

# ICOM UHF Mobiles

## 2 or 12 Channels... both Remotable!



Now ICOM offers the fully synthesized IC-435 UHF mobile in both 2 and 12 channel versions. The IC-435 may be dash-mounted, or the front control panel may be unplugged and remote-mounted using the CK-11 Remote Kit.

#### Quality

ICOM's reputation rests with its quality designs and workmanship.

Constructed of the finest materials, the IC-435 series meets the mechanical demands of rugged service and significantly exceeds the electrical performance criteria for commercial service.

#### Remoting Unit

The IC-435 series is extremely compact [50(H) x 170(W) x 260(D)mm].

The optional CK-11 remoting kit makes a super trim 54mm deep mountable control head and a 5 meter cable allows trunk or rear vehicle storage of the IC-435T/R unit.

#### Performance

ICOM receiver section is second to none and can give good reception even in those fringe areas where other units can't. Its die-cast aluminum heatsink allows the transmitter to run at a continuous (100% duty cycle) 35 watts output.

#### Features

Important features include remote-ability, 450 - 470MHz coverage in two 10MHz frequency ranges, auto revert to channel 1 (12-channel only), LED channel readout, advanced preset squelch and a noise-cancelling microphone.

#### Options

A wide variety of plug-in tone signalling options are available for the IC-435 series. They include the UT-10 two-channel sub-audible decoder/encoder, UT-14 12-channel sub-audible decoder/decoder, UT-11 2805 decoder, and UT-12 two-tone sequential or DTMF decoder.

#### See the IC-435

2-channel and 12-channel mobiles at your local ICOM dealer.

*(Specifications on reverse side)*

HF/VHF/UHF AMATEUR AND BUSINESS USE COMMUNICATION EQUIPMENT



**ICOM**

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# IC-435 Mobile Transceiver

The IC-435 two and 12-channel mobile transceivers utilize ICOM's state-of-the-art technology and design in providing a self-contained, compact transceiver for convenient under-the-dash mounting. The easy-to-use IC-435 comes standard with mobile mounting bracket, noise-cancelling microphone, external loudspeaker and fused power cord.

## SPECIFICATIONS

### GENERAL

Frequency Coverage	: One of the following segments 450MHz ~ 460MHz 460MHz ~ 470MHz
Operation	: Simplex/Semi-duplex (Any separation program- mable)
Antenna Impedance	: 50 Ohms unbalanced
Power Supply Requirements	: DC 13.8V $\pm$ 15% Negative Ground 9.0A Max.
Current Drain	: Transmitting: Approx. 8.5A Receiving: At Max. Audio Approx. 0.7A Squelched Approx. 0.3A
Operating Temperature	: $-30^{\circ}\text{C}$ to $+55^{\circ}\text{C}$
Dimensions	: 50mm(H) x 170mm(W) x 260mm(D)
Net Weight	: 2.6Kg

### TRANSMITTER

Transmitting Frequency	: 2 Channels (12 channel version is available)
Channel Spread	: 6MHz maximum
Channel Spacing	: 20KHz/25KHz spacing (12.5KHz spacing available)
Frequency Stability	: $\pm 0.0005\%$
Emission Mode	: 16F <sub>3</sub> (F3E 16K0)
Output Power	: 35W
Max. Frequency Deviation	: 5KHz
Spurious Emission	: More than 70dB below carrier (Less than 2.5 $\mu$ W)

### Microphone

: Impedance:	600 Ohms
Input level:	10mV typical
	Dynamic microphone

### RECEIVER

Receiving Frequency	: 2 Channels (12 channel version is available)
Channel Spread	: 2.5MHz maximum
Modulation Acceptance	: 16F <sub>3</sub> (F3E 16K0)
Receiving System	: Double superheterodyne
Intermediate Frequency	: First IF 21.4MHz Second IF 455KHz
Sensitivity	: Less than 0.3 $\mu$ V for 12dB SINAD
Squelch Sensitivity	: Less than 0.3 $\mu$ V
Spurious Response Rejection Ratio	: More than 75dB
Adjacent Channel Rejection Ratio	: More than 75dB
Intermodulation Rejection Ratio	: More than 70dB
Selectivity	: $\pm 6\text{KHz}$ at the $-6\text{dB}$ point $\pm 12.5\text{KHz}$ at the $-70\text{dB}$ point
Squelch	: Dual: Noise compensated squelch Continuous Subaudible Tone Squelch or 2805Hz Tone squelch option
Audio Output Power	: More than 5 Watts with 4 ohm load at 10% distortion
Audio Output Impedance	: 4 ~ 8 Ohms

## ACCESSORIES

### Plug-in Tone Signalling Options

#### UT-10 Two-Channel Subaudible Encoder/Decoder

Designed for the IC-435-2, the UT-10 provides two channels of encode/decode. Programming is by diode matrix. Tone unit is Comm Spec TS32.

#### UT-11 2805 Decoder

For the IC-435-2 or 12-channel transceivers, the UT-11 utilizes the Midian CS101B decoder.

#### UT-12 Two Tone/Five Tone Sequential or DTMF Decoder

This unit works in the 2 or 12-channel transceiver. When the Midian TTD-2 DTMF decoder is installed, it decodes standard DTMF tones according to the user programmable TTD-2.

If the Midian MTSD-1 two-tone sequential decoder is installed, it decodes them according to user programming on the MTSD-1. The Midian MTSD-5 installed on the UT-12 provides five-tone sequential decoding.

#### UT-14 12-Channel Subaudible Encoder/Decoder

For use in the IC-435-12, the UT-14 utilizes the Comm Spec TS32 encoder/decoder and its own diode matrix programming board to provide 12 independent encode/decode channels.

All options provide "call" light operation. "Horn honk" is optional.

### Optional Remoting Kit CK-11

Available for trunk-mount installation of the IC-435-2 or IC-435-12, the CK-11 provides the ultimate in mounting flexibility.



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All stated specifications are approximate and subject to change without notice or obligation.

Printed in Japan