

ALINCO

Quality. Style. Performance!

VHF MOBILE / BASE TRANSCEIVER

DR-B185Mk II CE

DR-B185TMk II FCC

DR-B185EMk II CE



90W Max
OUTPUT!



Professional Mobile Radio with Superior Performance

The DRB185MKII is a high-performance mobile radio transceiver designed to deliver exceptional communication capabilities for professional vehicle applications. With its robust build and advanced features, this unit offers reliable communication even in the most demanding environments.

Key Features

- **Powerful Output:** Delivering up to 90W of maximum output power for extended communication range
- **Enhanced Cooling System:** Equipped with an integrated cooling fan to ensure stable performance during prolonged use
- **Advanced Noise Cancellation:** State-of-the-art noise cancellation technology that filters out background noise for crystal-clear audio transmission
- **FM Broadcast Receiver:** Built-in FM radio functionality allows users to stay connected to broadcast stations when not using the transceiver
- **Attached GPS and APRS support** keep you connected and informed—share your location and track others in real time with ease. (GPS and APRS are TMK II /EMK II amateur radio models only)



*A fan promotes
operating stability

DR-B185TMKII / DR-B185EMKII requires an amateur radio operator's license. DR-B185MKII Land Mobile (Commercial-use) is distributed by authorized dealers of specific regions and may not be available to all dealers due to difference of radio administrations.

FEATURES

- Output power selectable 90W / 30W / 10W / 5W
 - PC-programmable 200ch
 - Alphanumeric name tags
 - A New noise reduction function that reduces surrounding noise during transmissions.
 - Built-in GPS and APRS function keep you connected and informed—share your location and track others in real time with ease. (GPS and APRS are TMKII/EMKII amateur radio models only)
- *The APRS® is a trademark of Tucson Amateur Packet Radio Corp.
- Voice Comander enhances receiver's audio clarity
 - 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 LCD and easy-to-operate backlit keys
 - Multi-function, backlit microphone enables direct frequency entry & more from keypads
 - Inversion Scramble (DR-B185MkII Land Mobile Only)
 - Airband and FM radio receiver with 20 memory channels
 - Various scan modes, Key lock, Wide/Narrow operations and more at NO extra costs!
- (Airband is TMKII/EMKII amateur radio models only)



Shown with standard accessories (DR-B185MK2)

Standard accessories declared herein are DR-B185MK2 default and may vary at moment of sales depending on the market and Dealers' sales policy

Other Standard Accessory



EA-0289
GPS Antenna
(Only for TMK2/EMK2)

Spare accessories

- ADB185M2 : Mobile bracket
 ADUA107 : DC Power Cable (15A Fuse)
 EMS-74 : Backlit keypad microphone

SPECIFICATIONS

General

MIL-STD-810G-Shock: Method 514.6/IV
 -Vibration: Method 516.6/II

Frequency Range	MkII TX/RX : T/EMKII RX 136-174MHz TX : TMKII 144-148MHz/ EMKII 144-146MHz RX : T/EMKII 108-136MHz AM / 76-108MHz WFM
Number of Channels	200 channels
Channel Spacing	25KHz (Wide mode) 20KHz (Middle mode) 12.5KHz (Narrow mode)
Channel step	2.5KHz, 5KHz, 6.25KHz, 8.33KHz, 10KHz, 12.5KHz, 15KHz, 20KHz, 25KHz, 30KHz, 50KHz
Operating Voltage	13.8V DC $\pm 15\%$
Squelch	Carrier/CTCSS/DCS/5Tone/2Tone/DTMF
Frequency Stability	$\pm 1.5\text{ppm}$
Operating Temperature	-20°C ~ +60°C (-4 to +140 °F)
Dimensions	160 (W) x 43 (H) x 185 (L)mm (6.3 x 1.7 x 7.3 in) approx.
Weight	1.29kg (45.5oz) approx

Receiver

	Wide mode	Narrow mode
Sensitivity (12dB Sinad)	$\leq 0.25\mu\text{V}$	$\leq 0.35\mu\text{V}$
Adjacent Channel Selectivity	$\geq 70\text{dB}$	$\geq 60\text{dB}$
Intermodulation	$\geq 65\text{dB}$	$\geq 60\text{dB}$
Spurious Rejection	$\geq 70\text{dB}$	$\geq 60\text{dB}$
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)
Hum & Noise	$\geq 45\text{dB}$	$\geq 40\text{dB}$
Audio distortion	$\leq 5\%$	
Audio power output	$> 2\text{W}@10\%$	

Transmitter

	Wide mode	Narrow mode
Power Output	90W / 30W / 10W / 5W	
Modulation	16KΦF3E	11KΦF3E
Adjacent Channel Power	$\geq 70\text{dB}$	$\geq 60\text{dB}$
Hum & Noise	$\geq 40\text{dB}$	$\geq 36\text{dB}$
Spurious Emission	-36dB	
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)
Audio Distortion	$\leq 5\%$	

Specifications are subject to change without notice due to advancements in technology.

* Peripherals like an antenna, mounting hardware, coax cable etc are required for proper operation. In EU your power supply must comply with IEC/EN 60950-1 for base station.

ATTENTION DR-B185MkII land mobiles

- The utility software may be available to distributors/dealers only. USB programming cable is required. The manufacturer will not release the software to unauthorized party so please contact your dealer for details.
- This product may be blocked for operations before sales and only dealers can program the radio before delivery to consumers. Manufacturer is not aware of details of such dealer-programming therefore please kindly contact your dealer first in case technical-service may be necessary.

Authorized Dealer:

Although Alinco has designed this brochure to be as accurate and comprehensive as possible, we reserve the right to make changes at any time to our equipment line, optional accessories, specifications, standard accessories, or availability of any such devices we manufacture and distribute. Please note that certain products and accessories may not be available in all entities of distribution. Consult your Authorized Alinco Dealer for availability and pricing. Alinco and Alinco logos are the registered trademarks of Alinco, Inc., in Japan, USA, EU, China and other countries. Company names, brand names and product names are registered trademarks or trade names of their respective holders. The content of this document is based on information available at the time of release and may be different from the latest. Colors of images herein may appear slightly different from actual products due to print.

ALINCO Alinco Incorporated
 Electronics Division
 Yodoyabashi Dai-Bldg 13F, 4-4-9 Koraibashi,
 Chuo-ku, Osaka 541-0043 Japan
 Phone: +81-6-7636-2362 / E-mail: export@alinco.co.jp
<https://ALINCO.com>