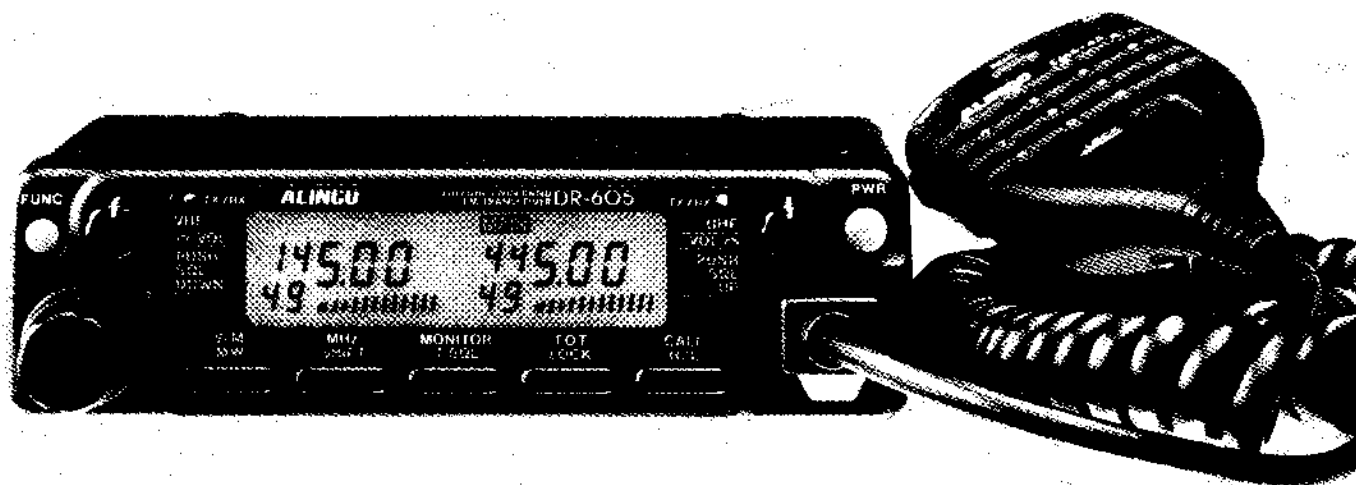


# VHF / UHF MOBILE TRANSCEIVER (DR-605)

100 MEMORIES 9600 bps CROSS-BAND-MEMORY CLONING TONE SCAN

## ALINCO DR-605

RADIO 33 - FS UL3  
8 AV. R. DORGELES  
33700 MERIGNAC  
56 97 35 34



The DR-605 is a no-nonsense twin-band mobile transceiver that delivers power and performance with user-friendly features. The command keys are simply laid out to enable intuitive operation. Access your local repeaters / digipeaters on 2 meters and 70 cms for multiple coverage with the new DR-605.

**100 Memory Channels (+ CALL Channels)** Each channel stores frequency, offset, Tone Encoder, Tone Decoder (optional), and Scan-skip.

**Ready for 9600 bps Packet** The 9600 bps input / output jack is on the rear panel so you don't have to modify the radio to operate high-speed packet.

**Cross-band Memory** Enjoy full-duplex delight with the cross-band memory feature. In a VHF memory channel you can program VHF-RX / UHF-TX, and in a UHF memory channel UHF-RX / VHF-TX.

**Tone Search Function** The tone-scanning searches for a specific CTCSS tone in a received signal. (EJ-24U required)

**Cable-Cloning Feature** Memory data can be transferred to another DR-605 through a cloning cable.

**Simple Operation with lots of power** Spending hours studying the manual is not our style. Get on the air and start working!

**Multi-National-Tone-Bursts** The DR-605 comes equipped with three different tone bursts: 1750 Hz, 2100 Hz, and 1450 Hz. Your travelling in Europe including the Eastern Bloc is now more enjoyable with more tone frequencies.

**Channel Indication Mode** If you prefer channel numbers instead of frequencies, you can have it. Both the VHF and UHF channels can be "channelized"; a great way to make your operation efficient.

**Yet more features** Crossband repeater, extended receiver range\*, independent VHF / UHF TX / RX LED's Scan, Time-out-timer, Large display and control buttons, modular jack microphone all come as standard. (\* U.S. Version only)

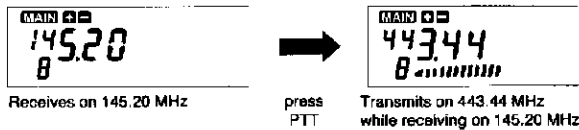
**Commercial versions** The non-amateur, commercial versions TE1 / TE2 are available and can adopt the optional EJ-21X full-duplex trunking logic-board.

ALINCO: NOW YOU'RE TALKING!

## Cross Band Memory

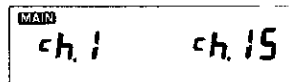
The icons are displayed for a memory channel with cross-band information.

Example: Ch. 8 is programmed for cross-band



## Channel Display Mode

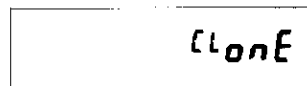
Memory channel numbers on VHF and UHF bands can be displayed instead of frequencies.



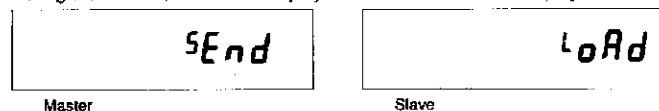
## Cloning

The CLONING mode allows you to transfer data from a preprogrammed DR-605 (master) to an unprogrammed DR-605 (slave) through a cable.

To enter the cloning mode, hold the V/M and MONITOR keys down, and turn the power on. The LCD displays "cLonE" on both transceivers.



Press PTT to start transferring data. During the transfer, the master displays "SEnd" and the slave displays "LoAd".



Upon successful transfer "PASS" is displayed on the master and slave. Press any key and the display shows "cLonE" being ready for the next slave radio.



## Tone Search

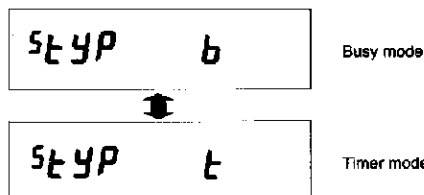
This function searches for a specific CTCSS tone in a received signal.



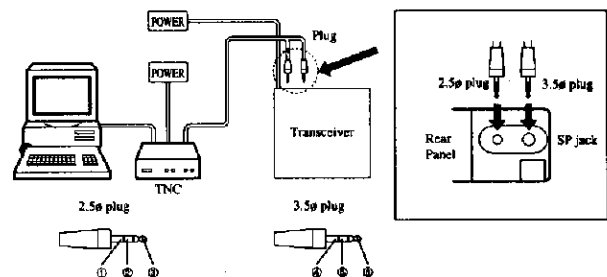
## Setting Channel Scan Type

The scanning resume condition is selectable from these two modes:

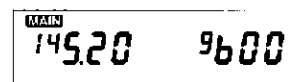
- Timer mode.... Scanning resumes five seconds after pausing, or when the signal disappears for two seconds or more.
- Busy mode..... Scanning pauses while a signal is being received, and resumes 2 seconds after the signal disappears.



## 9600 bps Packet Operation



- ① DE (GND for transmission data)
- ② PR9600 (9600 bps data output) Outputs FM signal detector (output level: 300 mVp-p/47 k)
- ③ TXD (Transmission data input) Connects to the TNC MIC output
- ④ GND for PTT
- ⑤ PTT (PTT output, "L" transmission) Connects to the PTT output
- ⑥ NC



While holding the FUNC key down, press the VHF knob.

- "9600" is shown and modulation input port is changed from microphone to the rear jack. (The main-band display shows the reception frequency.)

\*Plugs not included with the radio.

## Specifications

Spec. / Model		DR-605T		DR-605E	
General					
Freq. range *	VHF	TX: 144.000 to 147.995 MHz RX: 136.000 to 173.995 MHz		144.000 to 145.995 MHz 144.000 to 145.995 MHz	
	UHF	TX: 430.000 to 449.995 MHz RX: 420.000 to 470.000 MHz		430.000 to 439.995 MHz 430.000 to 439.995 MHz	
Modulation		F3E (FM)			
Ant.		50 $\Omega$			
Supply voltage		13.8V DC			
Ground		Negative			
Current consumption	VHF TX	50 W: 11.5 A max.			
	UHF TX	35 W: 10.0 A max.			
	RX	1.2 A max.			
Freq. stability		$\pm 10$ ppm max.			
Dimensions		140(W) $\times$ 40(H) $\times$ 170(D) mm			
Weight		1.1 kg			
Transmitter					
Output	VHF	H: 50 W* L: approx. 5 W			
	UHF	H: 35 W L: approx. 5 W			
Modulator		Reactance mod.			
Spurious		-60 dB max.			
Max. deviation		$\pm 5$ kHz			
Mod. distortion (@80% mod.)		3% max. (300 to 3000 Hz)			
Mic. impedance		2 k $\Omega$			
Receiver					
RX system		Double superhet.			
I.F.		VHF: 21.7 MHz / 450 kHz UHF: 30.85 MHz / 455 kHz			
Sens. (12 dB SINAD)		-16 dB $\mu$ (0.16 $\mu$ V) or less			
Selectivity		5 dB: 12 kHz min. - 60 dB: 28 kHz max.			
Squelch sens.		-20 dB $\mu$ (0.1 $\mu$ V) or less			
AF output (@5% distortion)		2 W or more (8 $\Omega$ load)			
AF output impedance		8 $\Omega$			

Specifications are subject to change without notice or obligation.

Specifications are guaranteed in the amateur band only.

\*Commercial version { TE1 covers 136 - 174 MHz / 400 - 420 MHz (output 35 W V/U)  
TE2 covers 136 - 174 MHz / 450 - 470 MHz (output 35 W V/U)

## Options

- EJ-24U CTCSS Tone Decoder Unit
- EMS-45 DTMF Microphone (option for DR-605E)
- UA0038 Spare DC Power Cable
- MB-130 Spare Underdash Bracket
- EJ-21X Full-duplex trunking logic board (for commercial version)

Names of products mentioned in this catalog are used for identification purposes only and may be trade mark and/or registered trademarks of their respective company. Note: All values approximate.

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