

# ALINCO

**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION



Handheld Transceiver

VHF DJ-D17MkII

UHF DJ-D47MkII

## The Cost-effective Digital Migration Solution.



- Up to 16 hours of operating time with standard battery.
- Improved call capacity with DMO 2-slots in Direct mode.
- Programmable up to 1024ch in 248ch per Zone.
- Meets IP68 and MIL-STD810C-G.
- Stun/Kill/Revive, Emergency call, mandown, VOX, Vibration, Dual-slot trunking and more!

### Digital-Analog Dual mode

Smooth migration from analog to DMR 2-slot Tier II digital

### 1.8" Graphic Dot-matrix True Color Display

A large, full color, 5-line display

### Transmit Interrupt

The priority signal request programmable

### Real-time GPS Localization

Integrated GPS enables the real time tracking

### Versatile Voice Calls & Data Services

Supports Private, Group, All and Emergency calls in voice, in addition to data services such as GPS and Text messages

### Advanced Encryptions of Voice and Data

Enhanced ARC 40-bit digital encryption/DES/ 256 bits AES encryption and scrambled analog call features

### Multiple Analog Signaling Modes

Supports MDC1200, DTMF, 2- and 5-Tone signaling



### Military Standards 810

	810C		810D		810E		810F		810G	
Applicable MIL-STD	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I,II	501.2	I/ A1,II/ A1	501.3	I/ A1,II/ A1	501.4	I/Hot ,II/Hot	501.5	I/Hot A1,II/Hot (A1)
Low Temperature	502.1	I	502.2	I/C3,II/C1	502.3	I/C3,II/C1	502.4	I/C3,II/C1	502.5	I/C3,II/C1
Temperature Shock	503.1	-	503.2	I/A1C3	503.3	I/C1A3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I
Rain	506.1	I,II	506.2	I,II	506.3	I,II	506.4	I,III	506.5	I,III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F,CURVE-W	514.3	I/10,II/3	514.4	I/10,II/3	514.5	I/24	514.6	I/24
Shock	516.2	I,II	516.3	I,IV	516.4	I,IV	516.5	I,IV	516.6	I,IV

# Specifications

## General

## Handhelds

Frequency Range	VHF 136~174MHz, UHF 400~470MHz
Channel Capacity / Zone Capacity	1024 / 248
Channel Spacing	12.5KHz / 20KHz / 25KHz
Operating Voltage	7.5V DC±20% (2000mAh Li-ion)
Dimension (approx. W x H x D)	131.5mm x 63.5mm x 35.5mm
Weight (approx.)	385 g Ant. & Battery incld.

## Transmitter

## Handhelds

Frequency Stability	±0.5ppm
Power Output	1W/4W(UHF), 1W/5W(VHF)
Modulation Limiting	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz
FM Hum and Noise	-40dB@12.5kHz, -45dB@20/25kHz
Conducted/Radiated Emission	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	-60dB@12.5kHz, -70dB@20/25kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FXD, 12.5kHz Voice: 7K60F1E&7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W
Analog Modulation	11K0F3E@12.5kHz, 14K0F3E @20kHz, 16K0F3E@25kHz
Digital Protocol / Vocoder	ETSI TS102361-1, -2, -3, -4 / AMBE+2™

## Receiver

## Handhelds

Frequency Stability	±0.5ppm
Analog / Digital Sensitivity	0.3 μV/(12dB SINAD) / 0.22 μV/BER5%
Intermodulation	TIA603C:70dB ETSI:65dB
Adjacent Channel Selectivity (ETSI)	60dB@12.5kHz, 70dB@20/25kHz
Spurious Response Rejection	TIA603C : 70dB, ETSI : 70dB
Audio output (Distortion 3% typ.)	approx.1W
Hum and Noise	40dB@12.5kHz, 45dB@20/25kHz
Audio Response /Audio Distortion	+1 ~ -3dB/≤ 3% (typical)
Conducted Spurious Emission	-57dBm@<1GHz, -47dBm@>1GHz

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Authorized Dealer:

## Standard Accessories



Battery Pack	Battery Charger	AC Adapter
<b>EBP-109</b> Li-ion 7.4V 2000mAh	<b>EDC-329</b>	<b>EDC-332</b> (220V)
Whip antenna	Belt Clip	
<b>EA-262</b> (VHF) or <b>EA-263</b> (UHF)	<b>EBC-53</b>	

Standard accessories declared herein are our factory default and may vary at moment of sales depending on the market and Dealers' sales policy.

## Options

- PC interface cable ERW-25  
Available exclusively to dealers.
- Earphone microphone EME-85
- Battery pack EBP-116  
Li-ion 7.4V  
2500mAh
- Plain speaker microphone EMS-91

## GPS

Accuracy specs are for long-term tracking (95th percentile values >5 satellites visible at normal -130dbm signal strength.)

TIFF Cold start (Time to First Fix)  
<60 sec.

TIFF hot start (Time to First Fix)  
<10 sec.

Horizontal Accuracy  
<5meters mobiles, <5m Handhelds

## Environmental Specifications

Operating Temperature -30°C ~ +60°C

Storage Temperature -45°C ~ +85°C

ESD IEC 61000-4-2

Ingress protection IP68

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\* Projections are not included in the declared dimension values.

\* Operator license may be required. Please consult your dealer for details.

## ALINCO, INC. Electronics Division

Yodoyabashi Dai-Bldg 13F, 4-4-9 Koraibashi,  
Chuo-ku, Osaka 541-0043 Japan  
Phone: +81-6-7636-2362 Fax: +86-6-6208-3802  
http://www.ALINCO.com  
E-mail: export@alinco.co.jp



Please be sure to read the instruction manual before using the product for your safety.

