

WOLFSin



The **WOLFSin** WHD-200 & WHD-220 UHF/VHF, IP55/54 dust/water protected professional sub compact DMR transceiver.

The new tough, rugged and smart leader of the pack in professional DMR commercial grade sub compact hand portables.

Born tough to work hard



◆ largest in class LCD, full but easy to see and react to display, with the end users name / dept permanently on display and back lit as required.

◆ Without doubt the WOLFSin WHD-220 has the most perfectly shaped PTT ever manufactured. It is contoured and shaped to instantly make tactile contact with the human index finger normally used to Press To Transmit.



- Wide band frequency.
- VHF: 136-174 MHZ
- UHF: 400-470 MHZ
- ALPHA IP55 & MIL SPEC: 810 C- G
- DELTA IP54 & MIL SPEC: 810 C- G
- COMPACT (H x W x D in mm)
105.00 X 56.0 X 31.00
- WEIGHT: 240 GRAMS
- ALPHA ~ 160 CHANNELS*
- DELTA ~ 96 CHANNELS*
- ALPHA ~ 10 ZONES*
- DELTA ~ 6 ZONES*
- 800 mW of audio
- 1600 Mah Li-ion Battery
- 13.5+ hour plus duty cycle
- Direct & Repeater mode
- Multi voice annunciation function
- Channel, Zone & Battery capacity
- Mixed Channel (A & D)
- Fast key pad lock
- 10 digit personal name tag
- Digital advanced scan
- Analogue advanced scan
- Analogue TOT, BCLO, VOX
- Digital mic gain (Internal & External)
- Analogue Comander
- Analogue repeater tail reverse
- Quick text TX/RX (200/220 up to 20)
- Basic digital encryption
- Advanced digital encryption
- User unique defined encryption
- CPS Read and write locks
- **👉 Your name here**
- Quick PTT
- **Lone worker**
- **Emergency call**
- **One touch calling (5)**

The WOLFSin WHD-200/220 can be expanded to offer 1000 channels over 64 zones*. **Note specifications can change due to improvements without notice.**



GENERAL

- 1 POWER SUPPLY
- 2 FREQUENCY BANDS
- 3 MODULATION TYPE
- 4 FREQUENCY CONTROL
- 5 CHANNEL SPACING
- 6 NUMBER OF CHANNELS
- 7 TEMPERATURE RANGE
- 8 FREQUENCY STABILITY
- 9 HUMIDITY
- 10 BATTERY LIFE
- 11 DIMENSIONS
- 12 SHOCK VIBRATION
- 13 HUMIDITY. RAIN. SALT FOG. DUST

RECHARGEABLE AT 7.2V
 136-174 MHz /400-470 MHz
 F3E
 P. SYNTHESIZER
 25KHZ/12.5KH PROGRAMMABLE
 96-1000*-CHANNELS-*EXPANDED
 OPERATION <30°C~+65°C
 ±1.5 PPM
 OPERATIVE 90%+
 13.5 HOURS DIGITAL (1200mA)
 105.00 X 56.0 X 31.00
 MEET MIL-STD-810 C/D/E/F/G
 MEET MIL Spec 810 C,D,E,F,G IP55/54 (M1 version)

TRANSMITTER

- 1 TRANSMITTER OUTPUT POWER
- 2 MAXIMUM DEVIATION
- 3 ADJACENT CHANNEL POWER
- 4 SPURIOUS EMISSION
- 5 AUDIO DISTORTION
- 6. HUM & NOISE
- 7. Digital protocol
- 8. 4FSK Digital mode
- 9. 4FSK Modulation accuracy
- 10. FM modulation model

5W /1 (VHF) 4W /1(UHF)
 5.0KH @25KHZ : 2.5KH @12.5KHZ
 Better than -50 dB
 Less than -36dBm
 Equal or less than 3%
 Better than >45dB @25KH + 40dB @12.5KHZ
 ETSI TS 102 361-1 -2 -3
 12.5 KHZ (data only): 7K60FXD, Data and Voice 7K60FXE
 5% at 25oC, 10% at extreme temperature.
 12.5 KHz: 11K0F3E, 25 KHz: 16K0F3E

RECEIVER

- 1 SENSITIVITY (Digital and Analogue)
- 2 ADJACENT CHANNEL SELECTIVITY
- 3 SPURIOUS RESPONSE REJECTION
- 4 INTERMODULATION RESPONSE REJECTION
- 5 AUDI DISTORTION
- 6 AUDI OUTPUT POWER
- 7 HUM & NOISE

0.22uV @12dB SINAD
 Better than 60dB at 12.5 KHz
 Better than 70dB (75 dB TIA603C)
 Better than 65dB
 Equal or Less than 3%
 800mW at 16 ohm load
 Better than >45dB @ 12.5KHZ
 Specification may change without notice.

Wolfsin radios are tested and retested in the remote Scottish highlands in the most extreme conditions in the UK. Not only are they manufacture-laboratory tested to the usual MIL Spec 810, TIA/EIA603 and IP specification but are continually extreme tested on land, air and sea trials for months in the harshest conditions possible.

Wolfsin is based in the outskirts of Inverness, Scotland and New Zealand where we regularly leave Wolfsin radios in biting cold -10oC to -20oC conditions for days and nights on end often lying in inches of frozen snow, we test them in driven rain in 100 mph winds (IOL 2014/15). We use them in open waters where they are soaked with sea water*, we heat them to plus 60-70-80oC and then we drop test them again. We test them in all weathers whilst on hiking expeditions, we climb mountains with them (and deliberately drop them) in all weathers and conditions. We deliberately drop them multiple times onto hard surfaces, throw them, strike them, sit on them, drive over them with a 2.5 ton 4 X 4 truck, then we do it all again and again until were satisfied that the Wolfsin radio is tough enough to stay the leader of the pack. Only once we have abused and broken the Wolfsin radio do we set about repairing it, ensuring that all Wolfsin radios are serviceable so as to give a longer life and better return on your investment.

Wolfsin radios are designed, redesigned and improved to be simply better, even our testing methods are simply better.

As our name suggests, everyone in the **Wolfsin** family works hard to make our radios work even harder.

DEALERS NAME & DETAILS (STAMP OR CARD)

The Wolfsin WHD-200i series radio comes supplied with a 1700 Mah Lithium Ion battery, heavy duty screw in belt clip, single fast charger pod, UK 3 pin PSU, banded UHF ¼ whip aerial or VHF Helical aerial, user manual.

A full range of audio, battery and charging accessories are available.

*Salt and contaminated water must be removed from external metal parts as advised in the user manual and by Wolfsin dealers. Ultimate submersion depth and time can be affected by excessively hot or cold water, running water increases pressure against seals and will reduce the duration the radio can remain submerged without water ingress. Audio accessory cover must be fully and properly closed to meet the full IP standard stated.