

ALINCO
Quality. Style. Performance!

Intrinsically Safe DMR Handheld Transceivers

VHF

DJ-DGX15

UHF

DJ-DGX45



**Reliable Communication,
Even in Hazardous Areas.**



The ALINCO DJ-DGX15/45 is an intrinsically safe DMR radio certified for use in explosive atmospheres. Supporting wideband VHF/UHF frequencies in DMR digital and analog FM modes, it is ideal for use in factories, oil & gas facilities and chemical plants. With crystal-clear digital audio, enhanced spectrum efficiency, and a rugged, durable design, it ensures reliable communication, safety, and operational efficiency in the most demanding environments.

DJ-DGX15 (VHF)

DJ-DGX45 (UHF)



ALINCO

- DMR Tier I and Tier II
- RF output selectable from <3.5W / 0.5W
- Programmable up to 256 ch in 16ch/zone
- IP67 Dust & Splash proof
- ATEX Compliance Statement :
 - I M2 Ex ib I Mb – Mining
 - II 2G Ex ib IIB T4 Gb – Gas and a maximum surface temperature of T4.
 - II 2D Ex ib IIIC T130°C Db – Dust and a maximum surface temperature of 130°C.
- Built-in GPS: Equipped with integrated GPS for location-based functionality
- Man Down Alert: Automatically sends alerts when a fall is detected
- Work Alone Safety: Supports lone workers with emergency alerts features
- Built-in APRS: Allows for live position and telemetry reporting
- Advanced Noise Reduction: Suppresses ambient noise to ensure clear and reliable audio
- Improved call capacity with DMO 2-slots in Direct Mode
- AES256 and ARC4 Encryption supported
- Variety of security features including Radio check, Call alert, Stun/Revive/ Kill & Remote monitor
- Voice guidances in English

Options



- Earphone microphone EME-94

Standard Accessories

■ Use specified accessories only for intrinsically-safe operation.

Battery Pack	Battery Charger	AC Adapter	Whip antenna	Belt Clip	USB Cable
EBP-122 Li-ion 7.4V 3400mAh	EDC-349	EDC-350 (220V)	EA-329 (VHF) or EA-333 (UHF)	EBC-73	EDS-53

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

Specifications

General

Output Power	<3.5W / 0.5W
Frequency Coverage	VHF : 136-174MHz UHF : 400-470MHz LF : 446-446.2MHz
Channel Capacity	VHF/UHF : 256 CHs LF: 16 CHs
Bandwidth	12.5KHz / 25KHz(Analog), 12.5KHz (DMR)
Operating Voltage	DC 7.4V ±20%
Frequency Stability	±1.5ppm
Operating Temperature	−30°C~+60°C
Size (mm)	142 x 60 x 48mm
Weight (g)	308g (with battery pack)
Battery Capacity	3400mAh Li-Ion Intrinsically Safe Battery Pack
Gas Rating	II 2G Ex ib IIB T4 Gb (ATEX)
Dust Rating	II 2D Ex ib IIIC T 130 degree C Db (ATEX)
Mining Rating	I M2 Ex ib I Mb (ATEX)

Transmitter

Power Output	VHF/UHF : <3.5W License Free : 0.5W
Analog Modulation	16K0F3E(Wide)/ 11K0F3E(Narrow)
Digital Modulation	7K60FXD (Data only), 7K60FXW (data and voice)
Adjacent Channel Power	≥ 70dB(Wide), ≥ 60dB(Narrow)
Spurious Emission	≤−36dB (<1GHz), ≤−30dB (>1GHz)
Audio Distortion	≤3%
Audio Power	≤2W

Receiver

Analog Sensitivity (12dB sinad)	≤ 0.22μV @ 12dB SINAD
Digital Sensitivity (BER)	≤0.22uV/-120dBm (BER 5%)
Inter-modulation	≥ 60dB
Spurious Rejection	≥ 70dB(Wide), ≥ 60dB (Narrow)
Adjacent Channel Selectivity	≥ 65dB (Wide), ≥ 60dB (Narrow)

Environmental Specifications

Temperature Shock / Humidity / Vibration	MIL STD 810C, D, E, F, G, H
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Authorized Dealer:



Caution

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

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FNFNFINJ-PE
Ver.1.0 DJDGX15/45
Printed in Japan