

# TWIN BAND

# ALINCO

## VHF/UHF FM

# Mobile Transceivers

## DR-570T

(U. S. Version)



*Cross Band-Full Duplex*



## DR-570E

(Europe Version)

■ **DR-570T** Output: VHF/UHF HI .... 45W/35W LOW .... 5W/5W (U. S. Version)

■ **DR-570E** Output: VHF/UHF HI .... 45W/35W LOW .... 5W/5W (Europe Version)

The ALINCO, "Twin Band", Model DR-570T/E, VHF/UHF FM Mobile Transceivers have been specially designed to combine two radios into one compact package with maximum operating performance. You get 45 watts on 2 meters and 35 watts on 70cm, 20 memory channels, wide frequency coverage, large multicolor dual digital LCD displays, plus much more!

## FEATURES

### 1. Full Duplex Cross Band Operation

Being a "Twin Band" transmitting on 2 meters while simultaneously receiving on 70cm is no problem at all. This feature allows for cross band .... full duplex operation .... just like a telephone.

### 2. Twin Band Receiver

Simultaneous receiving on both bands. The volume and squelch for each band is independently adjustable via two control knobs.

### 3. Color LCD

Displays frequency, memory number, repeater offset, sub tone's (and activation), signal strength, relative power output, busy indication and much more. The LCD is visible in ALL lighting conditions .... even direct sunlight.

### 4. Illuminated Front Panel Controls

All function buttons and knobs are easier to see at night. The function buttons are also coded by texture for further ease of operation.

### 5. High Power Output

45 watts on VHF and 35 watts on UHF .... 5 watts both (low power setting).

### 6. Multiple Sub-Audible Tone Programmability

Your choice of 37 encoding/decoding sub tones are available to be programmed into both "main" and "sub" bands. (DR-570T)

### 7. Automatic Band Exchange

When the ABX key is activated the "sub" band will automatically be switched to the main band position while a signal is present. If the microphone is not keyed, the frequency will revert to its original "sub" band position when the signal drops. If the PTT is pushed on the microphone the ABX function will be cancelled and the band showing in the "main" band position will remain there.

### 8. Duplexer

The DR-570T/E has an internal duplexer allowing for a single dual band antenna.

### 9. 4 Scanning Modes

Program scan, memory scan, band scan and priority scan. You can intermix the types of scanning between the "main" and "sub" bands. In other words you can scan memory in one band and band scan in the other simultaneously. You can also monitor a single frequency and a priority frequency in each band at the same time!

### 10. Twin Priority Function

Programmable priority in both main and sub bands .... independently samples one memory in 2 meters and one memory in 70cm bands.

### 11. Different "Beep" Sounds

There are over 50 different musical tones indicating individual function confirmation.

### 12. Bell Function

When activated, a received signal will cause the transceiver to "beep" and the symbol for a musical note will flash on LCD.

### 13. One Touch Band Selection

In addition to the ABX function you can swap bands at the touch of a single button.

### 14. Independent "Call" Channels .... One in each band

### 15. One Touch Band Ignore

When this feature is executed, the "sub"-band is removed from the screen and will remain that way until you choose reactivate the functions of the "sub"-band by pressing the button again.

### 16. Channel Spacing Steps

5KHz, 10KHz, 12.5KHz, 20KHz and 25KHz

### 17. Locking Reverse

Allows for monitoring of an "input" frequency.

## MODEL CHART

Type	DR-570T	DR-570E
Frequency Coverage (MHz)	144.00-147.995(VHF) & 440.00-450.000(UHF)	144.00-145.8875(VHF) & 430.00-440.00(UHF)
Channel Spacing (KHz)	5, 10, 12.5, 20 and 25	5, 10, 12.5, 20 and 25
Tone Burst	Not Available	1,750Hz
Subaudible Tone	Included (Encode and Decode)	Not Available or Available (option)
DTMF	Included (16 buttons)	Not Available

# TWIN BAND

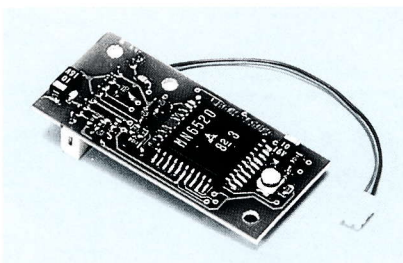
## FEATURE IDENTIFICATION

### ■ Front Panel

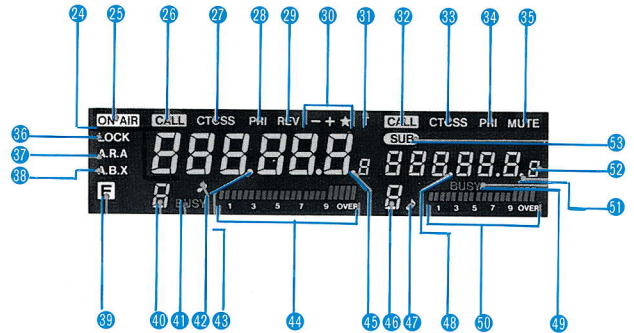
1. Main Band Dial
2. MHz Up Key
3. MHz Down Key
4. LCD Panel
5. Memory Read (MR)/Memory Write (MW) Key
6. VFO/Lock Key
7. H/L Key
8. SUB-band Dial
9. Power Switch/Main Volume Knob
10. Main SQL (Squelch) Knob
11. SUB VOL (Volume) Knob
12. SUB SQL (Squelch) Knob
13. Scan/Memory Skip Key
14. Function Key
15. Shift/Priority Key
16. Auto Band Exchange (ABX)/  
Active Repeat Assistance (ARA) Key
17. Tone/Tone Selection Key
18. Twin/Single Selection Key
19. Reverse/Channel Step Key
20. Mute/Beep Key
21. Band/Sub Key
22. Call Channel/Bell Key
23. Microphone Terminal



Option (DR-570E)



Tone Squelch  
Unit EJ-5U



### ■ LCD Panel

24. Main Band Frequency Indicator
25. ON/AIR Indicator
26. Main Band Call Channel Indicator
27. Main Band CTCSS Indicator
28. Main Band Priority Indicator
29. Reverse Indicator
30. Duplex Indicator
31. Tone Encoder Indicator
32. Sub Band Call Channel Indicator
33. Sub Band CTCSS Indicator
34. Sub Band Priority Indicator
35. Mute Indicator
36. Lock Indicator
37. ARA Indicator
38. ABX Indicator
39. Function Indicator
40. Main Band Memory Channel Number Indicator
41. Main Band Busy Indicator
42. Main Band Bell Indicator
43. Main Band MHz Decimal Point
44. Main Band S/Rf Meter Indicator
45. Main Band KHz Decimal Point
46. Sub Band Memory Channel Number Indicator
47. Sub Band Bell Indicator
48. Sub Band MHz Decimal Point
49. Sub Band Busy Indicator
50. Sub Band S Meter Indicator
51. Sub Band KHz Decimal Point
52. Sub Band Frequency Indicator
53. Sub Band Indicator
54. 55. UP/DOWN Key
56. Transmit Lamp
57. UP/DOWN Lock Key

## SPECIFICATIONS

## TWIN BAND

### ● General

Frequency Coverage .....	144.00–147.995MHz (TX), 130–169.995MHz (RX) 440.00–449.995MHz (TX) (RX) (U. S. Version) 144.00–145.9875MHz (TX), 130–169.9875MHz (RX) 430–440MHz (Europe Version)
Frequency Resolution .....	5, 10, 12.5, 20 and 25KHz, steps
Antenna Impedance .....	50 Ohms unbalance
Power Supply Requirement .....	13.8 Volts D. C.
Current Drain at 13.8V .....	Receiving Squelched: does not exceed 600mA Transmitting High: 45W approx. 10.0A at VHF Low: 5W approx. 4.0A at VHF High: 35W approx. 11.0A at UHF Low: 5W approx. 4.0A at UHF
Dimension .....	150mm(W) × 50mm(H) × 173mm(D) (5-7/8") × (2") × (6-7/8")
Weight .....	Approx. 1.6Kgs. (3.74 Lbs.)

### ● Transmitter

Output Power .....	High: Approx. 45 Watts at VHF, Approx. 35 Watts at UHF Low: Approx. 5 Watts at both bands
Emission Mode .....	F3 (FM)
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 at 144–147.995MHz : ±5MHz from receive frequency at 440–449.995MHz
DTMF Encoder.....	Built in (DR-570T)

### ● Receiver

Receiving System .....	Superheterodyne, dual Conversion
Modulation acceptance .....	F3 (FM)
Intermediate Frequency .....	1st 10.7MHz 2nd 455KHz at VHF 1st 30.825MHz 2nd 455KHz at UHF
Sensitivity .....	12dB SINAD – 16dBμ
Selectivity .....	More than ±6KHz at –6dB Less than ±12KHz at –60dB
Audio Power Output .....	More than 2.0±0.5W
Speaker Impedance .....	8 Ohms

### ■ Accessories supplied as standard:

- Hand Microphone (Condenser type)
  - a. 16 button DTMF Microphone (DR-570T)
  - b. Hand Microphone (DR-570E)
- Mobile Mounting Bracket
- Mounting Hardware
- D.C. Power Cable



DR-570T



DR-570E

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

Authorized Dealer:



## ALINCO ELECTRONICS INC.

Head Office: "TWIN 21" MID Tower Building 23F  
1-61, 2-Chome, Shiromi, Chuo-ku, Osaka No.540, Japan  
Phone: 06-946-8150 Fax: 06-946-8175

U.S.A.: ALINCO ELECTRONICS INC.  
438 Amapola Ave., Unit 130, Torrance, CA 90501, U.S.A.  
Phone: 310-618-8616 Fax: 310-618-8758

Germany: ALINCO ELECTRONICS GMBH  
Berner Strasse 51, 6000 Frankfurt/M.50, Germany  
Phone: 069-5076064 Fax: 069-5076650