



The Perfect Traveler and Contest Headset

Fred Hopengarten, K1VR

Criteria: Travel + Contests

- **Tolerable on my head**
- **Noise canceling**
(less fatigue on long plane rides)
- **Travel (6Y1V, 4X0W, KH7X, KM1W, K1LZ)**
 - **folding + travel case a nice feature**
- **Plug into computer (Skype)**
- **Plug into cell phone (business calls)**
- **Plug into transceiver in place (bias)**
- **Decent contest audio**
- **Won't break easily**
- **Affordable**

Heil ProSet

- **Very popular**
- **Little ANR**
- **No NC**
- **HC-4**
- **\$155**



Definitions

ANR= Acoustic Noise Reduction or Noise Isolation , also passive noise reduction

NC = Noise Canceling or Active Noise Cancellation

Heil Pro-7

- ANR (spec: 26 dB); not NC
- Phase reversal switch
- 17 oz.
- Clamp on feeling?
- Awkward on plane
- HC-4
- \$276



Pilot USA PA-1200

- ANR (spec 24 dB); not NC
- 32 ohm speakers
- Clamp on feeling?
- Awkward on plane
- 15.4 oz (437 grams)
- \$140



Other models: <http://pilot-usa.com/headsets.html>

Arlan Communications

RS60CF + RS20

- **ANR (spec: 24 dB); not NC**
- **Comfy; great reviews**
- **Excellent for multi-op phone
if next to a screamer**
- **"D/C knock-off"**
- **Options**
- **Awkward on planes**
- **Dynamic or electret**
- **\$289**



<http://www.arlancommunications.com/products/amateurRadio/radioSport/RS60CF.asp>

W2ENY

“Gamer” headset?

All plastic

Little ANR; No NC

Includes battery box

\$60



http://w2eny.com/headset_premium/

Yamaha CM-500

- **Some isolation**
- **No cancellation**
- **W/ battery box**
- **Widely used**
- **Many happy users**
- **Mike requires equalization; has a lot of bass**
- **Cloth earpiece covers for the Heil ProSet fit the CM-500 perfectly**
- **Does not fold; Awkward on a plane**
- **\$50-60**



Why Do I Like Noise Canceling?

- **Allows lower audio volume**
- **Eliminates potential hearing damage**
- **Reduces fatigue on plane, in contests**
- **Will not help next to Pier Luigi, W1NA**
(Solution: Separate room, or ANR 24-26 dB).
- **Disadvantage: needs batteries**

Homebrew by K1DGG

- **Bose QC2 – noise canceling**
- **Boom mike from Heil BM-10**
- **Buy several clips. They break.**



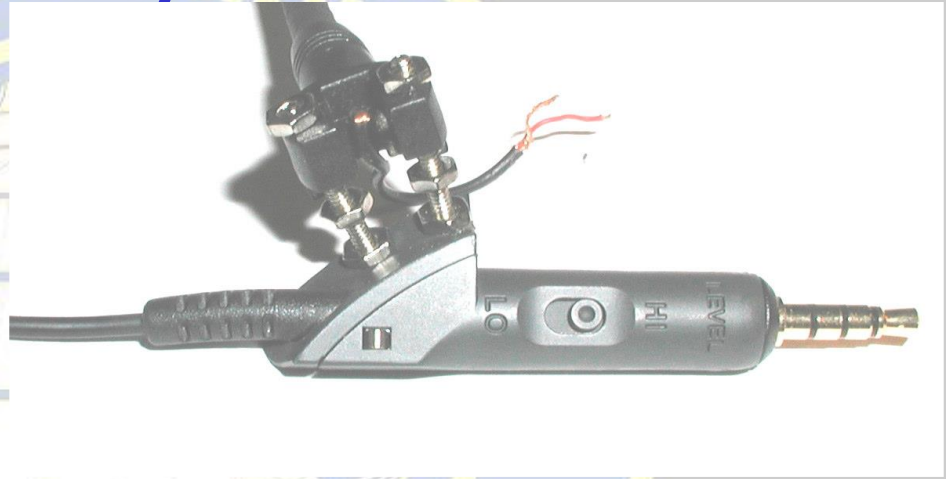
Homebrew by K1DG

- **Bose QC2 – noise canceling**
- **Boom mike from Heil BM-10**
- **Buy several clips. They break.**



Homebrew by K1EP

- Bose QC2 or QC15 – noise canceling
- Boom mike from Heil ProSet
- N1EU: “So much mass is attached to so little plastic”



More Homebrew

- **Passive acoustic isolation**
- **No NC**
- **Sale at Harbor Freight \$10.99**
- **Needs somebody's mike (homebrew or ModMic)**
- **Add earbuds for \$5-20, or \$1,000 (rock star molded; K3NA solution)**



Direct Sound Extreme Isolation EX-29 Earphones

- Rave reviews from
K1CC + EI1Y crew
- ANR (Spec: -29 DB); not NC
- Fold for travel
- Walmart or eBay
- \$129.95 + \$7 ship
- Needs somebody's mike
(homebrew or ModMic)

<http://www.extremeheadphones.com/passive-noise-isolation-hearing-protection-headphones/studio-products/ex-29-headphones/>



Pro: Dave Clark

- **Isolation, not cancellation**
- **Not travel friendly**
- **Don't fold**
- **Mike not removable**
- **K1WHS: H10-13S (Stereo)**
- **\$175? Used on eBay**



Bose QC 15

No longer sold new – see QC 25

- Noise canceling
- Soft cushions; comfy on plane
- Travel Bag
- \$300 (+ \$30 for cell phone adapter kit below, but kit no longer available new)
- No mike



Bose QC 25

- Noise canceling
- iPhone/iPad or Android controls + mike
- Bypass (if battery dead)
- Colors
- Soft cushions
- Travel Bag
- \$300



Bose QC 25

- Folds smaller for travel than QC-15s
- Case contains holder for spare battery
- Single AAA battery = 35 hours



Review at <http://www.cnet.com/products/bose-quietcomfort-25/>

UFlyMike for Bose QC 15 or QC 25

- KM3T: likes it
- W1FV: RFI problems, flat audio, prefers Heil HC4
- \$224 (+300 for the QC 25)

QuietComfort 25



The ModMic

- “Keep your headphones, add a ModMic”
- Mounts with removable sticky magnet
- Separates easily
- Travel Bag
- Needs bias box for direct use
- \$43 (+ \$5 shipping)

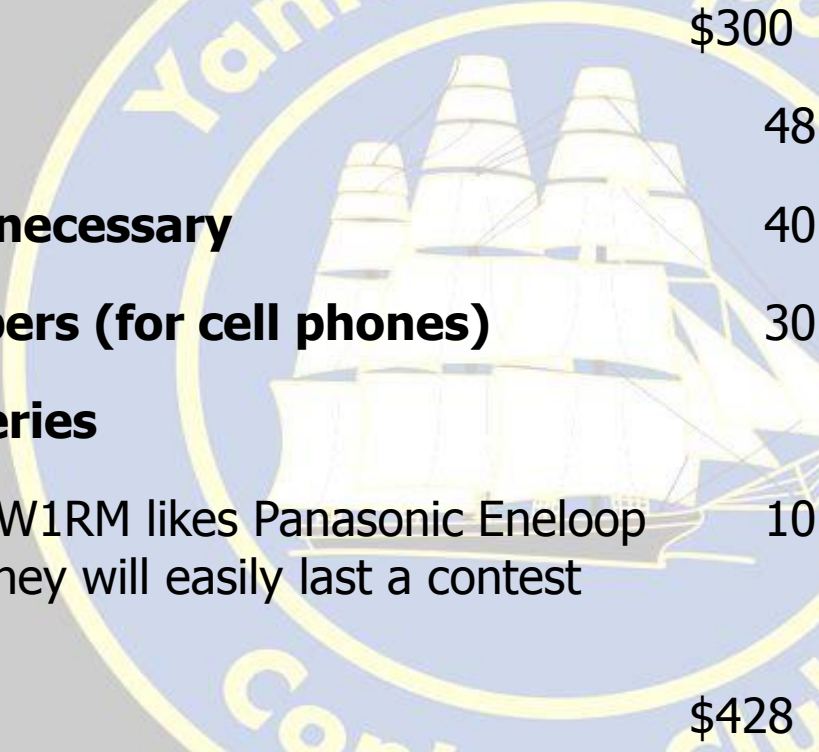


In Ear + NC? Bose QC 20

- **Where mount mike?**
- **Android or Apple versions**
- **Rechargeable battery –
16 hours**
- **\$300**



K1VR Solution for Hamming + Business Travel



•Bose QC 25	\$300
•ModMic	48
•Bias box, if necessary	40
•Bag of jumpers (for cell phones)	30
•Bag of batteries	10
(For long life, W1RM likes Panasonic Eneloop Pro. He says they will easily last a contest and more.)	
Total	\$428

Exception: For multi-op phone contests where another op shouts, Extreme Isolation EX-29 headphones (\$137) with ModMic (using second sticky magnet, same ModMic on both headsets)



Tony Brock-Fisher, K1KP

Topics

- Why MOAS?
- MOAS II – What it is, What it does
- System Architecture – What it Looks Like
- Software
- Configurability & Setup
- Operator's Perspective
- Conclusions – Why YOU should use it!

