

## **VH217X VHF DIGITAL PORTABLE RADIO**

VDV Media's compact VHF digital portable radio line offers enhanced features for the budget conscious volunteer public safety, public service, government, industrial and SMR system user segments. Large capacity and Zone programming facilitate departmental, interoperability, mutual aid, tactical, regional and workgroup channel organization. Digital scrambling provides voice security and Encryption control adds system-compliant higher level voice security and dispatch functions. Full caller Tx radio PTT ID, Caller ID and non-voice status and text messaging storage, recall and display. DTMF or Two-Tone Selective Call provides built-in talkback paging capability.

### **[General Features]**

- 5 W (136 - 174 MHz)
- Digital DTRK, Conventional
- Advanced Technology: TDMA, MDMA
- Digital Secured Communications
- FEC: Feed Forward Error Correction.
- 128 Channels / 128 Zones
- Single Priority Scan
- 8 Character Alphanumeric LCD
- VOX Ready
- DTMF & Two-Tone Decode/Encode
- Caller ID option
- MIL STD C/D/E/F (included Driven Rain)
- IP54/55 Water & Dust Intrusion
- Intrinsically Safe Option
- Voice Secured Scrambling
- Encryption / ANI Control
- Emergency Call; Emergency Man Down



### **[Other Features]**

- MIL-STD 810 C/D/E/F
- MIL-STD "Driven Rain"
- IP54/55 Water & Dust Intrusion
- Field Programming & Tuning
- English/Spanish Program Screen Language
- Windows Programming & Tuning/Firmware Uploading
- PF Keys
- Emergency Call Features
- Emergency Man Down Option
- DTMF Auto-Dial (9 Numbers)

## GENERAL

Frequency Range

Type 1 136-174 MHz

Number of Channels: Zone Max. 128 per Radio

Conv. Ch Max. 128 per Zone

Channel Spacing: Wide/Narrow 25, 30 kHz/12.5, 15 kHz 25 kHz/12.5 kHz

Battery Voltage 7.5V DC±20% Battery Life (5-5-90 duty cycle, during hi-power, battery saver off)

with 1200mAh Approx. 8 hours

with 2000mAh) Approx. 12 hours

with 1950mAh Approx. 11 hours

Operating Temperature Range\* -22°F ~ +140°F (-30°C ~ +60°C)

Frequency Stability ±2.5ppm (-22°F ~ +140°F)

Antenna Impedance 50 Ohms

Channel Frequency Spread

Type 1 38 MHz 40 MHz

Dimensions (W x H x D), Projections not Included

Radio Only 2-7/32 x 4-5/16 x 5/8 in. (56 x 109 x 16.6 mm)

with Battery 35L 2-7/32 x 4-5/16 x 1-1/4 in. (56 x 109 x 31.7 mm)

with Battery 25A/26N 2-7/32 x 4-5/16 x 1-1/2 in. (56 x 109 x 37.9 mm)

Weight (net)

Radio Only 7.2 oz. (205 g ) (includes supplied accessories)

with 25A 14.6 oz. (415 g ) [with antenna (KA-22/23) and belt clip (KBH-12)]

with 26N 16.0 oz. (455 g ) [with antenna (KA-22/23) and belt clip (KBH-12)]

with 35L 12.0 oz. (340 g ) [with antenna (KA-22/23) and belt clip (KBH-12)]

FCC ID

Type 1 ALH34703110 ALH34713110

Type 3 — ALH34713130

IC Certification

Type 1 282D-34703110 282D-34713110

Type 3 — 282D-34713130

### **RECEIVER (Measurements made per TIA/EIA-603)**

Sensitivity (12dB SINAD) Wide 0.25 µV, Narrow 0.28 µV

Selectivity Wide 70 dB, Narrow 65 dB

Intermodulation Distortion Wide 65 dB Narrow 60 dB

Spurious Response 65 dB

Audio Output (4 ohm impedance) 500 mW with less than 5% distortion

### **TRANSMITTER (Measurements made per TIA/EIA-603)**

RF Output Power: VHF High 5 W , Low 1 W

Spurious Response 70 dB

Type of Emission: Wide 16KØF3E, Narrow 11KØF3E

FM HUM & Noise: Wide 45 dB, Narrow 43 dB

Audio Distortion Less than 5%

Note: Specifications subject to change without notice