



# *PVRC Newsletter*

## *March 2015*

### President's Letter – Ethan K8GU

In lieu of what K3TN calls a “vanilla President’s column,” I’ve written a little bit about my trip to KH8 American Samoa.

I went to Samoa to deploy an instrument that will (hopefully) make unattended observations for several years. But, this is about the ARRL DX contest, not the project.

Originally, my trip out here was to be 16-27 February (flights via Honolulu are on Mondays and Fridays; and it was centered on ARRL DX). But, a bigger fast-moving program at work swept in and ate up a lot of my preparation time as well as needing my attention in general. Plus, two weeks is a long time to leave my wife at home with two pre-school children in the dead of winter.

So, I shortened the trip to 20-27 February which put me on KH8 on Friday night some 8 hours into ARRL DX. I had contemplated doing a

somewhat serious SOSB15 entry and modeled several different antenna options before settling on taking my usual “GU Special” verticals and a small amount of wire, mostly as a concession to available time. My friend Matt, KB9UWU (WR9D), suggested that since I wasn’t able to devote full time to the contest, maybe I should just do SOAB for fun, so I did.

It turned out that baggage would be a limiting factor anyway: I had about 230 lbs of checked bags in four pieces (yes, two overweight) and another almost 100 lbs of carry-on (don’t tell the airlines--- this is a DXpeditioner trick I read about in some ARRL publication years ago; it obviously doesn’t work on a lot of island hoppers, though). Mercifully, I randomly “qualified” for pre-check in the TSA screening lines at BWI and HNL.

I had hoped to bring my Elecraft K3 so I could operate some SSB (why I thought this would be a good idea, I don’t know). However, the K3 didn’t fit into a credibly “carry-on” package with all the other 90

lbs of carry-on gear, so I ended up taking my CW-only K2/100.



I had lunch with N2NL, KH6YY, KH7U, and KH6U, at KH6YY's (aka KH7XX aka many others, very famous station) place on the North Shore of Oahu on Friday before heading back to HNL for my afternoon flight to Pago Pago. I frequently manage to meet other contesters while traveling and it's always a good time.

The NOAA observatory is on Cape Matatula, which is the extreme northeast part of the main island of Tutuila. The easternmost hotels on the island are in Pago Pago proper, which is about 30 minutes from the airport in Tafuna. I stayed in this area, but it's still a good hour to the observatory from there. The roads are narrow and full of potholes, stray dogs, random pedestrians, coconuts, chickens, and other hazards...at all hours of the day and night: typical tropical island traffic patterns and driver behavior. If you've been to PJ2, KP4, etc, it's the same deal.

The Observatory is at an elevation of about 250 ft ASL, which seems much more spectacular when you're up there. My research equipment is in a concrete block shack about 7' x 15' near the ocean at about 80 ft ASL. I set up my ham gear just inside the door of that shelter, which I shared with a window-type air conditioner and several pumps that collect aerosol samples. Needless to say, it's loud. The Etymotic Research MC-5 earbuds again proved their worth in blocking out the din. In the photo below, the two antennas on the right end of the shack were installed by me also. The "GU special" is on the left. Yeah, there's no snow here.



The only creature comfort of the shack was the air conditioning, which had mercifully been replaced on Friday, the day I arrived. I set the radio, key, and computer up on a crooked table just inside the door and sat on a Pelican case. I did discover that I could lean against the door frame with the laptop in my lap, but it was hard to reach the key then, resulting in some liddish moments.



I could tell I wasn't very loud most of the time, but I'm grateful to everyone for their patience and general discipline in the pileups when they occurred. 40 meters was a real surprise! The GU Special is pretty flimsy in its 40-meter configuration and I was even short a segment so the SWR was hovering just over 2.0:1 causing the K2/100 to fold back 50 watts or so. But, people kept calling! Thanks!

This QTH is on a cliff above the ocean with a 270-degree panoramic view of nothing but saltwater from the west all the way around to the southeast, to include all of NA. Modeling during the run up to the contest suggested that a vertical antenna would have lots of vertical lobes in this configuration but I elected to use it anyway since I already had it. Around 2230 on Sunday, I wondered if I could do better so I made up a 10-meter dipole out of hookup wire and suspended by the fully-extended GU Special. That seemed to be a good idea since I spent the rest of the contest on 10 meters.

Call: [KH8/K8GU](#)  
 Operator(s): [K8GU](#)  
 Station: KH8/K8GU  
 Class: **SOAB LP**  
 QTH: Tula  
 Operating Time (hrs): 12  
 Location: Other Oceania  
 Summary: [Compare Scores](#)

| Band          | QSOs        | Mults                      |
|---------------|-------------|----------------------------|
| 160:          | 0           | 0                          |
| 80:           | 0           | 0                          |
| 40:           | 80          | 33                         |
| 20:           | 230         | 43                         |
| 15:           | 346         | 52                         |
| 10:           | 433         | 49                         |
| <b>Total:</b> | <b>1085</b> | <b>177</b>                 |
|               |             | <b>Total Score 573,480</b> |

I worked a lot of PVRC during (and after) the contest. One of the things about doing this contest from Oceania is that it's far from the epicenter, which I would argue is W1/W2/W3. Running and rates are actually better into EU from W3 than they are from here! Granted, my station in W3 is slightly better. This, of course, explains why KH8 doesn't often show up for ARRL DX.

A final observation: Skimmers - wow. K3LR and W3LPL found me almost instantly upon firing up on a new band. NR4M and K3TN (at K4VV) were also very fast.

I'm not sure I would choose to operate ARRL DX from KH8 again, but it was fun.

73, Ethan, KH8/K8GU.

|   |                    |  |  |
|---|--------------------|--|--|
| <b>PVRC Officers:</b>   |                    | <b>Trustees:</b>                           |  |
| President:  | K8GU Ethan Miller  | K3MM, N3OC, WX3B, W4ZYT, N4NW, K2AV, KE3X, |  |
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| Vice President:   | K3AJ Tom Valenti   | <b>PVRC Charter Members (all SK):</b>      |  |
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| PVRC Website: <a href="http://www.pvrc.org">http://www.pvrc.org</a> |                    |  |  |

## The First All Remote Multi-Multi? – John K3TN

Mike W0YR has done a phenomenal job keeping K4VV up and running and in building out and encouraging remote operation of the station. Mike did a write-up for the September 2013 PVRC Newsletter ([here](#)) and will have an article in a future NCJ issue describing the latest.

In the recent ARRL DX CW, Mike pulled together a number of operators (W0YR and N1RM in VA, K3TN in MD, W4TMO and K4XD in NC and W3UL from **both** MD and FL with a ride on the Auto Train separating two operating stints) and we used my callsign (K3TN) to enter as a multi-multi – with nobody ever actually physically present. Which was a good thing – over a foot of snow up west of Leesburg meant the station was totally inaccessible.



Bill W3UL operates K4VV remotely from his snow-free FL condo

We had a blast in a very relaxed, informal operation – over 4200 QSOs, 556 multipliers, about 7M points claimed. There were 5 hours where we had no signals on the air and probably over the half the time there was at least one position silent. But, we had some phenomenal rates – I had a personal best 247 hour, Mike had a 10 minute segment where he made 50 QSOs, and later worked a 5w BA2 on 15!

Two positions are FT-1000MPs that are remotely operated using all free software. A third position is my K3 with a RemoteRig interface operated remotely in K3 Twin mode by myself and N1RM using RemoteRig interfaces in our shacks.

If you are interesting in joining in on the fun in future contests, contact Mike W0YR.

## Putting Up My Aluma T-75XHD - Larry K1ZW (EX WA2SRY)

I have an Aluma T-75XHD tower that I installed the fall of 2001. I had just moved from Rochester New York and retired. I have been licensed since 1972 and thought it was time to put up a tower and a large antenna. I wanted a tower in the 75 foot range freestanding and be able to work on the antenna without climbing. I considered an US Tower and after looking into the freight and installation costs it was very high-priced (over \$2000 freight alone).

I talked to the ham that sold the amateur tower line for Aluma he told me about a mounting for their towers called a ground post, no concrete necessary. He told me that a fellow near Charlotte had one installed with the 75 foot tower, so off to Charlotte my wife and I went. I was very impressed with his installation so I placed my order. All it takes to install the supporting post is a 12 inch diameter hole 6 feet deep, and it just so happened that the fellow grading the backyard was doing it with a Bobcat, so we rented a 12 inch auger and extension and drilled the hole.



I forgot to mention that the freight cost from Florida was very reasonable (free). The fellow with his back to you is the ham that sells the tower; his other job is delivering these tower trailers to customers that use these trailers for cell site evaluation all over the country. So if one is patient he will drop your tower off on one of his trips in your area.



This is the mounting post; the lower section is what goes in the ground. The post is 6 inches in diameter and 14 feet long. The fins are 3 inches wide making for the 12 inch diameter hole.



It took about a week to back fill the hole as I did it and about 1 foot increments watering it and tamping it down (that's the stick on the right) and letting it dry overnight. I had conversations with the factory about using concrete and they said they didn't recommend it because of stresses on the pipe at ground level. There is some give to the soil so the lateral load is distributed over the 6 feet in the ground.



That's not gasoline in the red container it's water as we didn't have any on-site yet, but that's another story. It took three of us to place the post in the hole I think it's heavier than the tower.



The tower weighs approximately 290 pounds, so it took three of us to move the tower over and lean it against the post. I chained it to the post so it would not fall over, all of my help left so I was left alone to try and lift the tower vertically about 6 inches to attach it to the hinge.



I know I won't get any style points but it worked.



This is a close-up of the pipe I used to hold the tower from moving sideways. You can see the hinge just to the left of the pipe elbow and the block further to the left on the tower. These two points have to match up so I used a come-along attached to the 4 x 4 frame and tower to lift it the few inches I needed.

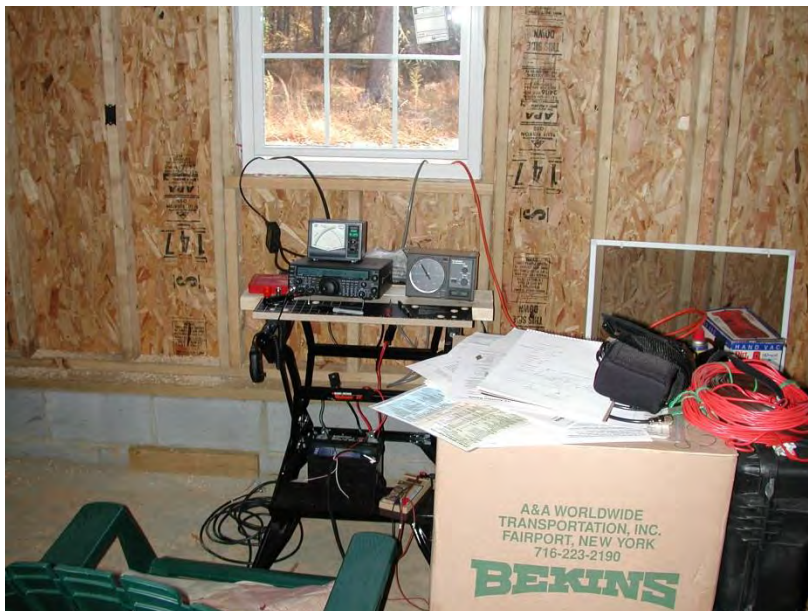




It worked - this is the first tilt over.



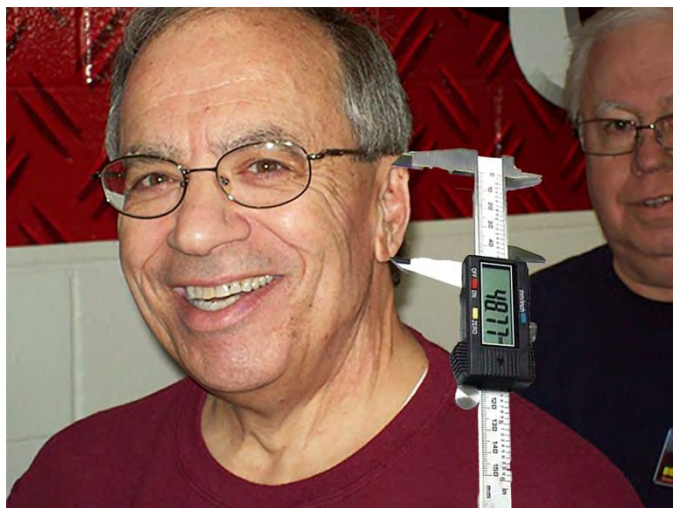
It certainly was a pretty sight for me to see it all away up with antennas. The bottom antenna is a Forced 12 C 31 XR, Cush craft 13 element 2 m, and topping it off a vertical 6 2 440 vertical.



This was my first station in North Carolina. We had no power except for my generator and the battery for the rig. Yaesu FT-847.

### QLE – How Large Are Your Ears?/My Ears Are Large

During a recent thread on the PVRC reflector about headsets, detail-oriented Bill N3RR explained that he measured his ears with a set of calipers as part of data gathering for his evaluation of competing products – leading to Bill buying the Shure BM440M carried by Joel at RF Connections.



At the recent Richmond VA FrostFest, Hank K3YDX snapped this photo, verifying Bill does indeed have very large ears, coming in at 4877 cm!! (with a bit of enhancement by John N3AM...)

## The “We Don’t Need No Steenken’ Wallpaper” Cabrillo Tag

The biggest cost for most contest organizers is sending out certificates to category winners. Some contests have moved to just sending out .pdf files for you to print yourself but another idea is to only send out certificates to those who actually want them – sort of like the OQRS system for DXpedition QSLs, minus the PayPal payment part.

To that end, CQ and others contests now support the CERTIFICATE tag option in Cabrillo. If you do **not** want to receive a paper certificate, simply add this line to the header of your Cabrillo file:

```
CERTIFICATE: NO
```

You can do that manually or soon most contesting software programs will have the option in the contest setup files. If you simply omit this tag, you will still get a certificate – if you actually win, of course...

## Africa All Mode Contest – from Rudi ZS6DX

### Africa All Mode International DX Contest

#### 1. Aim

The objective of this all mode contest is to stimulate contesting from Africa. All participating stations worldwide may work any country during the contest period, but QSOs with radio amateurs from Africa is encouraged as reflected in the higher points being awarded in the scoring mechanism. African DXCC entities are defined as those valid per the ARRL DXCC AF listing published at the time of the contest.

#### 2. Date

From 12:00 UTC on Saturday 14 March to 12:00 UTC on Sunday 15 March 2015). Both single and multi-operator stations may operate for the entire 24-hour period. There are no mandated breaks in operating time required.

#### 3. Bands

160, 80, 40, 20, 15 and 10 metres, in accordance with your country and specific licensing requirements governing the portion(s) of these bands that you may use. No contest QSOs are allowed on 12, 17, 30 or 60 metres.

#### 4. Modes

CW, RTTY and SSB. Contestants may elect to enter a single mode category or take part as a mixed-mode entrant. Mixed-mode entrants may work the same station once on each mode per band (see “Entry Categories” for more details).

More information and the full rules can be found [here](#).

Hope to work you in the contest!  
73, Rudi de ZS6DX/V51VE

## If You Are Looking For A Politically Correct Contest-Radio Meeting

### EURAO Party - Winter 2015: silence please, QRP on air

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The **European Radio Amateurs' Organization** announces a new party on the air, this time with the motto: "*silence please, QRP on air*". Remember this is not a contest; it is just a radio meeting with a few simple 'rules', better to call them recommendations.

**Purpose:** to promote QRP operation, encourage to use low power and feel its lifestyle. Anyone can try it, just go down power knob and sharpen the ear, weak signals are there. Have fun and meet other hams all over the world. Of course also SWLing is welcome.

**Date & time:** February 28th and March 1st, 2015, Saturday and Sunday, 00:00-24:00 UTC.

**Bands & modes:** these are the recommended modes/frequencies (+/-) for QRP: CW: 1.836, 1.843, 3.560, 7.030, 10.106, 10.116, 14.060, 18.086, 18.096, 18.106, 21.060, 24.906 and 28.060; SSB: 3.690, 7.090, 14.285, 18.130, 21.285, 24.950 and 28.365 MHz.

**Call:** "CQ EURAO Party".

**Exchange:** because this is a QSO event, not a contest, you can talk about whatever you want, in any language, and for as long as you like. Here are some topic suggestions to get the conversation going: name, city, locator, weather, antennas, rigs, etc.

Also talk about QSL interchange. Tell the truth. Say "no, thanks" if you are not interested in QSL cards. But if you would like to have a memory of your contact, feel free to use our **EuroBureauQSL** (see below).

**Logs:** for statistic purposes only, we ask participants to submit their logs in ADIF format to [party@eurao.org](mailto:party@eurao.org), where the filename should be your callsign (e.g. EA3RKF.ADI).

There will be no results or league tables, only statistical information about number of QSOs, countries, callsigns, OMs/YLs/Clubs, etc.

**Certificate of Participation:** for those sending the log and with a minimum of 10% QSOs confirmed.

**EuroBureauQSL:** you can use it to interchange QSLs even if you are not member. In this case, just send the QSL to the [entry point](#) in the country of contacted station.

## Membership News

PVRC added several new members since the last newsletter. Please welcome:

- Charles K4UQ from the Southwest Virginia Chapter
- Bob W4OGH, Pete N4UP, Gabrielle N2GTS, Mike AE4ML, Owen KK4URZ, Dave N4DSF and John N4QWF in the Rappahannock Valley Chapter.

Chapter leaders please remember to complete the [Meeting Attendance Report](#).

## Upcoming Contests and Log Due Dates

### Contests This Month

Mar 7 - ARRL DX SSB  
Mar 14 – Africa All Mode  
Mar 15 - NA Sprint RTTY  
Mar 21 – BARTG RTTY  
Mar 21 – Russian DX  
Mar 28 – WPX SSB

### Logs Due This Month

Mar 22 – NA Sprint RTTY  
Mar 25 – ARRL DX CW

See WA7BNM's [Contest Calendar](#) for more detail and the latest information.

## From the PVRC Treasurer – Bill N3RR

PVRC has chosen not to implement an annual Dues requirement. We depend on the generosity of all of our club members to finance our annual budget. In addition, active PVRC members are expected to participate and submit logs for at least two PVRC Club Competition contests per year.

When contemplating your donation to PVRC, each member should consider the benefit you are receiving from PVRC and its many opportunities for your personal growth in our wonderful hobby, then donate accordingly.

Direct donations to PVRC via Credit Card or PayPal may be made by clicking this "Donate" button and clicking the next Donate button that appears on your screen:



## **Eyeball QSO Directions**

The latest info on local club meetings and get together will always be sent out on the [PVRC reflector](#) and posted on the PVRC [web site](#).

**NW Region:** Meetings are generally held on the third Tuesday of each month at the Golden Corral Frederick, MD  
5621 Spectrum Dr.  
Frederick, MD 21703  
PVRC Meets in the BANQUET ROOM  
(301) 662-5922

From Interstate 270 south of Frederick, MD  
take MD Route 85, "Buckeystown Road" NORTH.  
First right on Spectrum Drive.  
Restaurant is in a couple of blocks. Most arrive about 6 PM for dinner and informal discussions. The meeting begins at 7:00 PM.

Contact: Jim [WX3B](#)

**Central Region:** Meets monthly the second Monday of each month, except June, July & August). The location alternates between the below MD and VA locations. Pre-meeting dinners start at 6:00 pm and meetings start at 7:30 pm.

VA LOCATION: Anita's, 521 E. Maple Ave, Vienna, VA. Tel: 703-255-1001. Meets at this location during the months of February, April and October.

Contact: Rich [NN3W](#)

MD LOCATION: Max's Café. 2319 University Blvd W, Wheaton MD 20902. Tel: 301-949-6297 People usually begin arriving at the restaurant around 6:30. Meets at this location during the months of January, March, May, September and November. Contact: Art [K3KU](#)

**The Laurel, MD Region: Bill N3XL** The PVRC get-together is held at the first [LARC](#) meeting each quarter at the clubhouse.

**The Annapolis Crew: Dan K2YWE** Meetings are held on the 4th Wednesday of each month at Broadneck Grill in Annapolis. We gather at about 5:30 PM and order dinner about 6. We break up usually before 8 PM. E-Mail [K2YWE](#) to be put on the e-mail reminder list.

**PVRC-NC:** The PVRC NC-East chapter meetings are held at [Manchester's Bar and Grill](#) on the 9100 block of Leesville Rd. in North Raleigh, with "QRM" beginning at 6:00pm and the dinner meeting following shortly thereafter. The meeting is held monthly on the 1st Thursday of most months, cancellations or changes usually announced on the [PVRC-NC website](#). [The PVRC NC-West Chapter](#) holds its meetings on the 4th Monday of each month at [the Mellow Mushroom](#), 314 W. 4th St., Winston-Salem, NC. Ragchew at 7:00pm, dinner meeting starts at 7:30pm. All contesters and interested guests are invited!

**Over the Hill Bunch:** The group meets for lunch at noon alternately in Maryland at the College Park Holiday Hotel Route 1 and the Beltway or in Virginia at the Parkview Marriot near route 50 and the Beltway. Meetings generally are held on the last Wednesday of the month and are subject to change. Meetings are announced by E-Mail. All PVRC members, non-members interested in membership and guests are welcome. For information contact Roger Stephens, K5VRX, 703-658-3991 for Virginia meetings; or Cliff Bedore [W3CB](#) or get on 147.00 for Maryland meetings.

**Downtown Lunch Group:** Meets on the 3rd Wednesday or Thursday of the month in the downtown area of Washington, DC. Locations occasionally change, but are always Metro accessible. Details are sent out on the PVRC reflector. Feel free to contact Eric W3DQ or Brian WV4V for details and directions.

**Southwest VA Chapter:** The Southwest VA group meets each Wednesday at about 8:30 AM at Hardees at 20265 Timberlake Road in Lynchburg, VA. This is an informal gathering, but normally has about 10-12 attendees. Contact Mark Sihlanick N2QT, Tel: 434-525-2921

**Southern Maryland Chapter:** We meet on the last Wednesday of each month at Nicolletti's Pizza located at: 22741 Three Notch Road, California, MD 20619 Phone: 301-863-2233. Check out their menu [here](#).

Talk-in on 145.350 (-) PL-156.7

Meet and Eat 6:30 – 7:30, PVRC meeting afterwards.

Contact the Chapter Chair, Tom Shelton, ND3N at GL1800Winger<at>Verizon<dot>net or (240) 434-3811 with any questions

**The Tidewater Chapter** meets the 3rd Tuesday of every month at Frankies Place for Ribs located in the Fairfield Shopping Center on the corner of Kempsville Road and Providence Road in Virginia Beach, VA. The dinner starts after 6:00 PM and the joint VADXCC and PVRC meeting starts around 7:15 PM. All Amateurs are invited.

If you'd like to add or correct a listing, contact K3TN for inclusion in the Newsletter!

## Now a Word From Our Sponsors

PVRC doesn't ask for dues, but the Club does have expenses. Please donate online [here](#). You can also support the Club by buying from the firms listed who advertise in the newsletter, or by getting your company to sponsor the newsletter!

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**The Weekly DX** - is a product of The Daily DX that can be sent weekly to your home or office via e-mail in the form of a PDF (portable document format). It includes DX news, IOTA news, QSN reports, QSL information, a DX Calendar, propagation forecast and graphics. *Subscriptions are \$27.00 for one year.*

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- 1.5 W RF output
- WIRES compatible
- 1300 Memory channels

Call For Low Price!

#### FT-60R

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Low Price!



#### VX-7R/VX-7R Black

- Wideband RX - 900 Memories
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- Li-Ion Battery
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- Built-in CTCSS/DCS
- Internet WIRES compatible

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#### VX-6R

- 2M/220/440HT
- wideband RX - 900 memories
- 5W 2/440, 1.5W 220 MHz TX
- Li-ION Battery - EMI system
- Fully submersible to 3 ft.
- CW trainer built-in

NEW Low Price!



#### VX-150

- Direct Keypad Entry
- 5w output
- 200 memories
- Ultra Rugged

Call Now For Special Pricing!



#### FT-575D

- Ultra compact HF, VHF, UHF
- 100w HF/6M, 50w 2M, 20w UHF
- DSP included • 32 color display
- 200 mems • Detachable front panel (YSK-857 required)

Call for Low Price!



#### FT-7800R 2M/440 Mobile

- 50w 2m, 40w on 440mhz
- Weather Alert
- 1000+ Mems
- WIRES Capability
- Wideband Receiver (Cell Blocked)

Call Now For Your Low Price!



#### FT-2000 HF + 6M tcvr

- 100 W w/ auto tuner • built-in Power supply
- DSP filters / Voice memory recorder
- 3 Band Parametric Mic EQ • 3 IF roofing filters

Call Now For Low Pricing!



#### FT-8900R Quadband Transceiver

- 10M/6M/2M/70CM • Wires capable
- 800+ memories • Built-in CTCSS/DCS
- Remotable w/optional YSK-8900

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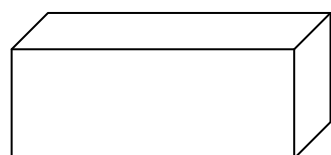
# Attention: Contesters

7 Big Problems that are Probably Affecting Your Scores Right Now!

and

How The RF Connection's Mike-Link and  
Shure® Legendary Performance™ Broadcast Headsets

Solve them ALL!



Your Radio

← Mic/PTT cable  
RX Audio: L/R cable  
From Footswitch →



The RF Connection's  
Mike-Link

← Headset cable →



Shure BRH440M  
Broadcast Headset

## Problem #1: Foot Not Near Footswitch, QSO Missed

### Solution #1

Use Your Finger Instead!

- Mike-Link finger-touch PTT
- Momentary SPST switch
- Positive tactile feel



## Problem #5: Operating CW, you have a "pain in the head" after "Y" hours on-air

### Solution #5 - Use Mike-Link

Periodically, Flip the Reverse/Inphase Audio Switch

- Reverses mono audio source for greater listening pleasure



## Problem #2: You wear eyeglasses and you have a "pain in the temple" after "X" hours on-air

## Problem #3: Brand 'Z' comfortable headset solves problem #2, BUT increases external background noise

### Solutions #2 & #3

Use Shure BRH440M  
Broadcast Headset

- External background noise isolating
- Closed back—noise isolating
- Gamer-style, circumaural (over-the-ear) ear cup pads



## Problem #6: Special microphone is needed for your ICOM radio

## Problem #7: External batteries needed when your ICOM-specific headset is used with other radio brands

### Solutions #6 & #7

Use Mike-Link & Shure BRH440M

- Built-in, user-selectable, Active ICOM pre-amp
- External power/battery NOT required
- Built-in, user-selectable mic input impedance 2.5K or 10k

Call For Your FREE REPORT:

"The R.F. Connection's 'Mike-Link' and  
Shure® Legendary Performance™  
Broadcast Headsets"

Call Joel for your SPECIAL PVRC PRICE!

# 301-840-5477

## Problem #4: "RF in your mic audio OM!"

### Solution #4 - Use Mike-Link

Ferrite RF suppression chokes included on:

- microphone audio
- receiver audio
- PTT

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[DX Engineering](#) can provide you with everything you need to stay competitive, including advice from our team of experienced Amateur Operators. Plus, DX Engineering ships faster than anyone else in the industry.

## **Amphenol RF Connectors and Adapters**

All your precision Ham gear doesn't mean much if you're not using the proper coaxial cable connections. DX Engineering carries [Amphenol RF](#) connectors to ensure your gear is operating at its full potential. [Amphenol RF](#) supplies the must-have adapters and a variety of connector mounting solutions for your shack.



## **Times Microwave Systems**

From cables and connectors, to the tools to put it all together, Times Microwave Systems is asked for by name by operators who demand performance and reliability. The LMR [Cable](#) is an excellent choice for both in-shack jumpers and long outdoor antenna runs. You can also get Times [Connectors](#) to complete your assembly. Times Microwave [Coaxial Cable Prep Tools](#) ensure it all goes together properly.



## **KD9SV Products**

Get the most from your low band receive system! KD9SV's [80/160M Preamps](#) are the perfect complement to receiving loops, pennants, flags, Beverages or active arrays. The KD9SV [Front End Saver](#) essentially doubles as an amplifier keying interface to prevent transmitted RF energy from going directly back into your radio. That's just the start, find all of KD9SV's products at [DXEngineering.com](#).



## **Loos & Co. Cableware Division**

It's antenna maintenance season—make sure your guy lines are ready for another year. Loos [Guy Line Tension Gauges](#) offer professional accuracy and are easy to use. They'll accept lines from 3/32" to 3/8" O.D. DX Engineering also carries a handy [Guy Line Clamp Kit](#), which includes a set of 6 clamps to terminate and secure your guy lines.



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