



RF



ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LXII NO. 09

P.O. BOX 3454, TUSTIN, CA 92781

September 2021

The Prez Sez...

By Nicholas AF6CF



September is here, and while we wait for the final Field Day numbers for our group from the ARRL, we have great activities planned for the rest of the year. Our speaker this month will talk about the history of one of the great HAM Radio places, the "Toy Store". This would be a great presentation. Next month we were supposed to have the annual Club Auction; an opportunity to clear your garage of "junk" (spouse's term) or "treasures" (our definition). Or even buy some rare object for pennies on the dollar. Unfortunately, we were unable to secure a proper venue for this activity, so the Club Board of Directors has decided to postpone it until February next year.

In the meantime, we will set up a stand at the TRW Swap Meet to offer all the equipment that was donated from the SK members and friends. Also, we

will offer some items at QTH.com and our website's "For Sale" page. Please support the Club if you need to purchase any radio related items.

Remember that the November general meeting, in a couple months, is also our elections night, and all the Board of Directors positions are up for grabs. Our Club has a term limits policy that precludes any individual to stay more than two years in any given position on the Board, so this is your chance to help the Club by becoming a Director, or even President. If you feel that you can fill a seat on the Board, please contact the Elections Committee (composed of AF6CF, N6GP and W6WG) or any Board member to get into the candidate's list.

Mark your calendars for our Christmas party on December 10 at 6 PM, with more details to come.

As usual, hope to see you all at the next General Meeting.

73 DE AF6CF

NEXT MEETING

September 17th, 2021

Join us Via ZOOM at 7:00PM!
Current OCARC members will receive an EMAIL with instructions. Early check-in available at 6:30 PM(+/-)

Janet Margelli –
KL7MF

on

"The History of Ham
Radio Outlet"

SPECIAL NOTICE:

During the COVID-19 pandemic
ALL OCARC Nets will Remain
Active!
See page 2.

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Monthly Events:

Membership Meetings*



Time: 7:00 PM
When: 3rd Friday of each Month
***See ZOOM announcement pg.1**

Board Meetings

First Saturday**each month 8 AM
New physical location coming soon
**** Board will handle Club business by ZOOM at this time**

Club Nets (Listen for W6ZE):

10M: 28.375 ± MHz SSB
Wed- 7:30 PM - 8:30 PM
Net Control: Corey, KE6YHX

2M: 146.55 MHz Simplex FM
Wed- 8:30 PM - 9:00 PM
Net Control: Corey, KE6YHX

75M 3.883 MHz LSB
Tue @ 8:00 PM
Net Control: Corey, KE6YHX

CATALINA AMATEUR REPEATER ASSOCIATION (CARA)
147.090 MHz (+0.600 MHz) No PL
Monday - Friday
9:00AM and 9:00PM

Prg. Director. Tom W6ETC
NCO's include: Jeff: KK6TRC;
Don W6ZZW, Chris KF6LEX
John AJ6F; Milt N6MG;
Doug AD4AL; John KB6OVO

OCARC 2021 DUES

Membership period is:
1 January to 31 December

| | |
|----------------------------|-------|
| Individual New or Renewal: | \$30. |
| Family New or Renewal: | \$45. |
| Teen New or Renewal: | \$15. |

New Member Dues are prorated quarterly and includes a badge:
Additional Badges: • \$ 3.
Use one of our interactive online forms to calculate current prices, join the club and/or order badges:

Online Forms / Dues & Badges

• \$3. plus mailing costs if applicable
Dues are subject to change without notice

Heathkit of the Month #A06:

by Bob Eckweiler, AF6C



BOOK REVIEW

HEATHKIT – A GUIDE TO THE AMATEUR RADIO PRODUCTS (Third Edition) 09/2021

by Chuck Penson - WA7ZZE

Introduction:

Chuck Penson released his first book in 1995. It was the first edition of **HEATHKIT, a Guide to the Amateur Radio Products**, and after in a short period of time it sold out. Chuck, instead of printing more copies, started on a second edition of the book making numerous additions and updates, and adding new appendices.

The second edition of the **Amateur Products** book¹ was printed by CQ Communications and released in May 2003. Unfortunately, due to unknown reasons, the photographs in the second edition were dark and grainy. Even with that, the book sold-out in a few years, though copies could still be found occasionally². Copies of both editions were scarce, but used copies could be found on Amazon and eBay, often listed at ridiculous prices³; one wonders if they ever sold at those prices?

Penson's third book **The Titan II Handbook - A Civilian's Guide to the Most Powerful ICBM America Ever Built** is in its third printing

Here is a link to the index of Heathkit of the Month (HotM) articles:

http://www.w6ze.org/Heathkit/Heathkit_Index.html

1. Notes are found on page 8.

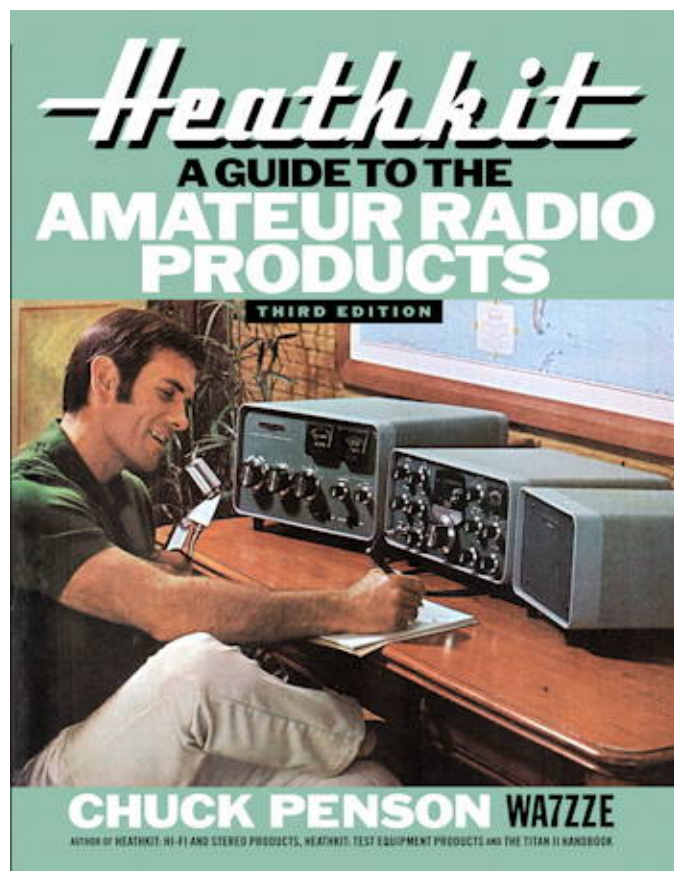


Figure 1: The Cover of the new Heathkit Amateur Radio Products book by Chuck Penson - WA7ZZE.

(2008, 2012 and 2019) with just minor changes between editions. It is available online at <https://titan2handbook.com>. Chuck Penson is the former archivist and historian for the Titan Missile Museum^{4, 5} near Tucson, AZ, now retired.

Book Information:

| | |
|----------------|---|
| Title: | Heathkit A Guide to the Amateur Radio Products (Third Edition) |
| Author: | Chuck Penson - WA7ZZE |
| ISBN (13): | 9 970578 910512: |
| Binding: | Deluxe Softbound |
| Release Date: | September 2021 |
| Pages: | 426 |
| Size & Weight: | 8½" X 11" X 1", 3 lb 8 oz |
| List Price: | \$34.95 |

TABLE I

Heathkit's first products were test equipment so it seemed reasonable for Chuck to feature test equipment in his next book. **Heathkit Test Equipment Products**⁶ published in 2014. This book is available on Amazon and now at Chuck's website⁷.

The test equipment book was followed in 2018 by **Heathkit Hi-Fi and Stereo Products**⁸. In its early years Heathkit went heavily into home high fidelity, and later stereo. It remained heavily in the field until the eighties. This book is also available.

The New Heathkit Amateur Radio Products III:

The book came via media mail with a tracking number in a heavy cardboard mailer. Media mail shipping from Pensons website is just \$5 to a US address. Foreign shipping is available. Opening the shipping mailer, the first thing you'll notice is the heft of the book. It weighs three-and-a-half pounds; that is almost twice the weight of the second edition (1 lb. 13 oz.). Some of the additional weight is the additional 98 pages in the third edition. Opening the book you'll see the pages are of heavy quality paper, and the photographs are clear and sharp, as are the numerous technical drawings. Book information is given in **Table I**.

If you are familiar with the first and/or second Amateur Products edition(s), you will notice a major change in the book's layout. In the previous editions the models were shown alphabetically by their model number. In the third edition the models are broken into chapters by category first, and then arranged by model number in each chapter. This is similar to the organization of the Test Equipment Products and HI-FI and Stereo Products books. Should a product belong in more than one category it appears in one in its entirety, and cross-referenced in the other.

Heathkit Amateur Radio Products Third Edition 2021 Book Layout

| Preface Section: | Pages |
|--|-------|
| Dedication | 2 |
| Table of Contents | 2 |
| Forward | 2 |
| Introduction | 6 |
| A Brief History [of the Heath Co.] | 48 |
| Products Section: | Pages |
| 1 HF Transmitters | 24 |
| 2 HF Receivers | 38 |
| 3 HF Transceivers | 44 |
| 4 HF Amplifiers | 14 |
| 5 Tuners | 8 |
| 6 VHF Equipment | 44 |
| 7 Power Supplies | 22 |
| 8 Scopes | 14 |
| 9 Speakers | 6 |
| 10 Meters | 20 |
| 11 Microphones | 6 |
| 12 Accessories | 54 |
| 13 CB Equipment | 24 |
| 14 Clocks and Weather Instruments | 38 |
| Index Section: | Pages |
| [by] Model Number | 4 |
| [by] Product Type | 6 |
| [by] Chronological [order] | 4 |

TABLE II

If you've ever hung out in one of the many Heathkit forums, you're familiar with people asking for help, but giving just a kit model number and no description. The description is important, and saves a lot of labor by those you're asking help from. In this book, if you're looking for a receiver whose model you forgot, you only have to search in the receiver section instead of cover-to-cover.

• The Preface Section:

Don't skip the book's prefaces. After Chuck dedicates this book in memory of Terry Hanson - WAØTWZ and after the T.O.C., is a surprise forward by Chas Gilmore - W8IAI, former Executive Vice President and General Manager for Heathkit. Chas first joined

Heath Company in 1966 and retired in the early nineties. In just a page and a half he brings a lot of insight into the Heath Company.

In the 6-page introduction Chuck briefly explains the timing and philosophy that made Heathkit successful during its heyday. Here also, you will get an understanding of the guidelines that a product must meet to be included in the book and information to help you use the Products Section to its full advantage. Here Chuck also acknowledges those who have contributed to the book, whether it be by providing photographs and other material, proofreading text or pondering the technical questions that arose during the editing.

"A Brief History" [of the Heath Company] is totally rewritten and enhances the history told in the previous edition. Penson spent a lot of time searching for articles about Heath Company and Howard Anthony from numerous newspaper archives. These bits of information add detail to the post-war years as Heath became the primo electronic kit company. Even if you read the history of Heath in a previous edition, take the time to refresh your knowledge by reading this one. It's just 48 pages, with lots of illustrations, and reads fast.

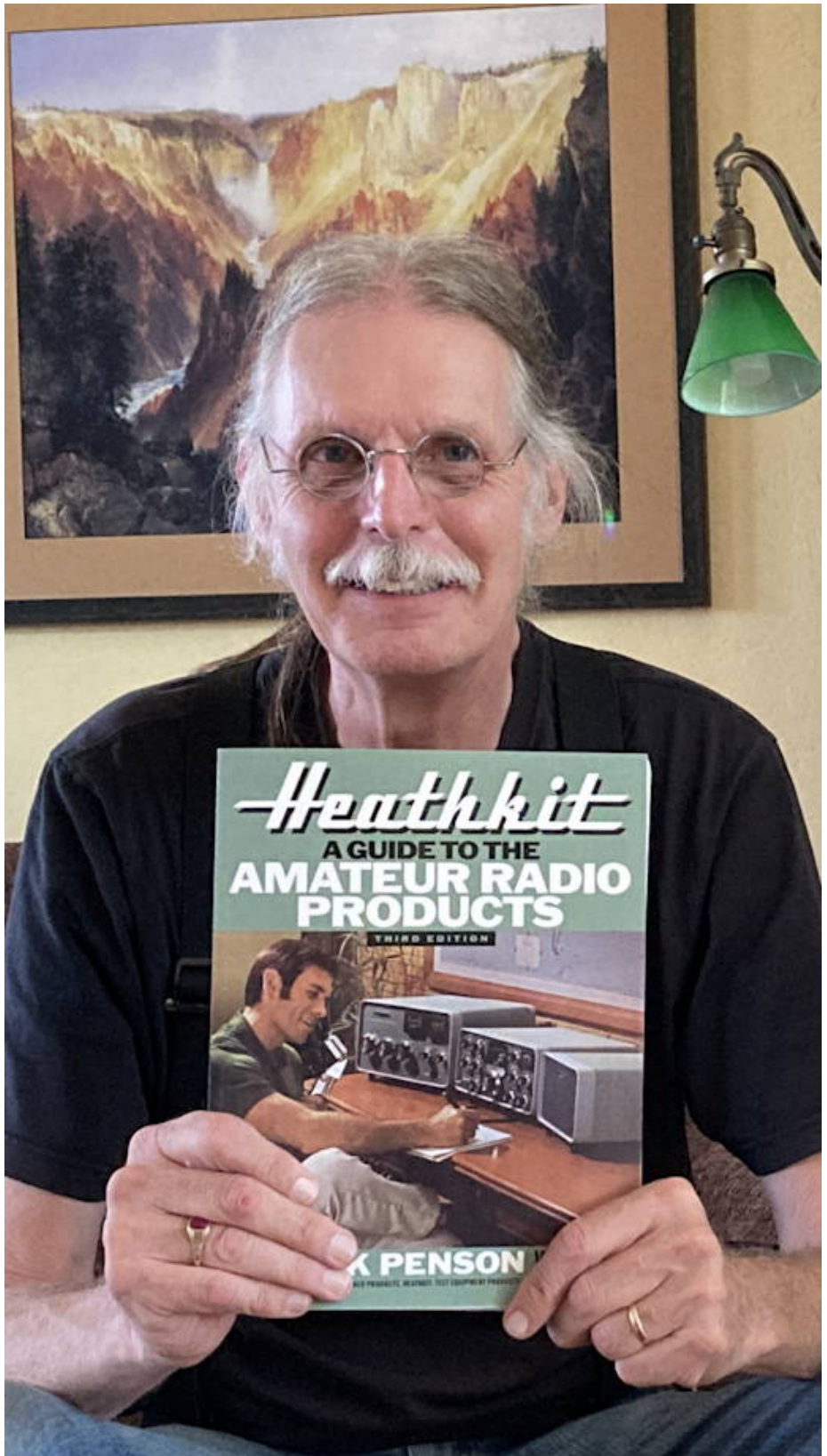


Figure 2: Chuck Penson - WA7ZZE proudly holds a preliminary copy of his new book.

• The Product Section:

Here is the meat of the book. The Heathkit amateur radio products have been broken into 14 categories, each a separate chapter, as listed in **TABLE II**. With a few exceptions only products “designed by Heath” and “available in kit form” are listed. Thus you won’t find the Heath HK-21 “Pocket Packet”, the SB-1400 transceiver or the HW-6502 handheld; they are only available fully assembled and were not designed by Heath. Exceptions exist, two are the inclusion of the SB-1000 HF Amplifier and HK-232 TNC kits. They are products from Ameritron and AEA repackaged by Heath and sold as kits.

Chuck Penson is providing, on his website⁹, 26 sample pages that covers all 14 product chapters of the book. A typical chapter entry starts with the model number, with the model name directly below, followed by the years the product was sold, and the initial selling price. See **Figure 3**. This is followed by text describing the kit. In the case of the SB-400 the fourteen paragraphs of text along with three photos and three detailed drawings take up about three full columns.

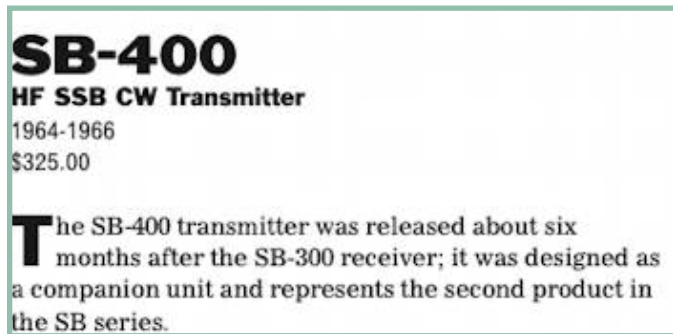


Figure 3: See Text

The text discusses the kit, including a little history, connection details, controls, changes made by Heath (if any), and anything that might be pertinent to that model. On products like the DX-60 that also has an ‘A’ and ‘B’ variant, the text presents their significant

differences. For the person looking for used Heathkits, caveats are often pointed out, such as: *“The SB-400 is supplied with all needed heterodyne oscillator crystals so it can be used with any other make or model of receiver. Be sure that the crystals are installed.”* and *“Note: because of the different size and mounting hole configurations, SB-400 and SB-401 crystal filters are mutually incompatible.”*

Following the text are **References** that list magazine articles that cover the kit such as reviews and modifications. These are from the popular ham magazines: *QST*, *Ham Radio*, *73 Amateur Radio*, *CQ*, *Electric Radio* and others. All these issues are available either online free¹⁰, through the publisher, or, in the case of *QST*, free to ARRL members on the ARRL website.

Specifications follow the **References**. In most cases they are from one of the manuals. For the few that a manual was not available, specifications came from a Heathkit catalog listing. Heath did change specifications over time, so your manual might occasionally show a slightly different spec.

Overall, the book has over 1,000 sharp photos and illustrations.

• The Index Section:

The third section of the book is the index; actually there are three indices to help you find what you’re looking for fast. They are:

- By Model # - DX-40; VF-1.
- By Type - HF Transmitter, DX-40; VFO, VF-1.
- By Chronological Order - 1954-1961, VF-1; 1957-1960, DX-40.

The appendices of the second edition are no longer at the back of the book, Vacuum tubes are no longer in an appendix table but are included in the specifications for each prod-

uct. The same is true of the Product References appendix (and separate *Electric Radio* index) except they now reside in the References section for each product. The Sales Data appendix has been removed from the book, likely because the data is spotty and

incomplete and other than 1972 sales data, little sales information has surfaced.

I have yet to find anything that is in error. However, to keep your third edition up to date, Chuck is planning an errata page on his website.

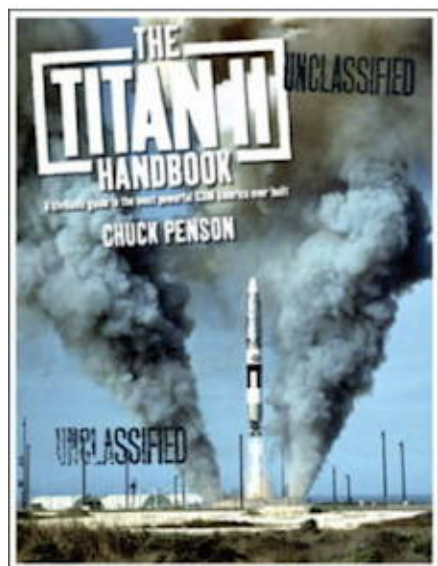
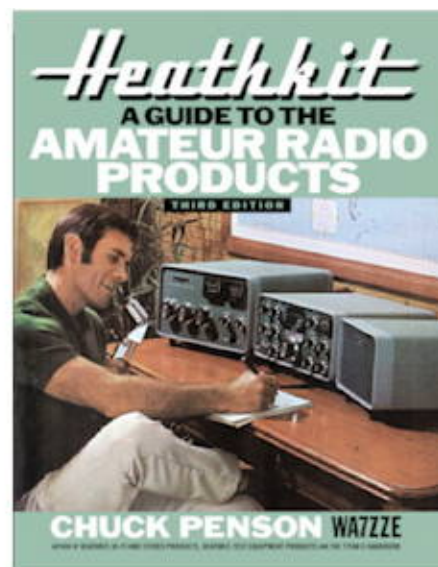
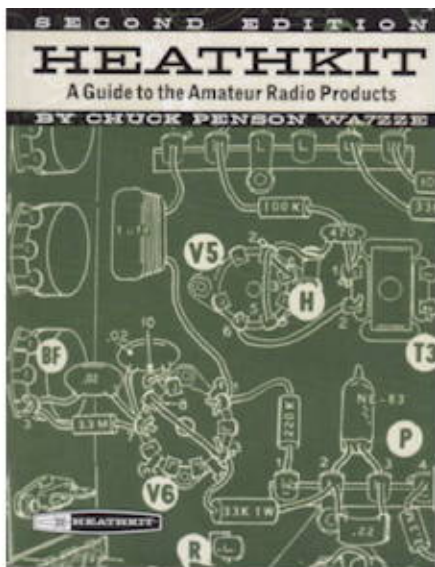


Figure 4: Six Books by Chuck Penson - WA7ZZE

Clockwise from top left:

HEATHKIT A Guide to the Amateur Radio Products - First Edition 1995 (Out of Print); **HEATHKIT A Guide to the Amateur Radio Products** - Second Edition 2003 (Out of Print); **HEATHKIT A Guide to the Amateur Radio Products** - Third Edition (Newly Available); **Heathkit HI-FI and Stereo Products** - First Edition 2018 (In Print); **Heathkit Test Equipment Products** - First Edition 2014 (In Print); **The Titan II Handbook** - Third Edition 2008 (In Print).

Figure 5 (Right): An interesting Rear Cover ➡

The Book Covers:

The front cover layout is similar to the 2018 HiFi and Stereo Products book. Each use a photo from the cover of a Heathkit catalog. This book's cover is from the Christmas 1970 catalog. It shows an SB-220 2KW linear, an SB-102 HF Transceiver, an SB-600 speaker (likely containing an HP-23A power supply), and an HDP-21A microphone. Both the SB-220 and SB-102 were released in 1970.

The rear cover has an interesting story. An old SB-100 was acquired by Chuck: and Gerhard - DF1DA helped with the disassembly; many of these parts are world travelers! Then Chuck painfully laid out the parts on the floor. How he took the photo he won't tell, but one has visions of Penson, suspended on wires a-la *Mission Impossible* movie style. That pile in the upper right are screws, nuts and other hardware. The vast number of parts show how Heathkit could, with good planning and exceptional manuals, have a human, young or old, male or female, of any profession, assemble those parts and end up with a working complex radio transceiver. Their motto "We Won't Let You Fail" held true for many decades - unless you used acid core solder!!!



NOTES:

1. Book review by the author at: [https://www.w6ze.org/Heathkit/MiscArticles/Heathkit Article A04.pdf](https://www.w6ze.org/Heathkit/MiscArticles/Heathkit%20Article%20A04.pdf)
2. The author found a copy of the second edition at Ham Radio Outlet in Anaheim in June of 2014.
3. Actual 2017 prices listed for the second edition included one for \$500 and one for \$1399.
4. <https://titanmissilemuseum.org>
5. <https://youtu.be/uH9FegYLQYM> is a video of Chuck Penson giving a tour at the Titan museum.
6. Book Review by the author at: [https://www.w6ze.org/Heathkit/MiscArticles/Heathkit Article A03.pdf](https://www.w6ze.org/Heathkit/MiscArticles/Heathkit%20Article%20A03.pdf)
7. The Heath Trilogy: <https://wa7zze.com>
8. Book review by the author at: [https://www.w6ze.org/Heathkit/MiscArticles/Heathkit Article A05.pdf](https://www.w6ze.org/Heathkit/MiscArticles/Heathkit%20Article%20A05.pdf)
9. Go to: <https://wa7zze.com/amateur-radio> - Scroll down to "Download a sample" and click on it. The download is about 12 MB.
10. <https://worldradiohistory.com/> A site with many many scanned radio, TV and electronics magazines, catalogs and books.

73, from AF6C



Remember, if you are getting rid of any old Heathkit Manuals or Catalogs, please pass them along to me for my research.

This article is Copyright 2021 R. Eckweiler, AF6C and The OCARC Inc.

Thanks - AF6C



CALIFORNIA REPUBLIC

California QSO Party October 2 & 3, 2021

Orange County Amateur Radio Club

The California QSO Party gives you the opportunity to become the station the rest of the country wants to get into their log.

Visit the CQP website at www.cqp.org for all the information you will need to help put OCARC on top.

IMPORTANT CLUB COMPETITION RULE CHANGE!!!!!!

10,000 POINTS FOR EACH LOG ENTRY

50,000 POINTS FOR AT LEAST ONE S/O YL
LOG ENTRY

50,000 POINTS FOR AT LEAST ONE YOUTH S/O
LOG ENTRY

50,000 POINTS FOR AT LEAST ONE NEW CONTESTER
LOG ENTRY

There are more points available, check the rules at www.cqp.org

OCARC GENERAL MEETING MINUTES 2021-08-20

Due to the ongoing pandemic, the eighth General Meeting of the year was via Zoom on Friday, August 20, 2021. The meeting was called to order by our president Nicholas Haban AF6CF at 7:00 PM PDT. There were twenty (20) members, guests and visitors present, including our speaker.

•Pledge of Allegiance

Nicholas starts a video to lead the Pledge of Allegiance.

•Meeting Presentation

Nicholas AF6CF turns the meeting over to our vice president, Tim Goeppinger N6GP, who introduces Dr. Doug Millar K6JEY.

Dr. Millar is a “teacher of teachers,” with an EDD Degree. He is a pilot, and is involved in astronomy. Dr. Millar has done EME Ham Radio on 10GHz, and has explored 122GHz with a group from Australia. Dr. Millar was featured on *QSO Today*, and presents for us, “Receiver Optimization.”

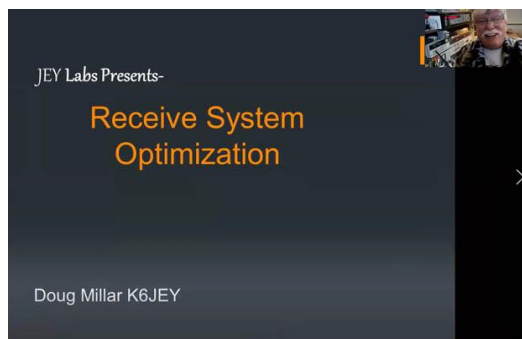


Fig 1 – Intro: “Receive System Optimization”

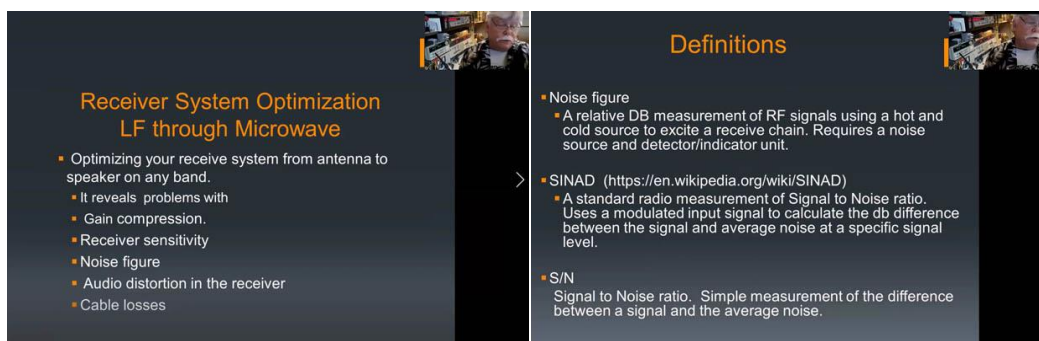
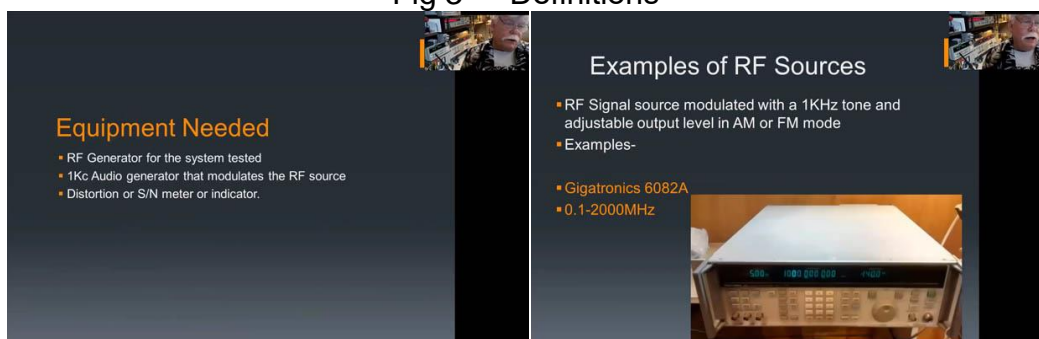
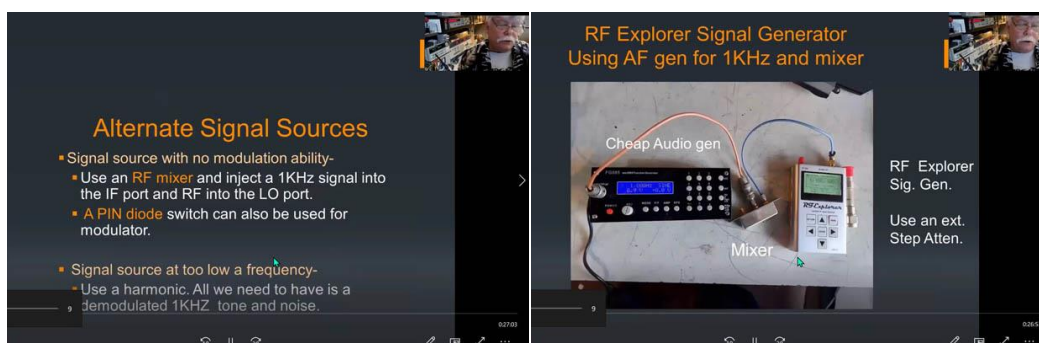


Fig 2 – “Receiver System Optimization LF through Microwave”

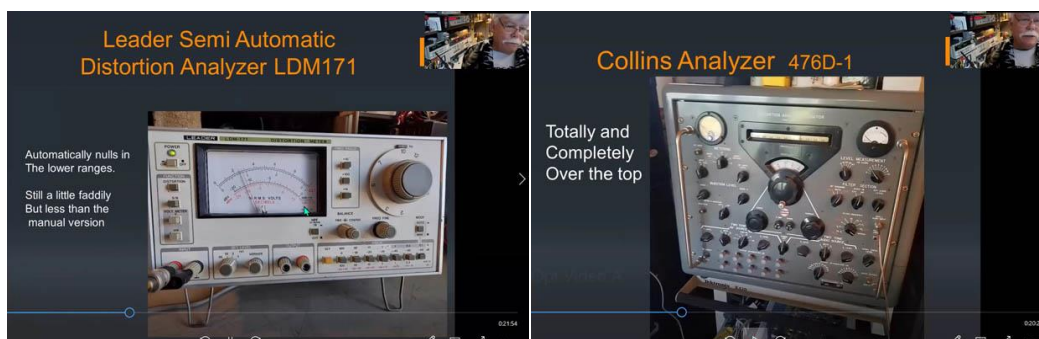
Fig 3 – “Definitions”



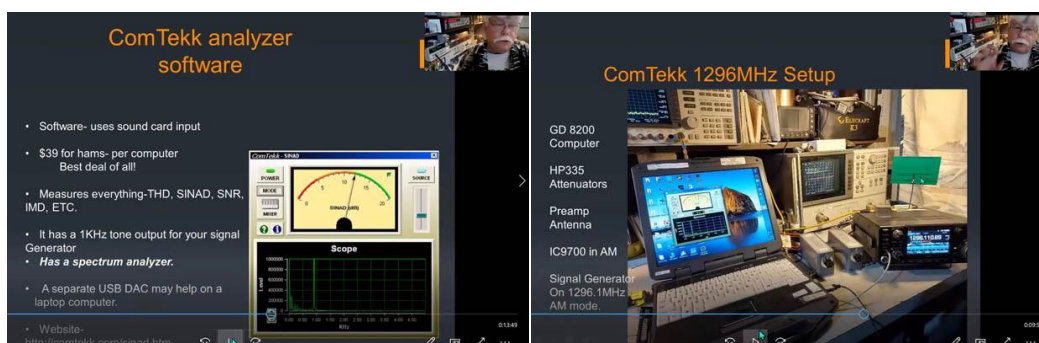
Figs 4 and 5 – “Equipment Needed” and “Examples of RF Sources”



Figs 6 and 7 – “Alternate Signal Sources” and “RF Explorer Signal Generator Using AF Generator for 1kHz and Mixer”



Figs 8 and 9 – Distortion Analyzers



Figs 10 and 11 – “ComTekk Analyzer Software” and “ComTekk 1296MHz Setup”

•Questions and Answers

Nicholas AF6CF asks Doug to elaborate on the Elecraft KX-2. Doug says he checked the radio, and the distortion was low.

Ron W6WG asks if the laptop Doug used has a screen that can be seen in direct daylight. Doug tells us it is a General Dynamics 8200, a military computer with a magnesium frame and an i5 processor, and yes, it has a “daylight” screen. It will run Windows 10, and has all the usual peripherals.

Tim G. N6GP asks about the ComTekk software, and what hardware is used with it. Doug says it has a 1kHz output, so all that is needed is a signal generator. The software does audio analysis.

As a bonus, Doug plays a four-minute video of the ComTekk software noise figure analysis demonstration.



Fig 12 – Receiver Optimization with the ComTekk Software

Tim G. N6GP asks why a preamp is necessary to perform the diagnostic with the ComTekk software. Doug tells us most input to receivers are filtered, so they have a high noise figure. On 2-meters and up, the preamp gain will override the noise figure of the radio. The preamp gain needs to be adjusted so the signal is increased two or three s-units, sometimes a little bit more.

Our vice president, Tim G. N6GP thanks Doug for the fascinating presentation, with a round of applause from the attendees.

Business Meeting

Our president, Nicholas AF6CF, thanks Doug for the presentation as well, and starts the business meeting at 7:57 PM PDT. Eight (8) Board members were present for a quorum. Tom W6ETC public relations, and Steve N1BKB our technical chairman were absent. Eight (8) topics were brought to the Board tonight, and one (1) motion carried, adjournment.

•Director Reports

-President: Nicholas AF6CF asks Jesse Mendez KB6MQY about the status of the SK donation he received and the tower base. Jesse says he has it taken care of.

-Vice President: Tim G. N6GP reports we have a speaker lined-up for September:

•General Meeting Programs:

September: Janet Margelli presents: "The History of Ham Radio Outlet"
for their 50th Anniversary

October: Club Auction

November: Club Elections

December: Christmas Dinner

-Secretary: Corey KE6YHX tells our membership chairman, Bob AF6C, he plans to get our mail at the Tustin Post Office this Saturday.

-Activities: Ron W6WG reports there are some missing baluns from Field Day. (We are notified on September 4, 2021, that they have been found.)

-Technical: Steve N1BKB announces through Nicholas AF6CF, Paul Whitely WA6GFT, needs volunteers to help set-up a G5RV antenna over his roof.

-Membership: Bob AF6C reports we have 120 members, pending one dues payment in the mail.

-Director-at-Large 1: Dan KI6X reports our Red Cross contact will inquire about accommodations for the October Auction.

-Net Control Report: Net Control, Corey KE6YHX, reports the past six (6) Nets average 4-2/3 attendees.

•Opportunity Drawing

Nicholas AF6CF introduces the opportunity drawing, and the prize of a GMRS/FRS HT. Ron W6WG spins the wheel and the prizewinner is Vijay NA6VJ, Irvine.

•Good of the Club

No items were presented for The Good of the Club.

•Adjournment

A motion to adjourn was made, seconded and carried at 8:25 PM PDT.

--Respectfully submitted by Corey KE6YHX OCARC Secretary



Full image of Nicholas, AF6CF, in front of NASA's
"Ikhana Predator B Unmanned Science and Research Aircraft System"
at Edwards Air Force Base a few years back

See link: [NASA Armstrong Fact Sheet: Ikhana Predator B | NASA](#) for more information
This is a Predator Drone filled with scientific equipment for NASA research

OCARC BOARD MEETING MINUTES 2021-09-04

Due to the ongoing pandemic, the ninth Board Meeting of the year was via Zoom on Saturday, September 4, 2021. The meeting was called to order by our president, Nicholas AF6CF at 8:15 AM PDT. Eight (8) directors were present for a quorum. Our public relations officer, Tom W6ETC, was absent, and our treasurer, Ken W6HHC, joined the meeting later. There were twenty-three (23) topics brought to the Board this morning, and two (2) motions carried, including adjournment.



Fig 1 – Eight (8) Board Directors were present.

•Director Reports

-Secretary: Corey KE6YHX reports he will check our post office box later today. (There was only one piece of mail, a donation request.) On Saturday, August 21, 2021, there were four (4) pieces of mail, including two (2) donation requests (junk mail), and two (2) Wells Fargo bank statements.

-Treasurer: Ken W6HHC presents his cash flow report for the end of August. Inflows total \$5,035, and outflows total \$1,955. They balance to a net increase of \$3,080. Our inflows include the sale of two SK donations. Ken is waiting for Field Day expense reports. [Editor's note: see details on Pg 18]

-Activities: Ron W6WG reports the California QSO Party is coming on the first weekend in October.

-Technical: Steve N1BKB reports the revenue from the SK donations top \$2,000. The Icom IC-211 has found a home, and the Kenwood TS-430 remains to be sold. The web site, QTH.com is of great benefit.

Steve has been Elmering Paul Whitely WA6GFT with his new antenna and rig.

-Membership: Bob AF6C reports we now have 120 members, including one (1) new member. Bob is waiting for a list of members paid for 2022.

Old Business

•Newsletter Editors:

September: Dan KI6X
October: Tim M. N6TMT
November: Corey KE6YHX
December: --open to volunteers--

•General Meeting Programs:

September: Janet Margelli presents: "The History of Ham Radio Outlet"
Plus: The California QSO Party
October: Club Auction --Rescheduled for February--
November: Ken W6HHC presents: "End-Fed Half-Wave Antennas"
Plus: Club Elections
December: Christmas Dinner

•Hybrid Meetings:

Dan KI6X reports the American Red Cross cannot host any meetings at their facilities until at least the end of the year.

•Net Activity Report:

Since the August General Meeting, the six (6) Nets together average 4-1/3 attendees. The three (3) types of nets average:

75M Nets: 1 attendee
10M Nets: 6 attendees
2M Nets: 6 attendees

•Club Web Site Status:

A photo of Steve N1BKB and Nicholas AF6CF at the TRW Swap Meet with our SK equipment is available for the front page.

•SK Donations from Tegel, Boykin WB6KJJ, and others:

Steve N1BKB tells us QTH.com is an excellent site for selling SK donations.

•New Club Generator:

Nicholas AF6CF will have a report on the homebrew parts for the new generator for the Board next time.

•Auctions – Old Generator and October:

The *RF Newsletter* and QTH.com are excellent places to advertise the old club generator. Bob AF6C plans to prepare the generator for sale.

The Club has equipment from the SK donations for the Club Auction.

•Christmas Party:

Ron W6WG has us reserved at Mimi's for December 10, at 6:00 PM PST. We have a minimum combined purchase of \$350. The Board discusses types of prize drawings, including numbered-squares, an opportunity drawing, and a multiple opportunity drawing. Two Board members can provide prizes.

New Business

•New Activities for the Year:

Ron W6WG tells us the California QSO Party points are oriented towards participation, but we will take-part anyway.

•October Club Auction:

Tim G. N6GP moves to reschedule the October Club Auction for February, and Steve N1BKB seconds. The Board votes eight to none in favor, and the motion is carried at 9:06 AM PDT.

•TRW Swap Meet Report and Plans:

There are some scheduling conflicts, but Nicholas AF6CF will try to recruit some people to help with the SK donations for the September TRW Swap Meet.

•PayPal Account Ownership:

Tim Goeppinger N6GP agrees to be the trustee of the PayPal account, and we may proceed with the transfer.

•Election Committee:

Nicholas AF6CF, Tim G. N6GP, and Ron W6WG are appointed election committee chairmen.

•Good of the Club

Corey KE6YHX, Ron W6WG, and Nicholas AF6CF may go ahead and contact our Club Auction site prospects for February.

Tim G. N6GP reports Chip K7JA has found his missing baluns.

•Adjournment

A motion to adjourn is made, seconded, and carried at 9:30 AM PDT.

--Respectfully submitted by Corey KE6YHX, OCARC Secretary



W6ZE NETS

10M: 28.375 ± MHz SSB

Wed - 7:30 PM - 8:30 PM

Net Control: Corey, KE6YHX

2M: 146.55 MHz Simplex FM

Wed - 8:30 PM - 9:30 PM

Net Control: Corey, KE6YHX

75M: 3.883 MHz LSB

Tuesday – 8:00 PM – 9PM

Net Control: Corey, KE6YHX

RadioActivity

September 2021

Upcoming Activities:

September

- **ARRL September VHF Contest:** 1800 UTC Saturday Sept. 11 to 0300 UTC Monday September 13.
- **North American Sprint, CW:** 0000 UTC to 0400 UTC Sunday September 12.
- **CQ Worldwide DX Contest, RTTY:** 0000 UTC Saturday 25 to 2400 UTC Sunday September 26.

October

- **Oceania DX Contest, Phone:** 0600 UTC Saturday Oct. 2 to 0600 UTC Sunday Oct 3.
- **Oceania DX Contest, CW:** 0600 UTC Oct. 9 to 0600 UTC Sunday Oct 10.
- **Scandinavian Activity Contest, Phone:** 1200 UTC Oct. 9 to 1200 UTC Sunday Oct 10.

* Indicates club entries are accepted

** Indicates team entries are accepted

Note: When submitting logs for ARRL Contests indicate your club affiliation as "Orange County ARC"

State QSO Parties:

- **Texas QSO Party:** 1400 UTC Saturday Sept. 18 to 0200 UTC Saturday Sept. 19 and 1400 UTC to 2000 Sunday Sept. 13
- **Iowa QSO Party:** 1400 UTC Saturday Sept. 18 through 0200 UTC Sunday Sept 19.
- **New Hampshire QSO Party:** 1600 UTC Saturday Sept. 18 to 0400 UTC Sunday Sept. 20 and 1600 UTC to 2200 Sunday Sept. 18.
- **New Jersey QSO Party:** 1600 UTC Saturday Sept. 18 to 0359 UTC Sunday Sept. 19.
- **Maine QSO Party:** 1200 UTC Saturday Sept. 25 through 1200 UTC Sunday Sept. 26.

• California QSO Party

1600 UTC Oct. 2 through 2200 UTC Sunday Oct. 3.

Note: When submitting logs for CQP indicate your club affiliation as "Orange County ARC"

- **Nevada QSO Party:** 0300 UTC Saturday October 9 through 2100 UTC Sunday Oct. 10.
- **Arizona QSO Party:** 1500 UTC Saturday Oct. 9 to 0500 UTC Sunday Oct. 10.
- **Pennsylvania QSO Party:** 1600 UTC Oct. 9 to 0500 UTC Sunday Oct. 10 and 1300 UTC to 2200 Sunday Oct. 10.
- **South Dakota QSO Party:** 1800 UTC Saturday Oct. 9 through 1800 UTC Sunday Oct 10.

Repeating Activities:

- **Phone Fry** Every Tuesday night at 0230Z to 0300Z
- **SKCC** Weekend Sprintathon (Straight Key CW) on the first weekend of the month after the 6TH of the month. 1200Z Sat. to 2359Z Sunday.
- **SKCC** Sprint (Straight Key CW) 0000Z to 0200Z on the 4th Tuesday night (USA) of the month.
- **CWops Mini-CWT** Every Wednesday 1300 UTC to 1400 UTC; 1900 UTC to 2000 UTC; and Thursday 0300 UTC to 0400 UTC
- **K1USN Slow Speed Test:** (CW, 20WPM Max.) Every Friday 2000 UTC to 2100 UTC; Every Sunday night at 0000 UTC to 0100 UTC Monday

OCARC Club Nets:

- **75 Meter Net:** Every Tuesday night at 8:00 pm to 8:30 pm Local Time. SSB 3.883 MHz
- **10 Meter Net:** Every Wednesday night at 7:30 pm to 8:30 pm Local Time. SSB 28.375 MHz
- **2 Meter Net:** Every Wednesday night at 8:30 pm to 9:30 pm Local Time. FM Simplex 146.55 MHz

Other Nets:

- **Net-AT-9:** Wellness & Support Monday thru Friday 9:00 am and 9:00 pm Local Time 147.090 MHz (+600 MHz) No PL

Send an email to Ron W6WG, w6wg@w6ze.org to have your favorite activity or your recent RadioActivity listed in next month's column.

73, Ron W6WG

OCARC Cash Flow - Year to Date

1/1/2021 through 8/31/2021

| Category | 1/1/2021- 8/31/2021 |
|---------------------------------------|------------------------|
| INFLOWS | |
| 2021 SK Special Disposal Effort (Net) | 616.00 |
| Badge Income | 1.64 |
| Donation -new FD Generator | 500.00 |
| Dues, Family (PayPal) | 129.50 |
| Dues, Membership | 487.50 |
| Dues, Membership (PayPal) | 1,651.27 |
| Dues, Membership (Paypal) 2022 | 57.66 |
| Sale Of Equipment | 1,592.04 |
| TOTAL INFLOWS | 5,035.61 |
| OUTFLOWS | |
| Field Day Rental - Tent | 200.00 |
| Generator - new Firman | 915.87 |
| OCARC Historian | 97.91 |
| PayPal Fee | 1.75 |
| PO Box Rental | 118.00 |
| Storage of Equipment - Ann Millard | 250.00 |
| Web Site Hosting | 152.00 |
| Web Site SSL Fee | 69.99 |
| ZOOM subscription | 149.90 |
| TOTAL OUTFLOWS | 1,955.42 |
| OVERALL TOTAL | 3,080.19 |

ASSETS

| | |
|----------------------|------------|
| Wells Fargo Checking | \$7,164.95 |
| PayPal account | \$452.04 |

MiniTiouner-Express

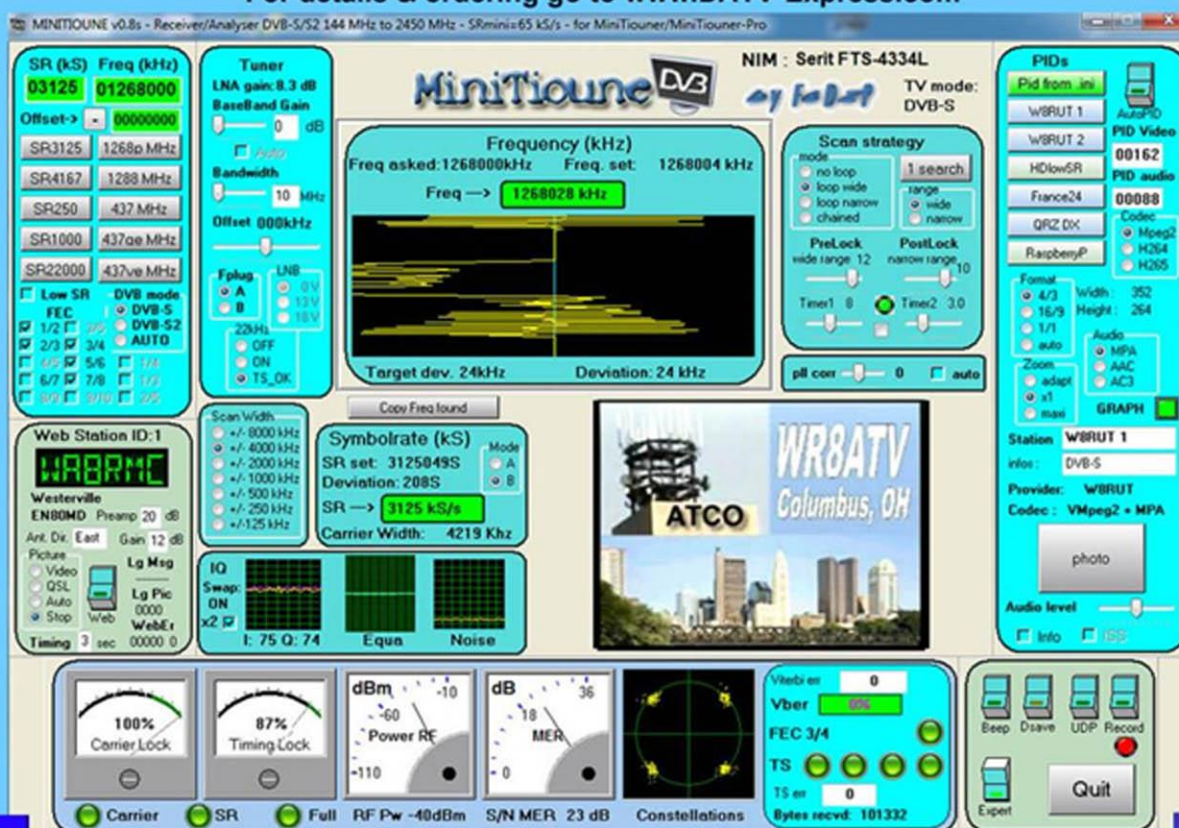
Digital Amateur Television DVB-S/S2 Receiver / Analyzer



Available at DATV-Express.com

- Operates with Windows PC using free MiniTioune software from Jean-Pierre F6DZP
- Smaller than a stack of 2 decks of cards (picture above is full size)
- Two independent simultaneous RF inputs with internal preamps
- High sensitivity -100dBm @1288MHz – at 1/2 FEC
- Fully assembled/tested in aluminum enclosure
- Covers 144-2420MHz (ideal for Space Station DATV reception)
- Symbol rates from 75 KSymb/s to >20 MSymbols/sec
- Uses external 8-24VDC supply or +5V from USB-3 port (with small modification)
- Real time signal modulation constellation & dBm signal strength display
- Price: US \$75 + shipping – order with PayPal

For details & ordering go to www.DATV-Express.com



(MiniTioune display above is the ATCO 1268MHz DVB-S repeater signal at WA8RMC QTH 15 miles away).