

ALINCO

Mobile/Base
VHF+UHF Analog FM Land Mobile Transceiver

DR-638



Mobile/Base
VHF+UHF FM Amateur Radio Transceiver

DR-638HE

Dual-Band Mobile Transceiver with Full Duplex Capability

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!



DR-638 **FC IC** Land-Mobile OnlyDR-638HE **CE 0700** Amateur radio Only

RoHS

**ALINCO**
INCORPORATED

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-
VHF:50W/25W/10W/5W,UHF:40W/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
- CTCSS,DCS,Tone-Burst Tones,2-tone and 5-tone signaling
- CTCSS Tone and DCS scan
- Variety of scan modes and priority channel monitoring
- TOT, BCLO, 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.

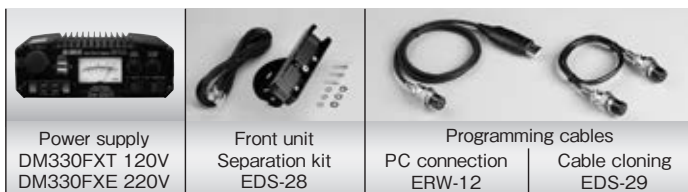
[Spare accessories] *Bracket and DC cable may slightly differ from the original parts.

ADFM78 : Mobile bracket

ADUA38 : DC Power Cable (15A Fuse)

EMS-77 : Back-Lit microphone with key pad

Options



SPECIFICATIONS

General

Tested to comply MIL-STD-810G
-Shock: Method 514.6/I,IV -Vibration: Method 516.6/I

Frequency Range (MHz)	DR-638 TX : 136~174MHz/400~480MHz RX : 108~180MHz(AM/FM)/220~260MHz, 400~523MHz, 350~399.995MHz(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 \pm 15%
Squelch	Carrier/CTCSS/DCS/5Tone/2Tone/DTMF
Frequency Stability	\pm 2.5ppm
Operating Temperature	-20°C~+60°C
Dimensions W×H×D	139×40×212 mm or 5.47×1.58×8.35 inches approx.
Weight	1.14kg or 40.21 ounce approx.

Receiver

	Wide mode	Narrow mode
Sensitivity (12dB Sinad)	\leq 0.25 μ V	\leq 0.35 μ V
Adjacent Channel Selectivity	\geq 70dB	\geq 60dB
Intermodulation	\geq 65dB	\geq 60dB
Spurious Rejection	\geq 70dB	\geq 70dB
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)
Hum & Noise	\geq 45dB	\geq 40dB
Audio distortion	\leq 5%	
Audio power output	>2W@10%	

Transmitter

	Wide mode	Narrow mode
Power Output	50W/25W/10W/5W(VHF) 40W/25W/10W/5W(UHF)	
Modulation	16K Φ F3E	11K Φ F3E
Adjacent Channel Power	\geq 70dB	\geq 60dB
Hum & Noise	\geq 40dB	\geq 36dB
Spurious Emission	\geq 60dB	\geq 60dB
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)
Audio Distortion	\leq 5%	

Specifications are subject to change without notice due to advancements in NOTE technology.

※ Peripherals like an antenna, mounting hardware, coax cable etc are required for proper operation.



DR-638HE
European amateur
radio version

Authorized Dealer:

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* Projections are not included in the declared dimension values.

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