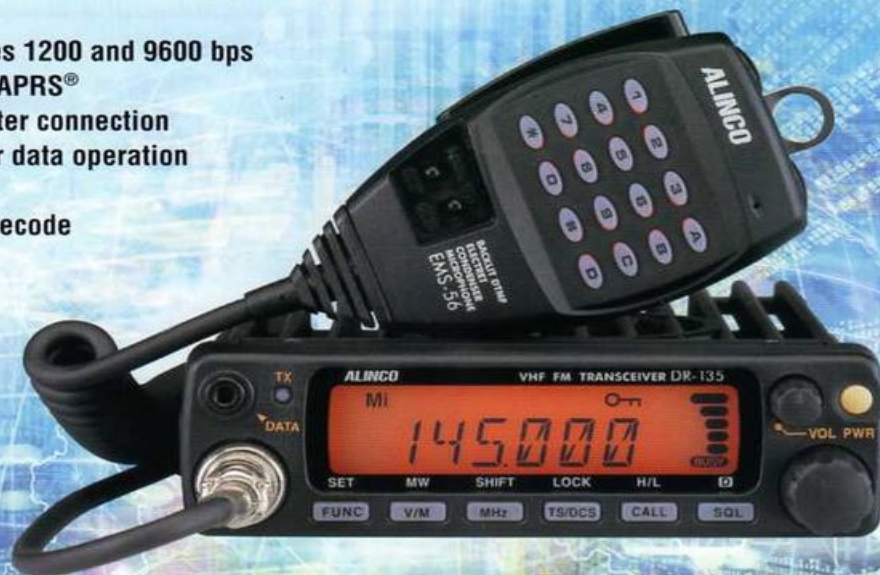


ALINCO

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.



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 RX 118~135.995MHz(AM) 136~173.995MHz E/EG : TX/RX 144~145.995MHz TA/TAG : TX 136~173.995MHz RX 118~135.995MHz(AM) 136~173.995MHz	T/TG : TX 222~224.995MHz RX 216~279.995MHz	T/TG : TX 430~449.995MHz RX 350~511.995MHz E/EG : TX/RX 430~439.995MHz
Mode	16K0F3E(Wide mode FM) 8K50F3E(Narrow mode FM) (RX only A3E(AM)DR-135T/TG/TA/TAG)	16K0F3E(Wide mode FM) 8K50F3E(Narrow mode FM)	16K0F3E(Wide mode FM) 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 Approx. 0.4A Squelched	Approx. 8.0A TX High Approx. 0.4A Squelched	Approx. 10.0A TX High 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 (Projections not included)	142(W)×40(H)×174(D)mm 5.59"(W)×1.57"(H)×6.85"(D)inches	142(W)×40(H)×174(D)mm 5.59"(W)×1.57"(H)×6.85"(D)inches	142(W)×40(H)×174(D)mm 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)
Transmitter			
Output power	Approx. 50W High(144~148MHz) More than 33W High(136~174MHz) Approx. 10W Mid Approx. 5W Low	Approx. 25W High Approx. 10W Mid Approx. 5W Low	Approx. 35W High Approx. 10W Mid Approx. 5W Low
Modulation system	Variable reactance frequency modulation	Variable reactance frequency modulation	Variable reactance frequency modulation
Spurious emissions	Less than -60dB	Less than -60dB	Less than -60dB
Max. frequency deviation	±5kHz(Wide mode) ±2.5kHz(Narrow mode)	±5kHz(Wide mode) ±2.5kHz(Narrow mode)	±5kHz(Wide mode) ±2.5kHz(Narrow mode)
Receiver			
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) (12dB SINAD)	Less than -16.0dBμ	Less than -16.0dBμ	Less than -16.0dBμ
Selectivity	-6dB : 12kHz or more -60dB : 28kHz or less(Wide mode) -6dB : 6kHz or more -60dB : 16kHz or less(Narrow mode)	-6dB : 12kHz or more -60dB : 28kHz or less(Wide mode) -6dB : 6kHz or more -60dB : 16kHz or less(Narrow mode)	-6dB : 12kHz or more -60dB : 28kHz or less(Wide mode) -6dB : 6kHz or more -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.

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