

# ALINCO

# VHF FM MOBILE TRANSCEIVER

DR Series

## DR-110T

(U.S. Model)

## DR-110E

(Europe Model)

### TINY-TOUGH AND TERRIFIC

### BIG POWER IN A COMPACT PACKAGE



DR-110T



DR-110E

The ALINCO DR-110T/110E, 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-110T/110E 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-100T) or a 1,750Hz tone call function(DR-110E)

#### 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-110E)
- (C) DTMF Encoder built-in.(DR-110T)

#### 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-110T)
  - b. Hand Microphone(DR-110E)
- Mobile Mounting Bracket
- Mounting Hardware
- D.C. power Cable

## SPECIFICATIONS

### ● General

Frequency Coverage	144.00 – 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)

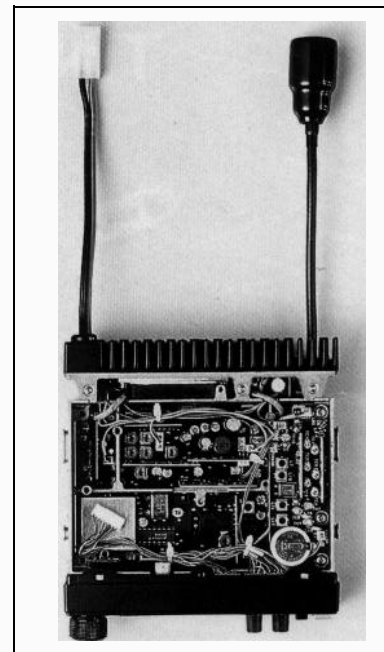
### @ Receiver

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	8ohms

Note: Specifications are subject to change without notice.  
Specifications are guaranteed for amateur band only.

### ■ Rugged Die-Cast Chassis



### ■ Front Panel



### ■ LCD Panel



- |                            |   |   |
|----------------------------|---|---|
| 1 Main Dial                | 11 Shift Key  | 20 Tone Decoder(Tone Squelch)Indication |
| 2 LCD Panel                | @Sub Tone/Beep Key  | 21 Priority Indication                  |
| @Volume Control            | @Priority Key   | @Call Channel Indication                |
| 4 Squelch Control          | @Scan/Memory Skip Key   | 23 Frequency Indication                 |
| 5 H/L Switch               | 15 Call Channel/Call Channel Write Key<br>(DR-110E: Tone Burst Key) | 24 Decimal Readout Point                |
| @Power Switch              | 16 Microphone Terminal  | 25 Busy Indication                      |
| @Function/Memory Write Key | 17 Reverse Indication   | 26 S/R/F Meter Indication               |
| 8 MHz(Band) Key            | 18 Offset Indication  | 27 On Air Indication                    |
| 9 VFO/M/Channel Step Key   | 19 Tone Encoder Indication  | @Memory Indication                      |
| 10 Reverse/Lock Key        |   | @Memory Channel Indication              |

Authorized Dealer:



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