



Homebrew Group Newsletter
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The path to a complete satellite station affords many opportunities for “home-brewing”. Preamps, computer interfaces, SDR receiver and/or transmitter are some of the areas for experimentation but the most important of all are the antennas.

A simple station might just use a dual band vertical but as the desire to access more and more of a given pass grows the antenna farm quickly progresses to tracking yagis and circular polarisation. The question then arises: “Why do I need to then switch polarity?”

The following link to a YouTube might help to explain:

https://www.youtube.com/watch?v=1VPfZ_XzisU

PE0SAT demonstrates on a live satellite pass

<https://www.pe0sat.vgnet.nl/antenna/polarization/>

PA3GUO shows one way of doing it

<http://pa3guo.com/polarizer.html>

Roy VK4ZQ provides a “How To” for satellite comms.

<https://vk4zq.wordpress.com/2016/09/24/having-fun-with-amateur-radio-satellites/>

From M0PZT HF Baluns to make

<http://www.m0pzt.com/baluns/>

Also from M0PZT a nice logging program

<http://www.m0pzt.com/pztlog/>

For the SOTA enthusiast a 2meter beam. Note the element mounts!

<https://m0ukd.com/homebrew/antennas/144mhz-2m-portable-yagi-vhf-beam-antenna/comment-page-2/>

Another project for that 3D printer.

<https://qrznow.com/3d-printing-a-ham-radio-dipole-center/>

The cobweb antenna for small blocks.

<http://karinya.net/g3txq/cobweb/>

Another antenna modelling program homebrewed by VK3DIP

<http://www.yagicad.com/yagicad/YagiCAD.htm>

Loop antennas that hang from trees.

<http://kt4qw.com/docs/17loop.pdf>

A nicely documented design process for an amplifier on 472kHz.

https://www.george-smart.co.uk/radio/472_khz/472_khz_transmitter/

A two meter SSB transceiver in French!

http://f6feo.homebuilder.free.fr/transceiver_PICARDY.html

A notch filter for pager interference.

[Build a 2m Intermod Notch Trap](#)

Computer controlling your ICOM rig.

[USB to CI-V Interface](#)

Summer brings lots of sun, now how to utilise it.

<https://www.homemade-circuits.com/homemade-solar-mppt-circuit-maximum/>

A mobile/portable rig mount.

<https://www.k7su.com/mount.html>

Please send your newsletter contributions to:

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A thought for the week:

“I put my heart and my soul into my work, and have lost my mind in the process.”

Vincent Van Gogh

73's

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