

# ALINCO

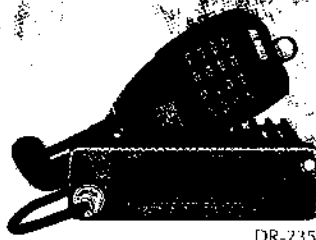
VOICE/DATA FM TRANSCEIVER

## DR-135 / DR-235 / DR-435

- 100 memory channels
- New backlit microphone(EMS-57) enables direct frequency entry from DTMF mic keypad
- Available with EJ-41U TNC installed or add optional board later
- EJ-41U TNC board operates 1200 and 9600 bps
- Front panel GPS input for APRS®
- Rear panel DSUB9 computer connection
- No need to remove mic for data operation
- Ignition key on/off feature
- CTCSS and DCS encode+decode
- H/M/L power settings
- Alphanumeric display
- Theft Alarm feature
- Wide and Narrow FM operating modes
- AM Airband Receive\*
- Stays in mode you select (voice/packet) through power off cycles
- Ten autodial memories\*



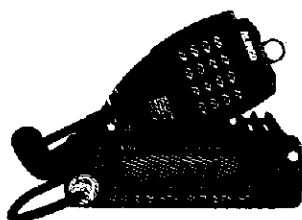
## Voice and Data in one package!



Now you can use the same transceiver for voice and data communications. Alinco's new DR-135/235/435 series of transceivers can be instantly switched from voice to data operations, without the need for complicated external terminal node controllers (TNC) or swapping connections between microphone and data unit.

For voice communications, you get excellent audio and superb transmit/receive characteristics. Easy to use with a large display and direct frequency entry from the mic keypad, Alinco's new transceivers set new standards for quality and value. Data operations come alive when you order the optional EJ-41U dual-speed internal TNC, which can work at 1200 or 9600 bps. It's ideal for simple keyboard communications, APRS® geolocation programs and more! In addition, there is a front-panel data input port for transmitting GPS data to other stations. A DSUB9 connector on the rear panel makes connection to your computer quick and easy.

APRS® is a registered trademark of Bob Bruninga, WB4APR \*Available only on USA version



DR-135

**The Alinco DR-135/235/435 series of transceivers gives you great performance and a package of features just right for your application. Available with or without the EJ-41U internal Terminal Node Controller (TNC) for data communications.**

### 100 Memories

Each with alphanumeric labeling and the ability to recall repeater offset, CTCSS or DCS setting and the mode (voice or digital).

### Key on/Key off Feature

Operate your transceiver with your car's ignition Key. No more dead batteries because you forgot to turn the radio off.

### Theft Alarm

Transceiver sounds an alert when feature is activated and a wire is removed from the unit.

### Clone Function (wire)

Copy the settings from one unit to another.

### Easy Computer /TNC Connection

Rear panel DSUB9 allows for fast computer Connection when using EJ-41U TNC. If you use an external TNC instead of the EJ-41U, you can access the radio through this port.

### Large Display

Easy to read, up to 7 characters with adjustable illumination.

### Front Panel GPS Input

Makes your GPS easy to install and remove for field use when not transmitting position data.

### OPTIONS

EJ-39D : Trunking Logic Board OMNI function

EJ-41U : TNC unit

ERW-4C : PC Programming EPROM writer

EMS-56 : Back-Lit microphone with key pad  
(Standard for T version)

EMS-53 : Simple operation microphone without  
Key pad (Standard for E version)

EMS-57 : Remote control microphone

EDC-37 : Cable for external power source

EDC-43 : Cigar-lighter cable

ADUA38 : Spare DC Power Cable

ADFM78 : Spare Underdash Bracket

### Specifications

| General                                  | DR-135                                                                                                                                                                      | DR-235                                                                                                                | DR-435                                                                                                                |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Frequency coverage                       | T/TG : TX 144~147.995MHz<br>RX 118~135.995MHz(AM)<br>136~173.995MHz<br>E/EG : TX/RX 144~145.995MHz<br>TA/TAG : TX 136~173.995MHz<br>RX 118~135.995MHz(AM)<br>136~173.995MHz | T/TG : TX 222~224.995MHz<br>RX 216~279.995MHz                                                                         | T/TG : TX 430~449.995MHz<br>RX 350~511.995MHz<br>E/EG : TX/RX 430~439.995MHz                                          |
| Mode                                     | 16K0F3E(Wide mode FM)<br>8K50F3E(Narrow mode FM)<br>(RX only A3E(AM)DR-135T/TG/TA/TAG)                                                                                      | 16K0F3E(Wide mode FM)<br>8K50F3E(Narrow mode FM)                                                                      | 16K0F3E(Wide mode FM)<br>8K50F3E(Narrow mode FM)                                                                      |
| Channel steps                            | 5,8,33,10,12,5,15,20,25,30,50kHz                                                                                                                                            | 5,8,33,10,12,5,15,20,25,30,50kHz                                                                                      | 5,8,33,10,12,5,15,20,25,30,50kHz                                                                                      |
| Memory channels                          | 100 channels+1CALL channel                                                                                                                                                  | 100 channels+1CALL channel                                                                                            | 100 channels+1CALL channel                                                                                            |
| Antenna impedance                        | 50Ω unbalanced                                                                                                                                                              | 50Ω unbalanced                                                                                                        | 50Ω unbalanced                                                                                                        |
| Frequency stability                      | ±5ppm                                                                                                                                                                       | ±5ppm                                                                                                                 | ±5ppm                                                                                                                 |
| Power supply requirement                 | 13.8V DC ±15%(negative ground)                                                                                                                                              | 13.8V DC ±15%(negative ground)                                                                                        | 13.8V DC ±15%(negative ground)                                                                                        |
| Current drain                            | Approx. 11.0A TX High<br>Approx. 0.4A Squelched                                                                                                                             | Approx. 8.0A TX High<br>Approx. 0.4A Squelched                                                                        | Approx. 10.0A TX High<br>Approx. 0.4A Squelched                                                                       |
| Usable temperature range                 | -10~+60°C(14~140°F)                                                                                                                                                         | -10~+60°C(14~140°F)                                                                                                   | -10~+60°C(14~140°F)                                                                                                   |
| Dimensions<br>(Projections not included) | 142(W)×40(H)×174(D)mm<br>5.59"(W)×1.57"(H)×6.85"(D)inches                                                                                                                   | 142(W)×40(H)×174(D)mm<br>5.59"(W)×1.57"(H)×6.85"(D)inches                                                             | 142(W)×40(H)×174(D)mm<br>5.59"(W)×1.57"(H)×6.85"(D)inches                                                             |
| Weight                                   | Approx. 1.0kg(35.27oz)                                                                                                                                                      | Approx. 1.0kg(35.27oz)                                                                                                | Approx. 1.0kg(35.27oz)                                                                                                |
| <b>Transmitter</b>                       |                                                                                                                                                                             |                                                                                                                       |                                                                                                                       |
| Output power                             | Approx. 50W High(144~148MHz)<br>More than 33W High(136~174MHz)<br>Approx. 10W Mid<br>Approx. 5W Low                                                                         | Approx. 25W High<br>Approx. 10W Mid<br>Approx. 5W Low                                                                 | Approx. 35W High<br>Approx. 10W Mid<br>Approx. 5W Low                                                                 |
| Modulation system                        | Variable reactance<br>frequency modulation                                                                                                                                  | Variable reactance<br>frequency modulation                                                                            | Variable reactance<br>frequency modulation                                                                            |
| Spurious emissions                       | Less than -60dB                                                                                                                                                             | Less than -60dB                                                                                                       | Less than -60dB                                                                                                       |
| Max.frequency deviation                  | ±5kHz(Wide mode)<br>+2.5kHz(Narrow mode)                                                                                                                                    | ±5kHz(Wide mode)<br>+2.5kHz(Narrow mode)                                                                              | ±5kHz(Wide mode)<br>±2.5kHz(Narrow mode)                                                                              |
| <b>Receiver</b>                          |                                                                                                                                                                             |                                                                                                                       |                                                                                                                       |
| Receive system                           | Double conversion superheterodyne                                                                                                                                           | Double conversion superheterodyne                                                                                     | Double conversion superheterodyne                                                                                     |
| Intermediate frequencies                 | 1st : 21.7MHz, 2nd : 450kHz                                                                                                                                                 | 1st : 30.85MHz, 2nd : 455kHz                                                                                          | 1st : 30.85MHz, 2nd : 455kHz                                                                                          |
| Sensitivity(FM)<br>(12dB SINAD)          | Less than -16.0dBμ                                                                                                                                                          | Less than -16.0dBμ                                                                                                    | Less than -16.0dBμ                                                                                                    |
| Selectivity                              | -6dB : 12kHz or more<br>-60dB : 28kHz or less(Wide mode)<br>-6dB : 6kHz or more<br>-60dB : 16kHz or less(Narrow mode)                                                       | -6dB : 12kHz or more<br>-60dB : 28kHz or less(Wide mode)<br>-6dB : 6kHz or more<br>-60dB : 16kHz or less(Narrow mode) | -6dB : 12kHz or more<br>-60dB : 28kHz or less(Wide mode)<br>-6dB : 6kHz or more<br>-60dB : 16kHz or less(Narrow mode) |
| Audio output power                       | More than 2W(at 8Ω 10% THD)                                                                                                                                                 | More than 2W(at 8Ω 10% THD)                                                                                           | More than 2W(at 8Ω 10% THD)                                                                                           |

Specifications subject to change without notice or obligation. Product intended for properly licensed operators. Permit required for MARS/CAP use.

Authorized Dealer:

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