

ICOM

FM TRANSCEIVERS

IC-281H (144 MHz)

IC-481H (UHF)



Side view of the IC-281H

Single banders with dual band features.

Bonus receive band

An extra receive band, the UHF band for the IC-281H or VHF band for the IC-481H, is available in addition to the main operating band. Using this bonus receive band, enjoy full duplex, crossband operation between the 2 m and 70 cm bands.



Other outstanding features

- Packet ready — independent [DATA] jack and over-modulation limiter for 9600 bps operation
- Optional tone scan — great when you don't know the subaudible tone required to access a repeater (UT-85 required)
- Remote control microphone* — function access at your fingertips
- Optional voice synthesizer — frequency confirmation without taking your eyes off the road (UT-66 required)
- One-piece die-cast aluminum frame including a large heat sink — provides increased stability for high duty cycle operation e.g. packet

▲ IC-281H

Scratch pad memories

and more...

- Built-in pager and code squelch functions
- Optional tone squelch and pocket beep functions
- Auto dialing capability for autopatching*
- 3 pairs of programmable scan edges
- SET mode to customize operation
- Auto-power off function
- Standard for U.S.A. and Korea versions only.



SPECIFICATIONS

GENERAL

- Frequency coverage (MHz) :

Version	IC-281H		IC-481H	
	Main (Tx/Rx)	Bonus (Rx only)	Main (Tx/Rx)	Bonus (Rx only)
U.S.A	144-148 MHz	440-450 MHz	440-450 MHz	136-174 MHz
Asia	144-148 MHz*	430-440 MHz	430-440 MHz	136-174 MHz
Korea	144-146 MHz	430.075-440 MHz	435.075-440 MHz	144-146 MHz
Australia	144-148 MHz	430-440 MHz	430-440 MHz	144-148 MHz
Europe	144-146 MHz	430-440 MHz	430-440 MHz	144-146 MHz
Italy	144-148 MHz*	400-479 MHz	400-479 MHz	136-174 MHz

*136-174 MHz for receive only

- Tuning step increments : 5, 10, 12.5, 20, 25, 30 or 50 kHz
- Number of memory channels : 60 regular, 2 call, 10 scratch pads and 12 scan edges
- Mode : FM (F3)
- Antenna impedance : 50 Ω (nominal)
- Power supply requirement : 13.8 V DC \pm 15% (negative ground)
- Current drain (at 13.8 V DC) :

Condition	IC-281H	IC-481H	
			Transmit
	Mid	5.5 A	6.0 A
	Low	4.0 A	4.5 A
Receive	Max. audio	1.0 A	1.0 A
	Stand-by	0.8 A	0.8 A

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

- Frequency stability : \pm 10 ppm (-10°C to +60°C)
- Usable temperature range : -10°C to +60°C; +14°F to +140°F
- Dimensions : 140(W) \times 40(H) \times 171(D) mm
5.5(W) \times 1.6(H) \times 6.7(D) in
(projections not included)
- Weight : IC-281H 930 g; 2.1 lb
IC-481H 960 g; 2.1 lb

TRANSMITTER

- Output power (selectable) : IC-281H 50 W, 10 W, 5 W
IC-481H 35 W, 10 W, 5 W
- Modulation system : Variable reactance frequency modulation
- Max. frequency deviation : \pm 5.0 kHz
- Spurious emissions : Less than -60 dB
- Microphone impedance : 600 Ω

RECEIVER

- Receive system : Double-conversion superheterodyne
- Sensitivity : Main band Less than 0.16 μ V for 12 dB SINAD
Bonus band Less than 0.2 μ V for 12 dB SINAD
- Squelch sensitivity : Less than 0.13 μ V
- Spurious response rejection : More than 60 dB
- Audio output power : More than 2.4 W at 10% distortion with an 8 Ω load.
- Audio output impedance : 4-8 Ω

OPTIONS

INTERNAL UNITS

- **UT-66** VOICE SYNTHESIZER UNIT
A clear, electronically generated voice announces the operating frequency in English or Japanese.
- **UT-85** TONE SQUELCH UNIT
Provides pocket beep, tone squelch and tone scan functions and ensures quiet standby. Can also be used as a subaudible tone encoder.

EXTERNAL SPEAKERS

- **SP-7** EXTERNAL SPEAKER
Large speaker suitable for base station operation. Input impedance: 8 Ω Max. input power: 5 W
- **SP-10** EXTERNAL SPEAKER
Compact design provides excellent audio in your vehicle. Input impedance: 4 Ω Max. input power: 5 W
- **SP-12** EXTERNAL SPEAKER
Slim-type speaker for mobile operation. Can be easily installed on a sun visor, dashboard, etc. Input impedance: 8 Ω Max. input power: 3 W

DC POWER SUPPLIES

- **IC-PS30** DC POWER SUPPLY
Equipped with 3 output connectors. Output voltage: 13.5 V DC; Max. current drain: 25 A

CABLES

- **OPC-345** DC POWER CABLE
Supplied with the IC-481H. Cable length: 3 m (9.8ft); capacity: 15 A.
- **OPC-346** DC POWER CABLE
Supplied with the IC-281H. Cable length: 3 m (9.8 ft); capacity: 20 A.
- **OPC-347** DC POWER CABLE
Cable length: 7 m (23.0 ft); capacity: 20 A.
- **OPC-440** MIC EXTENSION CABLE
Extends the microphone cable. Cable length: 5.0 m (16.4 ft).

MICROPHONES

- **HM-77** DTMF MICROPHONE
Equipped with 14 DTMF code memory channels for auto dialing and 1750 Hz tone call functions. Also provides remote control capabilities. Same type as supplied with the U.S.A. and Korea versions.
- **HM-78** HAND MICROPHONE
Same type as supplied with the Australia and Asia versions.
- **HM-79** HAND MICROPHONE
Equipped with a 1750 Hz tone call function. Same type as supplied with the Europe and Italy versions.

OTHER OPTIONS

- **MB-17A** MOBILE MOUNTING BRACKET
One-touch bracket. Transceiver body is easily attached and removed.
- **MB-27** MOBILE MOUNTING BRACKET
Same as the supplied one.



SP-7



SP-10



SP-12



IC-PS30



MB-17A

Icom Inc. 6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan Phone: 06 793 5302 Fax: 06 793 0013 Telex: 05277822 ICOMTR J

Count on us!

Icom America Inc.

<Corporate Headquarters>
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone : (206) 454-8155 Fax : (206) 454-1509
Telex : 152210 ICOM AMER BVUE

<Customer Service>
Phone : (206) 454-7619

<Regional Customer Service Center>
18102 Sky Park South, Suite 52-B, Irvine, CA 92714, U.S.A.
Phone : (714) 852-8026 Fax : (714) 852-8716

Icom Canada

A Division of Icom America Inc.
3071 #5 Road, Unit 9, Richmond, B.C., V6X 2T4, Canada
Phone : (604) 273-7400 Fax : (604) 273-1900

Icom (Europe) GmbH

Communication Equipment
Himmelgeister Str. 100, 40225 Düsseldorf 1, Germany
Phone : 0211 346047 Fax : 0211 333639

Icom (Australia) Pty. Ltd.

A.C.N 006 092 575
7 Duke Street, Windsor, Victoria, 3181, Australia
Phone : 03 529 7582 Fax : 03 529 8485

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
Phone : 0227 741741 Fax : 0227 741742
Telex : 965179 ICOM G

Icom France S.a

Zac de la Plaine, Rue Brindejonc des Moulinais
BP 5804, 31505 Toulouse Cedex, France
Phone : 61.36.03.03 Fax : 61.34.05.91
Telex : 521515 ICOM FRA

Your local distributor/dealer: