

ALINCO

DJ-580T (U.S. Version)

DJ-580E (European Version)

**VHF/UHF FM TWINBAND
HANDHELD TRANSCEIVER**



DJ-580T/E

A A super-compact handheld, the tiny DJ-580T/E is a powerful, feature-packed twin bander. This super-compact HT is the smallest you'll find, and literally fits in the palm of your hand. Ergonomic design, combined with excellent sensitivity and unbelievable great sound, sets a new standard for miniature HT's.

FEATURES

MCF (Memory Channel Free Set) Function

The DJ-580T/E has 40 memory channels. MCF allows the user the flexibility to Inter-Mix any (or all) of the memory channels in either the VHF or UHF band. You can set any memory channel combination as you like.

Super Low Battery Consumption Function (Alinco Patent Pending)

If the battery is depleted to less than 5 volts, Alinco's Patented Super Low Battery Consumption Function is automatically activated. Though the output power and sensitivity decreases, you can operate the DJ-580T/E until the power level drops below 3.8 volts.

* This feature is available with dry cell batteries only.

Full Duplex and Dual Watch Function

The DJ-580T/E can receive both UHF & VHF at the same time. And also is capable of receiving on one band while transmitting on the other.

Independent VHF and UHF Controls

VHF & UHF have separate control knobs for volume and squelch. The LCD displays both bands simultaneously.

DSQ (DTMF Squelch) Function

The DTMF code squelch and paging functions (DSQ) are standard with the DJ-580T/E.

* DSQ Paging allows the DJ-580T/E quit waiting until a transmission from a station with the proper programmed DSQ code is received. Moreover, DSQ Paging in combination with a standard Tone Squelch (CTCSS) works as a powerful individual calling function.

* DSQ Group Calling and Individual Calling

- 1) Group Calling — for calling entire groups.
- 2) Private Calling — for calling one group member, or a single individual (non-group member).

* Compatibility with other manufacturer's units with similar paging features.

Trans-Message Function

This functions allows the user to send and receive DTMF two digit messages to/from other similarly equipped units.

Scanning Features (8 Scanning Modes)

The DJ-580T/E has four distinct scanning operations. Each can be programmed for Busy Scan (stop and wait on the first detected busy frequency), and Time Scan (stop for 5 seconds on the first detected busy frequency). Together this gives the DJ-580T/E a full Eight Scanning Modes.

Memory Channels

Each Memory Channel can store any sub-audible tone and odd offset (0 — 15.995MHz) with + or - offset direction.

Tone Squelch is standard with the DJ-580T (optional accessory for DJ-580E).

Cross Band Repeater Function Capability (Modification Required).

Frequency Selection (3 Methods)

- 1) Direct input from (16 Key) Touch Tone Pad
- 2) Selection with the Main Dial Knob
- 3) Selection with the Up/Down Keys

Bell Function

This function is activated with the DSQ Paging features.

Other Functions and Features

- * Automatic Dialer Function
- * 3 Power Level Selections
- * Battery Saving Function
- * Automatic Power Off Function
- * Illuminated Key Pad
- * Single/Twin Band Selectibility
- * DSQ wild card feature
- * Optional Remote Control Mic, and other available accessories.

FEATURE IDENTIFICATIONS

TOP VIEW

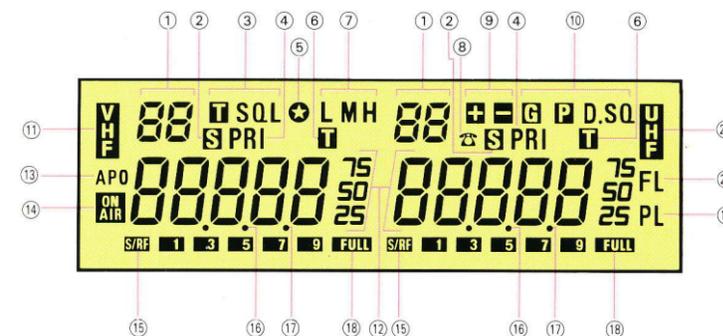
- ① Antenna Connector
- ② VHF Volume Control
- ③ VHF Squelch Control
- ④ ON/OFF, UHF Volume Control
- ⑤ UHF Squelch Control
- ⑥ Rotary Dial Encoder
- ⑦ Microphone Jack
- ⑧ Speaker/Earphone Jack
- ⑨ V/U Speaker Jack

FRONT, BACK, and SIDE VIEW

- ⑩ Function Key
- ⑪ PTT Key (2 places)
- ⑫ Lamp Key
- ⑬ Monitor Key
- ⑭ Battery Release
- ⑮ LCD
- ⑯ Key Board
- ⑰ Microphone
- ⑱ Speaker
- ⑲ Outside Power source

LCD PANEL

- ① Memory No.
- ② Battery Save
- ③ Tone Encoder/Tone Squelch
- ④ Priority/Dual Watch
- ⑤ Split
- ⑥ Timed Scan
- ⑦ TX Out-put Power
- ⑧ Dial
- ⑨ + - Shift
- ⑩ DSQ/Pager
- ⑪ VHF Main Band
- ⑫ Frequency
- ⑬ Automatic Power Off
- ⑭ On Air
- ⑮ S/RF
- ⑯ Frequency Decimal Point
- ⑰ Tone Frequency Decimal Point
- ⑱ S/RF Meter
- ⑲ PTT Lock
- ⑳ Frequency Lock
- ㉑ UHF Main Band



SPECIFICATIONS

DJ-580T/E

General

Frequency Coverage

	(TX)	(RX)
VHF	144.000 — 147.995MHz 144.000 — 145.995MHz	130.000 — 173.995MHz (U.S. Version) 144.000 — 145.995MHz (European Version)
UHF	440.000 — 449.995MHz 430.000 — 439.995MHz	420.000 — 479.995MHz (U.S. Version) 430.000 — 439.995MHz (European Version)

Frequency Resolution

5, 10, 12.5, 20 and 25kHz steps

Memory Channels

42 channels (total 40ch for VHF/UHF, 2 ch Call for VHF/UHF)

Signal Type

F3E (FM)

Microphone Input Impedance

2K ohm nominal

Speaker Impedance

8 ohm

Antenna Impedance

50 ohm

Dimension

140(H) × 58(W) × 33(D)mm

(with 6pcs. × 3A Dry Cell Battery Case or Standard Ni-Cd Battery Pack EBP-20N)

410g

Weight

Transmitter

Output Power

with EBP-20N (standard for T and E)

High	Middle	Low
approx. 2.0W/VHF approx. 1.5W/UHF	1.0W	0.3W

with EBP-22N (Optional Ni-Cd Battery Pack)

High	Middle	Low
approx. 5.0W/VHF & UHF	1.0W	0.3W

Note: The battery charger for both EBP-20N and EBP-22N is EDC-24 (A.C. 220/240V) and EDC-25 (A.C. 120V). T and E Version includes the battery charger.

Modulation System

Variable Reactance Frequency Modulation

Max. Freq. Deviation

± 5kHz

Spurious Emission

Better than -60dB below carrier level

RECEIVER

Receiving System

Double-Conversion Superheterodyne

Sensitivity

12dB SINAD less than -15dB μ

Intermediate Freq.

VHF: 1st. IF 55.05MHz 2nd. IF 455kHz
UHF: 1st. IF 23.05MHz 2nd. IF 455kHz

EDN-6

* Specification are subject to change without notice due to developments in technology.

OPTIONAL ACCESSORIES



EDC-24 (117V)
EDC-25 (220/240V)
Ni-Cd AC Battery charger



EDC-34 (117V)
EDC-35 (220/240V)
AC/DC Quick Ni-Cd
Battery charger



EDC-36
Mobile DC Power Cable
with Active Noise Filter



EDC-43
Mobile DC Power Cable



EDC-37
Cable for Power Supply
at 13.8V



EJ-12U
Tone Squelch Unit



EMS-22
Speaker Microphone



EMS-8
Remote Control Speaker
Microphone



EME-11
Earphone Microphone
with PTT/VOX



EME-10K
Headset including Orange
Pad with VOX/PTT



EME-6
Earphone



EME-4
Earphone Microphone



EBP-20N
Ni-Cd Battery Pack
7.2V 700mAH



EBP-22N
Ni-Cd Battery Pack
12V 600mAH



ESC-17
Leatherette Case



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