The new DR-638 dual-band transceiver from Alinco makes a sharp attractive addition to any operating environment. Starting with full duplex capability, cross-band repeat and a remotely mountable control head, the DR-638 is a solid performer for base or mobile operation. With a highly visible large, 6 character alphanumeric display features variable display colors for custom illumination. Ignition key on/off feature, theft alarm, extended receive capabilities, a variety of signaling and scan modes are also included at no extra cost! The backlit, DTMF microphone EMS-77 allows remote control of the transceiver. Put the DR-638 with its good looks and smart operating features to work right away in your base station or vehicle as a reliable and easy-to-use, high-quality VHF/UHF transceiver that is perfect for simplex and repeater operations!
**FEATURES**

- VHF/UHF full duplex operation includes V/V and U/U modes.
- 758 channels programmable (HE: available as programmable memory channels)
- H/M/L power output settings
- 50W/25W/10W/5W
- Large 6 character alphanumeric backlit display
- Inversion scrambling (DR-638 only)
- Internal duplexer – single antenna connector
- Removable control head can be remotely mounted or inverted for optimal speaker placement
- Expanded receive range includes AM civil aviation band (DR-638 only)
- Crossband repeat (DR-638 only)
- Variable Display color tone
- Illuminated DTMF EMS-77 microphone allows direct VFO frequency entry and remote control of transceiver
- CTSS, DCS, Tone-Burst Tones, 2-tone and 5-tone signaling
- CTSS Tone and DCS scan
- TOT, BCLG, Talk Around, Reverse and ANI
- Utility software and cable cloning
- Ignition key activated power on/off feature

[Standard accessories]

Standard accessories declared herein are our factory default and may vary at moment of sales depending on the market and Dealers’ sales policy.

[Spare accessories] Bracket and DC cable may slightly differ from the original parts.

ADF768: Mobile bracket
ADUJ38: DC Power Cable (15A Fuse)
EMS-77: Back-Lit microphone with key pad

**Options**

- Power supply
- Front unit separation kit
- Programming cables
- PC connection kit
- Cable cloning

**SPECIFICATIONS**

**General**

- Tested to comply MIL-STD-810G
  - Shock: Method 514.6/I, IV
  - Vibration: Method 516.6/I
- DR-638
  - Frequency Range (MHz) 136–174MHz/400–480MHz
  - RX: 100–180MHz/AM/FM/220–260MHz, 400–525MHz, 350–395.95MHz (FM)
  - DR-638HE
  - TX/RX: 144–146MHz/430–440MHz
- Number of Channels: 758 channels
- Channel Spacing: 25KHz (Wide mode), 20KHz (Middle mode), 12.5KHz (Narrow mode)
- Channel step: 2.5KHz, 5KHz, 6.25KHz, 8.33KHz, 10KHz, 12.5KHz, 15KHz, 20KHz, 25KHz, 30KHz, 50KHz
- Operating Voltage: 13.8V DC ±15%
- Squelch: Carrier/CTCSS/DCS/5-Tone/2-Tone/DTMF
- Frequency Stability: ±2.5ppm
- Operating Temperature: -20°C ~ 60°C
- Dimensions: W x H x D = 139 x 40 x 212 mm or 5.47 x 1.58 x 8.35 inches approx.
- Weight: 1.14kg or 40.21 ounce approx.

**Receiver**

- Wide mode
  - Sensitivity (12dB Sinad) ≤0.25μV
  - Adjacent Channel Selectivity: 270dB
  - Intermodulation: 260dB
  - Spurious Emission: 270dB
  - Audio Response: +1~-3dB (0.3~3KHz)
  - Audio Distortion: ≤5%
  - Audio power output: >2W@10%
- Narrow mode
  - Sensitivity (12dB Sinad) ≤0.35μV
  - Adjacent Channel Selectivity: 260dB
  - Intermodulation: 260dB
  - Spurious Emission: 270dB
  - Audio Response: +1~-3dB (0.3~2.55KHz)
  - Audio Distortion: ≤5%
  - Audio power output: >2W@10%

**Transmitter**

- Wide mode
  - Power Output: 50W/25W/10W/5W (VHF), 40W/25W/10W/5W (UHF)
  - Modulation: 16KΦF3E, 11KΦF3E
  - Adjacent Channel Power: 270dB
  - Hum & Noise: 240dB
  - Spurious Emission: 260dB
  - Audio Response: +1~-3dB (0.3~3KHz), +1~-3dB (0.3~2.55KHz)
  - Audio Distortion: ≤5%
- Narrow mode
  - Power Output: 25W/10W/5W (VHF), 20W/10W/5W (UHF)
  - Modulation: 16KΦF3E, 11KΦF3E
  - Adjacent Channel Power: 270dB
  - Hum & Noise: 230dB
  - Spurious Emission: 260dB
  - Audio Response: +1~-3dB (0.3~3KHz), +1~-3dB (0.3~2.55KHz)
  - Audio Distortion: ≤5%

- Specifications are subject to change without notice due to advancements in technology.
- Peripherals like an antenna, mounting hardware, coax cable etc are required for proper operation.

**DR-638HE**

European amateur radio version

Authorized Dealer: