

# ALINCO

Quality. Style. Performance!

VHF FM HANDHELD TRANSCEIVER

# DJ-W100



## A TINY RADIO THAT IS PACKED WITH POWERFUL FEATURES!

This new VHF Full-feature handheld transceiver packs a lot of performance into a MIL-spec\* rugged polycarbonate body. Designed to resist splash and dust\*, the DJ-W100 features professional grade specs such as 1W audio output, 2.5ppm frequency stability, capable of operating 136-174MHz range at 5W in 200 programmable-channels or VFO\*;

Keep in touch for retails, construction, factory, warehouse, in a theme-park, shopping mall, exhibition hall, hotel, park/mountain rangers and surveillance...where you need solid communications for business, the DJ-W100 is a reliable, cost effective alternative to a mobile/cell phone!



\*MIL-STD-810G shock/vibration compliant  
\*IP54 Dust & Splash-proof compatible  
\*VFO(frequency) mode may not be available due to regulation. Please consult with your dealer before purchase.



# DJ-W100



Cellular frequencies blocked.



# ALINCO

INCORPORATED

## Features

- IP54 dust-protection and splash-proof
- Plenty of operating time, over 12 Hours with standard 1700 mAh Li-Ion battery pack

(TX1:RX1:St-by90 / EBP-88 lasts longer / varies depending on conditions of use)

- Comes with a quick stand-charger that fill-up the empty battery in 4 hours
- Wide variety of selective calling features built-in; The 2-Tone, 5-Tone, 50 CTCSS, 114 DCS, 4 Tone-burst tones and DTMF/ANI decode
- Radio stun/kill/revive functions to protect your communication security
- Large, bright Alphanumeric Name tag LCD and easy-to-operate backlit keys
- Loud, enhanced audio quality with audio compander
- Analog voice scrambler and VOX built-in
- 200 programmable channels
- 3 selectable output power 5/2/0.5W
- FM broadcasting receiver
- FSK short-message, BCLO, DTMF Autodialer, Reverse, Talk-around, TOT functions and much more!

## Standard Accessories (A strap is included)

| Whip antenna | Battery Pack                     | Rapid Charger Stand |
|--------------|----------------------------------|---------------------|
| EA-211       | EBP-88<br>Li-ion<br>7.4V 1700mAh | EDC-189             |

| AC Adapter | Belt Clip |
|------------|-----------|
| EDC-190E   | EBC-34    |

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



The AC adapter shown here is EDC-190E.

Shown with standard accessories



shown with EBP-87

## Specifications

| General               |   |
|-----------------------|---|
| Frequency Range       | TX/RX : 136.000-173.9975MHz<br>RX only : FM radio (76-108MHz)     |
| Channel Capacity      | 200 channels  |
| Channel Spacing       | 25KHz (Wide Band)<br>20KHz (Middle Band)<br>12.5KHz (Narrow Band) |
| Phase-locked Step     | 5kHz, 6.25KHz   |
| Operating Voltage     | 7.4V DC ±20%  |
| Battery Life          | More than 12Hours (1700mAh)<br>by 5-5-90 work cycle               |
| Frequency Stability   | ±2.5ppm   |
| Operating Temperature | -20~+50°C   |
| Weight                | 210g (with battery pack, antenna)                                 |
| Dimension             | 270×56×30mm (with battery pack, antenna)                          |

| Receiver (ETSI EN300 086 standard test) |                    |                       |
|---|--------------------|-----------------------|
|   | Wide band          | Narrow band           |
| Sensitivity (12dB SINAD)                | ≤ 0.25μV           | ≤ 0.35μV              |
| Adjacent Channel Selectivity            | ≥ 70dB             | ≥ 60dB                |
| Intermodulation                         | ≥ 65dB             | ≥ 60dB                |
| Spurious Rejection                      | ≥ 70dB             | ≥ 70dB                |
| Audio Response                          | +1~-3dB (0.3~3KHz) | +1~-3dB (0.3~2.55KHz) |
| Hum & Noise                             | ≥ 40dB             | ≥ 36dB                |
| Audio Distortion                        | ≤ 5%               |                       |
| Audio Power Output                      | 1W (10%)           |                       |

| Transmitter (ETSI EN300 086 standard test) |                    |                       |
|--|--------------------|-----------------------|
|  | Wide band          | Narrow band           |
| Power Output                               | 5/2/0.5W           |                       |
| Modulation                                 | 16KφF3E            | 11KφF3E               |
| Adjacent Channel Power                     | ≥ 70dB             | ≥ 60dB                |
| Hum & Noise                                | ≥ 40dB             | ≥ 36dB                |
| Spurious Emission                          | ≤ -36dB            | ≤ -36dB               |
| Audio Response                             | +1~-3dB (0.3~3KHz) | +1~-3dB (0.3~2.55KHz) |
| Audio Distortion                           | ≤ 5%               |                       |

- Applicable U.S. Military Specifications MIL 810F and equivalent MIL-STD-810-C, -D and -G.  
Method/Procedure: Vibration 514.5 I / Shock 516.5 I, IV
- Ingress Protection Standard
- The IP54 designation provides for limited dust and splash proofing of the radio. This compatibility is factory guaranteed for a period of one year provided all the jack covers are securely in place, any accessories connected must be genuine Alinco waterproof accessories and the radio has not been disassembled by the user. Please understand that this product has been tested to comply IP54 during engineering stages but NOT certified IP54-compliant. Warranty will not cover radios that are water damaged due to negligence or misuse of the product.
- All stated specifications are subject to change without notice or obligation.

## Options



- Earphone Microphone (EME-56A)
- Mobile DC charging cable (EDC-198)

※ Voids IP54 ingress protection when EME-56A and/or EDH-40 are in use.



- Mobile DC cable (EDH-40)



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\* Projections are not included in the declared dimension values.  
\* FCC and CE logos in this brochure mean that these products have been approved under the business-radio category of relative conformity unless otherwise specified.

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FNFNEGNE-PE  
Ver.1.0 DJW100  
Printed in Japan

