## **ValueGuide**

#### Our best value analog/digital portable radios

The selection of a digital portable radio can be condensed down to a single consideration - Does it do what you want it to do at a price you are willing to pay? The following is an evaluation of three UHF portable radios, all priced under \$400. The available features are listed on the left with applicable capabilities listed for each radio on the right. All of these radios compete with the Motorola CP200d which is not listed (See Note 7).

#### **Features and Functions**



#### **Price**

Standard speaker-microphone Heavy duty speaker-microphone Replacement battery (OEM) std. Replacement battery high cap. PC Programming kit (USB) Warrantv Power output Audio output Channel capacity (Analog/Digital) LCD Screen and DTMF Keypad Eligible for flat radio repair (2) Priority scan Battery Type Battery Life (Analog/Digital) Charger Type Emission Type Frequency Range 2-Tone analog paging decode Pseudo Trunk (See Note 4) Encryption 2-Way Text messaging capable MIL-SPEC Rating IP Water resistance rating (3) Size Weiaht GPS capable Audible CH No. Announce Intrinsically Safe Rated (5)

Specification sheet available at:

#### CSI CS600/700



\$285 See Note (1) \$29 (See Note 6) \$39 \$59 \$69 (2000 mAh) \$59 1 year (See Note 2) 4/2/1 watts 1000 mW 32/1000 Yes Yes Yes 1700 mAh LI (2000 Opt.) 10 - 14 hours Desk rapid (2-3 hours) 2 slot DMR/Analog 400-470 MHz (Available March 2014) No **EDSI Standard** Yes 810F IP65 4.45 x 2.18 x 1.38" 9.7 Ounces

Optional upgrade

Yes

www.info4u.us/cs700.pdf

# Hvtera PD702 \$59

**\$399** (through 12/31/13) \$49 (See Note 6) \$79 (2000 mAh) \$89 (2500 mAh) \$79 5 years (See Note 2) 4/1 watts 500 mW 16/32 No Yes Yes 2000 mAh Lithium Ion 11 - 16 hours Desk rapid (2-3 hours) 2 slot DMR/Analog 400-470 MHz Yes Yes **EDSI Standard** No 810F IP67 4.91 x 2.16 x 1.38" 11.84 Ounces Optional upgrade Yes

www.info4u.us/PD702.pdf

### **Hvtera PD602**



\$369 \$49 (See Note 6) \$59 \$49 Not available \$79 2 years 4/1 watts 500 mW 16/32 No No Yes 1500 mAh Lithium Ion 16 hours digital Desk rapid (2-3 hours) 2 slot DMR/Analog 400-527 MHz Yes Yes **EDSI Standard** No 810G IP67 4.68 x 2.12 x 1.06" 10.22 Ounces Optional upgrade Yes

www.info4u.us/PD602.pdf

- (1) Take your choice, the CS-600 built for heavy work use or the CS-700 with advanced features, LCD display and more!
- (2) PD702 has a 5 year warranty if purchased before 12/31/13. See www.info4u.us/TimeShare.pdf for other plans.
- (3) See <a href="http://en.wikipedia.org/wiki/IP">http://en.wikipedia.org/wiki/IP</a> Code for additional information on IP ratings.
- (4) Provides a means of automatically selecting an available slot for immediate communications (No user action required).
- (5) The lowest priced Intrinsically safe portable recommended is the analog TC-700ExPlus.pdf priced at \$449.
- (6) For more information on Speaker-microphones, please see following page.
- (7) CP200d not listed since prices are higher with no significant features or specifications exceeding listed products. Summary - The CS600/700 is lighter, louder and less expensive than other products plus the CS700 has text messaging capability and up to 1000 channel capability. The PD702 includes a 5 year warranty. The PD602 is a

## **Value**Guide

How to evaluate speaker-microphones



The price of a speaker microphone depends on basically five factors. The lowest priced microphones (as shown at the above left are small, lightweight and very popular. Generally these microphones are not IP rated although most would be equal to an IP54 rating. The Larger microphone in the center is more rugged, larger, and has a larger, more durable cord. The least expensive models will use a two pin connector although other connectors are available. Top of the line American made microphones such as the Stone Mountain Phoenix (shown above on the far right) are field repairable and have an IP68 water submersible rating.

Prices will typically vary from \$29 to \$49 for the smaller lightweight models shown in the center above. An audio jack is available at the bottom to allow connection of an external earpiece (not included), if desired. There is no IP rating. Warranty is one year. Screw on type jacks commonly used with digital radio models and some top tier analog radios such as the F50V will add another \$20.

The ruggedized models with an IP54 rating (See above left) will normally range in price from \$39 to \$59 depending on whether the speaker-microphone is purchased as an accessory with a radio, or purchased directly from a good quality aftermarket supplier such as ARC, or Cobalt AV. As is the case with the lightweight models, the price will vary depending on the type of connector specified. The two pin connector shown above is included in our budgetary pricing. Screw on type connectors for digital and top tier analog radios will add another \$20. Warranty is two years.

The top of the line Stone Mountain Phoenix carries an IP68 water submersible rating and a two year warranty. This microphone is also field repairable (See brochure at <a href="https://www.info4u.us/Phoenix.Brochure.pdf">www.info4u.us/Phoenix.Brochure.pdf</a>. Although this microphone is available for all of our radios, it is best suited for use with top tier analog or digital radios since it is in the upper end of the price range at \$69 for the two pin model, and \$20 more for top tier analog or digital radios. If you have any questions, just give us a call at 800.489.2611.

The Falcon Team At your service!