

Intrinsically Safe DMR Handheld Transceivers UHF DJ-DGX45

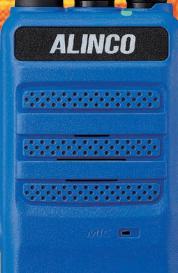








# Reliable Communication, Even in Hazardous Areas.



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.

## Intrinsically Safe DMR Handheld Transceivers DJ-DGX15 (VHF) DJ-DGX45 (UHF)











- DMR Tier I and Tier II
- RF output selectable from <3.5W / 0.5W</p>
- 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** 

### **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	$\geq$ 70dB(Wide), $\geq$ 60dB(Narrow)		
Spurious Emission	≤-36dB (<1GHz), ≤-30dB (>1GHz)		
Audio Distortion	≤3%		
Audio Power	≤2W		

#### Receiver .

Teccerver —		
Analog Sensitivity (12dB sinad	ivity (12dB sinad) $\leq 0.22 \mu V$ @ 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

#### **Standard Accessories** Use specified accessories only for intrinsically-safe operation.

Battery P	ack Battery Charger	AC Adapter	Whip antenna	Belt Clip	USB Cable
<b>EBP-1</b> Li-ion 7, 3400m/	4V <b>EDC-349</b>	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.

Authorized Dealer:

Copyright Alinco, Inc., Osaka, Japan, All rights reserved, Although Alinco has designed this brochure to be as accurate and comprehensive as possible, we reserve the right to make changes at any time to our equipment line, optional accessories, specifications, standard accessories, or availability of any such devices we manufacture and distribute. Please note that certain products and accessories may not be available in all countries of distribution therefore consult your Authorized Alinco Dealer for product availability and pricing. Colors of images herein may appear slightly different from actual products due to print. The manufacturer will not release the software to unauthorized party so please contact you dealer for details. This product may be delivered to consumers after being preprogrammed with the operating parameters, then certain operation may be disabled for user-accesses.



Alinco Incorporated **Electronics Division** 

Yodoyabashi Dai-Bldg 13F, 4-4-9 Koraibashi,