Build

- Make your 18 Volt Power Supply
- Connect to Satellite Detector
- Connect Detector to Satellite Dish
- Point at the SUN

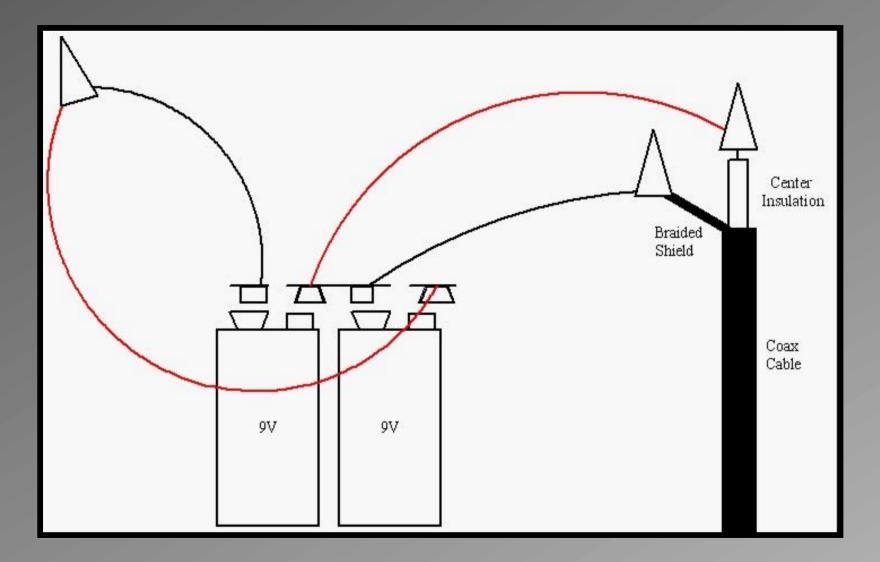






Battery Pack Schematic

Red – Positive Black - Negative



Connect Battery to Finder



- Connect 18v Battery to Satellite Receiver side of Satellite Finder
- Connect Satellite Dish LNB to Satellite side of Satellite Finder

How to mount

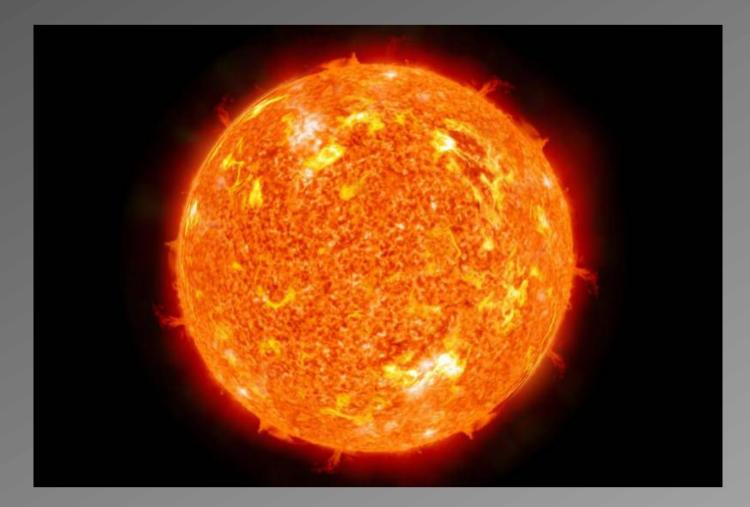
- Adding a Vixen Dovetail Bar
- 2 X 1⁄4 x 20 Bolts
- Drill holes and bolt to Dish Arm
- Allows for mounting on EQ Mount



Mount Satellite Dish to EQ Mount



Point Satellite Dish at the Sun



Watch for the Sun

- Point Dish Toward Sun and Watch for Change to the Satellite Finder.
- Needle will move
- Graphic Slide will Increase

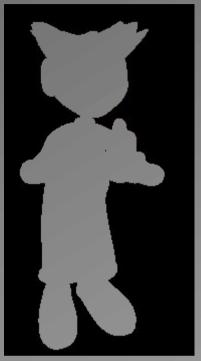




MIKEGUYVER

Going 1 Step Further

- Add an SDR Dongle to the Second LNB Connection
- Modify coax cable to connect to Dongle Antenna
- Connect SDR Dongle to Laptop or PC
- Run Software Defined Radio Software
- Watch the Waterfall for changes.

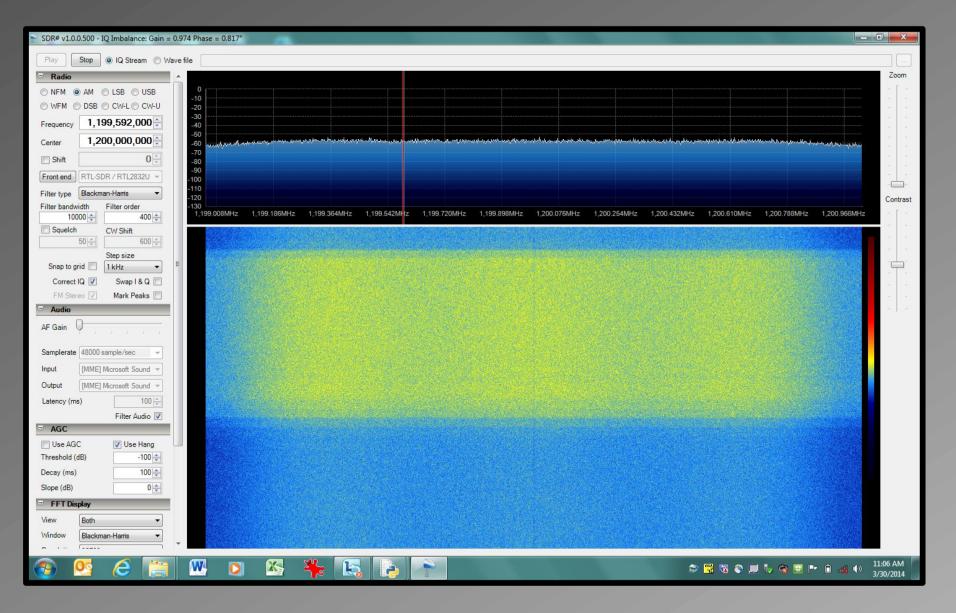


Add SDR Radio Dongle





Software Defined Radio Software



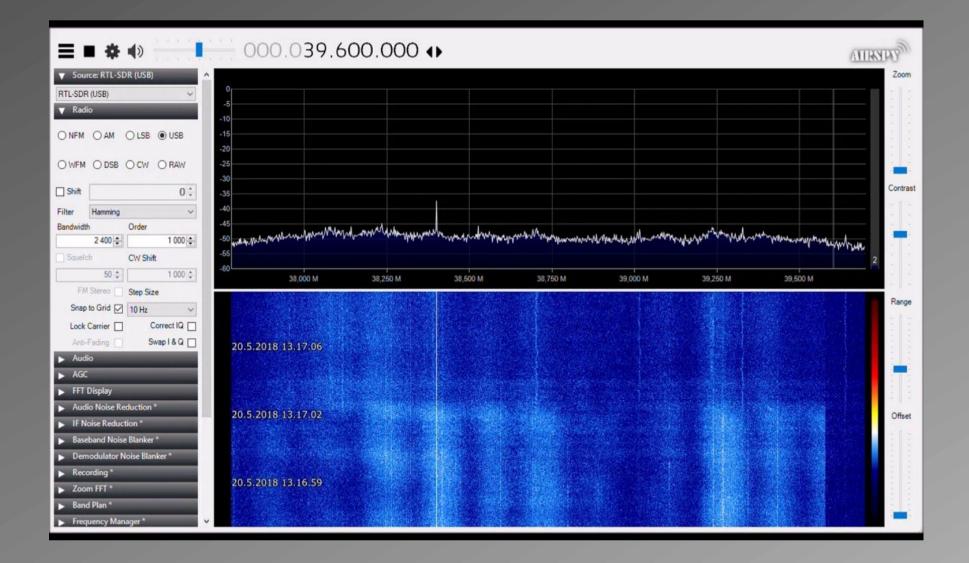
Free Software

Example of Connection



SDR Dongle plugs into Laptop or Computer. Other end plugs into the second Connector on the LNB.

Sun at 39.6MHz with rtl-sdr usb dongle



ENJOY the Sun

8