

# ALINCO

## DJ-V5

144/430MHz FM

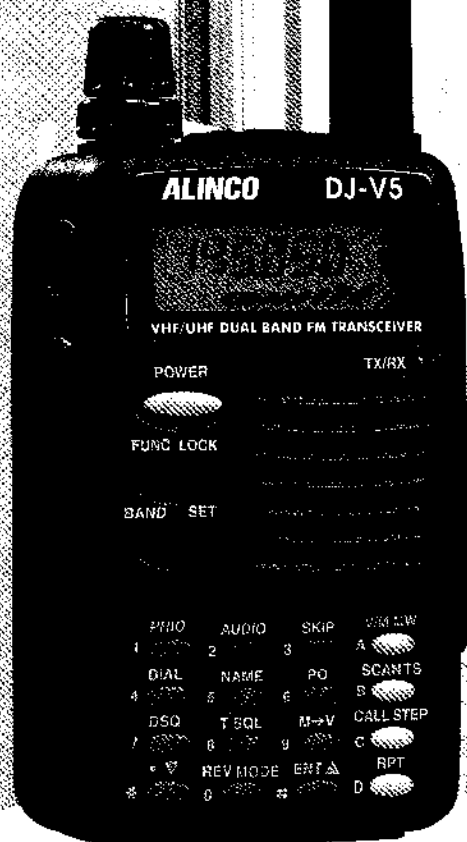
DUAL HANDY TRANSCEIVER

# Star Performer

Alinco introduces an exciting new VHF/UHF hand-transceiver that will change the way you think about communications. The new Alinco DJ-V5 can fill a variety of roles and it does them all well. Loaded with technical features, 5 watts of output power and a wide array of operator conveniences, the DJ-V5 is an attractive newcomer in a compact package.

- Alphanumeric Display, up to 6 characters
- 200 memory channels plus two VFO channels
- Full VHF + UHF Amateur Band coverage
- Expandable Receive Range, ( 76 - 299 MHz\*) includes Wide FM capability
- Up to 5 watts output, 3 output settings
- CTCSS Encode+decode, DTMF squelch and 4 different European Tone Bursts
- Accepts up to 13.8 VDC direct input
- 4 scan modes, 5 programmable scan banks
- Input voltage display with over voltage warning
- MARS/CAP capability (DJ-V5T)
- Autodial memories
- Automatic high temperature protection feature
- Standard high-power 700 mAh Ni-Cd battery pack BBP-45N
- SMA antenna connector
- Eight different tuning steps
- Wire cloning capability
- Wide choice of accessories
- Audio output control (high/low)
- Split-band operation capability (small type at bottom)

\* Cellular frequencies blocked by design



## Power Up to 5 watts output, 3 output settings

- Alphanumeric Display** Easy recall of repeaters or simplex channels, up to 6 characters.
- Wide Receive Range** Expanded receive capability delivers coverage from 76 ~ 999.995 MHz.
- Wide FM Receive** Experience quality audio when receiving wide FM signals.
- 200 Memory Channels** Plenty of memory to use any way you wish. Save band, frequency, offset, CTCSS, transmit output level, tuning step, DSQ and alphanumeric channel name.
- Enhanced Repeater Operations** CTCSS encode + decode, plus selectable tone bursts (1000, 1450, 1750, 2100 Hz).
- DTMF Tone Squelch (DSQ)** Allows creation of call groups free of distracting traffic.
- Temperature Protection** Reduces output power when internal temperatures are too high.
- Cable Cloning** Program multiple DJ-V5 units from a master unit.
- Multiple Scan Modes** Use the wide-range receive capabilities of the DJ-V5 to their full advantage.

### Specifications

| General                                | DJ-V5T                                                                                                                 | DJ-V5E                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| RX Frequency Coverage (MHz) DJ-V5T     | 76.000 - 107.995MHz (Default : 88.1MHz)<br>144.000 - 147.995MHz<br>420.000 - 449.995MHz                                | 87.50000 - 107.995MHz (Default : 87.5MHz)<br>144.000 - 145.995MHz<br>430.000 - 439.995MHz |
| TX Frequency Coverage (MHz) DJ-V5E     | 144.000 - 147.995MHz<br>420.000 - 449.995MHz                                                                           | 144.000 - 145.995MHz<br>430.000 - 439.995MHz                                              |
| Modulation                             | F2, F3E (FM), WFM (Reception)                                                                                          |                                                                                           |
| Frequency stability                    | ±5ppm (-10°C ~ +60°C) (+14°F ~ +140°F)                                                                                 |                                                                                           |
| Supply Voltage                         | Rating : 13.8V DC Connection : 4.0 - 15.0V DC                                                                          |                                                                                           |
| Ground                                 | Negative ground                                                                                                        |                                                                                           |
| Current consumption (13.8VDC, Average) | 8W output : approx. 1.5A rating output : approx. 220mA Squelch reception : approx. 70mA<br>Battery save : approx. 20mA |                                                                                           |
| Temperature range                      | -10°C ~ +60°C (+14°F ~ +140°F)                                                                                         |                                                                                           |
| Frequency Resolution                   | 5, 10, 12.5, 15, 20, 25, 50, 100 kHz steps                                                                             |                                                                                           |
| Memories                               | 200 Channels                                                                                                           |                                                                                           |
| Antenna                                | BNC connector, 50Ω unbalanced                                                                                          |                                                                                           |
| Ant. impedance                         | 50Ω                                                                                                                    |                                                                                           |
| Power Supply                           | Rating : 13.8 VDC Connection : 4.0 - 15.0VDC                                                                           |                                                                                           |
| Dimensions (WHD)                       | Approx. 58mm 97mm × 40.3 mm or 2.28 in × 3.81 in 1.58 in<br>(without projections, Battery case EDH-29 inclusive)       |                                                                                           |
| Weight                                 | Approx. 335g or 11.8 oz (Ant. Battery case, 4AA batteries inclusive)                                                   |                                                                                           |

### TRANSMITTER

|                       |                                         |
|-----------------------|-----------------------------------------|
| Output Power (Approx) | 5W/1W/0.5W 13.8V, 1.5 - 2W 6V (EBP-45N) |
| Modulation System     | Variable Reactance Frequency Modulation |
| Frequency Deviation   | ±5.0kHz (maximum)                       |
| Spurious emission     | -80dB or less                           |
| Mic. impedance        | Approx. 2kΩ                             |

### RECEIVER

|                          |                                                                                                        |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Receiver System          | Double Conversion Superheterodyne                                                                      |                                                                                                        |
| IF Frequencies           | 1st 39.15 MHz                                                                                          | 2nd FM : 450 kHz WFM : 13.35MHz                                                                        |
| Sensitivity              | 76.000 - 107.995MHz WFM : 0dBμ<br>144.000 - 147.995MHz FM : -16dBμ<br>440.000 - 449.995MHz FM : -15dBμ | 87.500 - 107.995MHz WFM : 0dBμ<br>144.000 - 147.995MHz FM : -16dBμ<br>430.000 - 439.995MHz FM : -15dBμ |
| Selectivity (except WFM) | -16dB/12kHz or over -60dB/30kHz or less                                                                |                                                                                                        |
| Spurious response        | 60dB or over                                                                                           |                                                                                                        |
| AF output                | 500mW or over (8Ω, 10% distortion factor, 13.8V)                                                       |                                                                                                        |
| AF load impedance        | 8Ω                                                                                                     |                                                                                                        |

### Accessories

|         |                                            |        |                                            |
|---------|--------------------------------------------|--------|--------------------------------------------|
| EBP-45N | 6.0V 700 mAh (standard) NiCd battery pack  | EMS-9  | speaker microphone                         |
| EBP-46N | 9.6V 700 mAh high output NiCd battery pack | EMS-47 | speaker microphone with volume control     |
| EDH-29  | Dry cell case (4 AA cells)                 | EMS-51 | miniature type speaker microphone          |
| EDC-36  | Car-lighter cable with filter              | EME-6  | headset (in-ear)                           |
| EDC-37  | Cable for external power source            | EME-12 | headset (ear hook)                         |
| EDC-43  | Car-lighter cable                          | EME-13 | headset (in-ear)                           |
| EDC-93  | A.C. wall charger, 117V                    | EME-15 | tie-pin microphone with vox                |
| EDC-94  | A.C. wall charger, 220/240V                | EME-16 | tie-pin microphone                         |
| EBC-6   | mobile bracket                             | EME-17 | tie-pin microphone                         |
| EMS-8   | speaker microphone with up/down control    | ESC-35 | soft case for use with EBP-45N/46N battery |

Specifications subject to change without notice or obligation. Specifications apply to Amateur Radio bands only. Permits required for MARS/CAP use. Product intended for use by properly licensed operators. Cellular frequencies blocked in USA version.

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