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January 2014

Volume 98 Number 1

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Technical

Cooking Up an HF Amplifier from Microwave Ovens 30

Matt Kastigar, W0XEU, and John Stanley, K4ERO, with Ward Silver, N0AX

Materials for building a simple HF amplifier may be a lot less expensive — and closer to home — than you think.

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John L. Marshall, WA7BSR

Take a stand against CC&Rs with this multiband antenna that can be quickly set up and taken down.

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Track aircraft by reprogramming an inexpensive digital TV USB stick to receive Automatic Dependent Surveillance-Broadcast signals.

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Build this az-el rotator system for tracking satellites.

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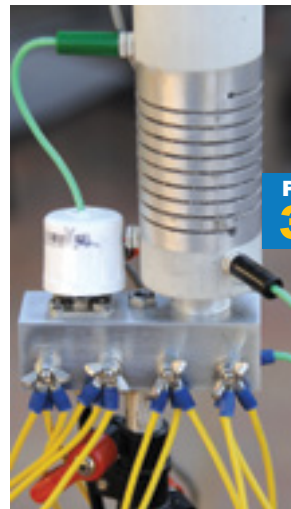
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Your classic transmitter can rival the signal quality of a modern transceiver with this VFO.

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Yaesu FTDX1200 HF and 6 meter transceiver.



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Rick Lindquist, WW1ME

FCC back to full complement of commissioners, news on FCC rulings, Amateur Radio response in Colorado and the Philippines, election news, and more.

Our Cover

ARRL Technical Advisor and Lab Volunteer Martin Ewing, AA6E, works on his "Tiny Python Panadapter" code, which is designed to run on most Linux-based computers. One version is on a Raspberry Pi microcomputer taking data from a USB dongle VHF receiver. A second version runs on a BeagleBone Black (hidden behind the 4 inch LCD screen) receiving I/Q signals from an Elecraft KX3 transceiver.



January 2014
Volume 98 Number 1

QST (ISSN:0033-4812) is published monthly as its official journal by the American Radio Relay League, Inc, 225 Main Street, Newington, CT 06111-1494, USA. Periodicals postage paid at Hartford, CT, USA and at additional mailing offices.

POSTMASTER: Send address changes to: QST, 225 Main St, Newington, CT 06111-1494, USA. Canada Post: Publications Mail Agreement #40612608. Canada Returns to be sent to Bleupich International, PO Box 25542, London, ON N6C 6B2.

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Indexed by Applied Science and Technology Index, Library of Congress Catalog Card No: 21-9421.

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John "JK" Kalenowsky, K9JK

This year, the UHF contest was an opportunity for friends and loved ones to operate together.

Working the School Club Roundup on VHF 84

Andy Milluzzi, KK4LWR, Troy Simpson, W9KVR, Neil Rapp, WB9VPG

With the help of the VHF bands, students engage their communities during this HF operating event.

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