

ALINCO

VHF FM MOBILE TRANSCEIVER

DR Series **DR-112T** (U.S.Model) / **DR-112E** (Europe Model)

TINY-TOUGH AND TERRIFIC

BIG POWER IN A COMPACT PACKAGE



DR-112T



DR-112E

The ALINCO DR-112T/112E, 2m FM Mobile Transceivers have been specially designed to condense maximum performance and operating convenience into an ultra compact package. An impressive array of features give maximum flexibility in mobile installations.

High Output Power

The DR-112T/112E provide a powerful 45Watts of RF Output with HI/LO powerswitch.

Compact Size and Lightweight.

140(W)×40(H)×170(W)mm (5-1/2"×2"×6-3/4") at 1.1Kgs(2.42 lbs)

14 Multi Function Memory Channels.

The unit contains 14 fully programmable Memory Channels. Each channel stores operating frequency, Standard offset and other useful information.

Highly Visible LCD.

A new color LCD.

6 Channel Spacing steps.

for ease of operation 5, 10, 12.5, 15, 20 and 25 KHz.

4 Scanning Modes.

- (a) VFO -Scanning of the entire band.
- (b) Memory -Scanning of selected memories.
- (c) Programmed Band-Scanning of a selected segment of the band.
- (d) Priority Scanning-Allows selection of a frequency, in VFO or Memory, to serve as a priority frequency.

Restricted Access Operation.

allows for programmable encode/decode sub-audible tones(DR-112T) or a 1,750Hz tone call function(DR-112E).

Microphone

The standard microphone offers:

- (A) UP/DOWN buttons for ease of frequency/Memory selection.
- (B) An LED "ON AIR" indicator and "LOCK" switch to enable/disable microphone function(DR-112E)
- (C) DTMF Encoder built-in.(DR-112T)

Other Outstanding

Features:

- Function Lock Key
- Reverse Key-Inverts TX-RX
- Memory Skip
- Odd Offset
- Multiple Standard Offsets
- Other too numerous list.

Accessories supplied

as standard:

- Hand Microphone(Condenser type)
 - a. 16 button DTMF Microphone(DR-112T) b. Hand Microphone(DR-112E)
- Mobile Mounting Bracket
- Mounting Hardware
- D.C. power Cable

VHF FM MOBILE TRANSCEIVER

ALINCO

SPECIFICATIONS

General

Frequency Coverage144.00—147.995Mhz.(U.S. Version)
 144.00—145.9875Mhz.(Europe) Version)
 Frequency Resolution 5, 10, 12.5, 15, 20 and 25Khz.
 Antenna Impedance 50 ohms unbalanced
 Power Supply requirement 13.8 Volts D.C.
 Current Drain at 13.8V **Receiving**
 Squelched:Does not exceed 500mA
 Transmitting
 High:45W approx 9.5A
 Low: 5W approx.4A
 Dimension **140mm(W) x 40mm(H) x 170mm(D)**
 (5-1/2") x (2") x (6-3/4")
 Weight **1.1Kgs.(2.42Lbs.)**

Transmitter

Output power High:45Watts
 Low :Approx. 5Watts
 Emission Mode **16F3**
 Modulation System **Variable Reactance F.M.**
 Max. Frequency Deviation **±5Khz**
 Spurious Emission **More than 60dB below Carrier**
Microphone **Electret Condenser Microphone**
Operating Mode **Simplex**
 Duplex: **± 600Khz** from receive frequency
 and odd offsets programmable
 DTMF Encoder **Built-in(DR-110T)**

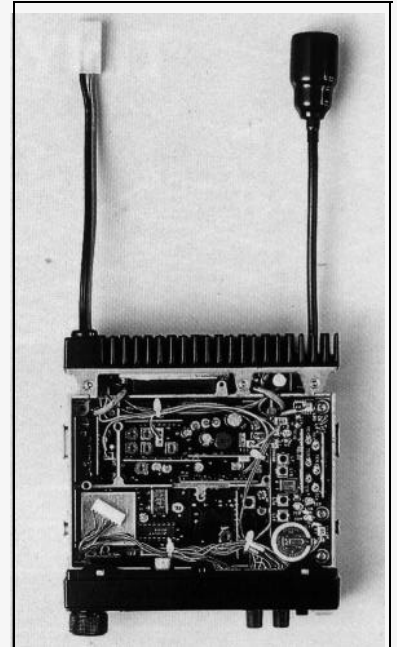
Receiver

Receiving System **Superhetrodyne** dual conversion
 Modulation acceptance **16F3**
 Intermediate frequency **1st 10.7Mhz 2nd 455Khz**
 Sensitivity **12dB SINAD** less than **0.16uV**
Selectivity More than **±6Khz** at -6dB

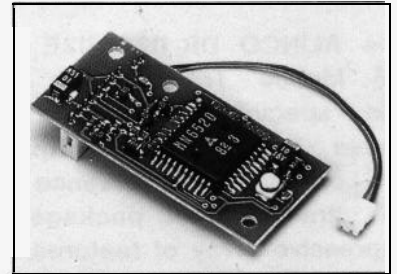
Audio Power Output More than **1.5Watts(8ohms -10% Distortion)**
 Speaker Impedance **8 ohms**

Note:Specifications are subject to change without notice.
 Specifications are guaranteed for amateur band only.
 (Frequency **130MHz-169.995 MHz** can be modified for commercial use.)

Rugged Die-Cast Chassis



Option



Tone Squelch Unit EJ-3U

Front Panel



LCD Panel



- 1 Main Dial
- 2 LCD Panel
- 3 Volume Control
- 4 Squelch Control
- @H/L Switch
- 6 Power Switch
- 7 Function/Memory Write Key
- 8 MHz(Band) Key
- 9 VFO/M/Channel Step Key
- 10 Reverse/Lock Key

- 11 Shift Key
- @Sub Tone/Beep Key
- 13 Priority Key
- @Scan/Memory Skip Key
- 15 Call Channel/Call Channel Write Key (DR-110E: Tone Burst Key)
- 16 Microphone Terminal
- 17 Reverse Indication
- 18 Offset Indication
- 19 Tone Encoder Indication

- 20 Tone Decoder(Tone Squelch)Indication
- 21 Priority Indication
- @Call Channel Indication
- 23 Frequency Indication
- 24 Decimal Readout Point
- @Busy Indication
- @S/R Meter Indication
- @On Air Indication
- 28 Memory Indication
- 29 Memory Channel Indication

Authorized Dealer:



ALINCO ELECTRONICS INC.

Head Office: "TWIN 21" MID Tower Building 23F, I-61, 2-Chome, Shiromi, Chuo-ku, Osaka No.540, Japan
 Factory: I-I-1, Mishimae, Takatsuki, Osaka No.569, Japan

ALINCO ELECTRONICS INC.

438 Amapola Avenue, Unit130, Torrance, CA 90501, U.S.A.