

# ALINCO

MOBILE/BASE VHF VOICE/DATA TRANSCEIVER

# DR-135 T/EMkIII

MOBILE/BASE VHF FM TRANSCEIVER

# DR-135 FX



## A VHF Legend Continues!

Time changes but a legend continues. The Alinco DR-135, famous for its combination of power, multiple functions and attractive design in a transceiver built to support voice and data communications, now enters the 3rd generation. The new DR135 MkIII and FX versions offer the same legendary high-specs as current MkII models but with the latest RoHS compliant materials for a more earth-friendly future.

As a voice transceiver, the DR-135 MkIII offers many convenient features in an attractive package, including a huge 7-character alphanumeric display, large easy-to-operate controls, 3 power settings, wide or narrow FM modes, a massive heat sink for cool, reliable operation, theft alarm feature, ignition key on/off control and much more. Packet and APRS are supported with the optional internal EJ-47U digital voice communications board. With its internal EJ-41U TNC, the DR-135 MkIII can be used for keyboard communications or geo-locating in combination with an external GPS at 1200 or 9600 bps. A DSUB9 computer connector situated on the rear panel and a convenient data port on the front panel allows easy GPS connection.

With the MkIII's basic design and features, the DR-135FX is an economy version that offers superb voice communication for commercial users (where permitted).

Take a closer look at the new DR135MkIII/FX, you will understand why it's a Legend.

### DR-135MkIII/FX

- 100 memory channels and alphanumeric channel labels
- Large 7-character alphanumeric display operates in 3 different modes (freq., CH, alphanumeric)
- CTCSS and DCS encode + decode plus 4 European tone bursts
- 50/20/5 watt power output settings
- Conventional or narrow FM modes
- Large backlit DTMF microphone (T-version)
- Multiple scan modes
- Cable clone capability
- Theft alarm feature

### DR-135MkIII

- Retains digital and TNC settings through power on/off cycles
- Front panel data port, rear panel DSUB9 computer connection
- Ignition key activated on/off feature
- TCXO for higher frequency stability
- Front panel power supply voltage display
- Packet and APRS® operation with EJ-41U internal TNC
- F1E digital voice mode with EJ-47U optional board

## Easy to operate, clean design, packed with features, superb audio and high powered!

### Convenient Scan Features

DR135MkIII/FX offers the VFO/Memory/Program scans with Busy/Timed setting and Tone scan to search for unknown CTCSS tones.

### Variety of Selective Calling Tones

The 39-tone Tone Squelch (Enc/Dec tones separately selectable), DCS, DTMF tones featuring 10 programmable memories (Auto-Dialer) and 4 tone-burst tones, all at No extra cost.

### Advanced Features

You name it, DR135MkIII/FX has it. The direct frequency input and controls of major functions through the back-lit EMS57 key-pad, 3 selectable output levels, Time-Out-Timer, Auto-Power-Off and Busy-Ch.-Lockout are all standard features for convenient operation, at home or on the road.

### Theft Alarm

Adds an extra level of security to your mobile installation.

### Ignition key on/off feature MkIII models only

Save your battery or be sure your APRS beacons have stopped. A simple connection (with optional connecting cable) is all that's needed.

### Options

- EJ-41U : TNC unit
- EJ-47U : Digital-Voice modem (where available)
- ERW-4C : PC Programming interface cable
- EMS-57 : Back-Lit microphone with key pad (Standard for T version)
- EMS-53 : Plain microphone (Standard for E/FX versions)
- EDC-37 : Key ON/OFF cable
- EDC-43 : Key ON/OFF cable for Cigar-socket
- ADUA38 : Spare DC Power Cable
- ADFM78 : Spare Bracket

## SPECIFICATIONS

General	FC CE		
	DR-135TMkIII	DR-135EMkIII	DR-135FX
Frequency range	TX:144~147.995MHz RX:118~135.995MHz(AM) 136~173.995MHz(FM)	TX/RX: 144~145.995MHz	TX/RX: 136~173.995MHz
Operating mode	16K0F3E(FM) 8K50F3E(Narrow-FM), F1D*, F2D*, F1E*		
Frequency resolution	5, 8.33, 10, 12.5, 15, 20, 25, 30, 50 kHz		
Memory channel	100channels+1 call channel		
Ant. impedance	50 Ω unbalanced		
Frequency stability	±2.5ppm		±5ppm
Microphone impedance	2k Ω		
Rated voltage	13.8V DC ±15%(11.7 to 15.8V)		
Current	Transmit	approx. 11.0A	
	Receive	approx.600mA(Max) 400mA(squelched)	
Operating temperature	-10 °C to 60 °C (14 - 140F)		
Ground	Negative ground		
Dimensions	142(W)×40(H)×188(D)mm(5.58"(W)×1.57"(H)×6.83"(D))		
Weight	Approx. 1.0kg		

\*Optional board required, DR-135MkIII models only.

### Transmitter

Power output	50W(HI) 20W(MID) approx.5W(LOW)
Modulation	Variable reactance
Spurious emission	-60dB or less
Maximum frequency deviation	±5kHz / ±2.5kHz(Narrow mode)

### Receiver

Circuitry	-14dB μ or less for 12dB SINAD
Sensitivity	Double conversion superheterodyne
Intermediate frequency	1 <sup>st</sup> 21.7MHz 2 <sup>nd</sup> 450kHz
Squelch sensitivity	-65dB(Normal) -55dB(Narrow mode)
Selectivity(-6dB)	60dB
Selectivity(-60dB)	70dB
Audio output	2.0W(8 Ω, 10%THD)

Specifications subject to change without notice or obligation.  
Performance specifications apply only to the amateur bands.  
Permit required for MARS use.  
APRS is a registered trademark of Bob Bruninga, WB4APR.  
Check regulations prior to operating in F1E digital mode.

### DR135Mk3 series / feature comparison chart

Feature	Microphone	TX frequency	RX frequency	Freq.Stability	DATA port(DSUB9)
DR-135TMkIII	EMS-57 DTMF	USA Amateur	136-174MHz + airband in AM	+/- 2.5ppm	Standard
DR-135EMkIII	EMS-53 Plain	European Amateur	European Amateur	+/- 2.5ppm	Standard
DR-135FX	EMS-53 Plain	136-174MHz	136-174MHz (No AM RX)	+/- 5ppm	N/A

Feature	TNC/Packet operation	Digital Voice Modem	Car-key ON/OFF port	LCD brightness	DC voltage display
DR-135TMkIII	Optional EJ-41U	Optional EJ-47U	Standard	Bright/Dim	Standard
DR-135EMkIII	Optional EJ-41U	Optional EJ-47U	Standard	Bright/Dim	Standard
DR-135FX	N/A	N/A	N/A	N/A	N/A

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