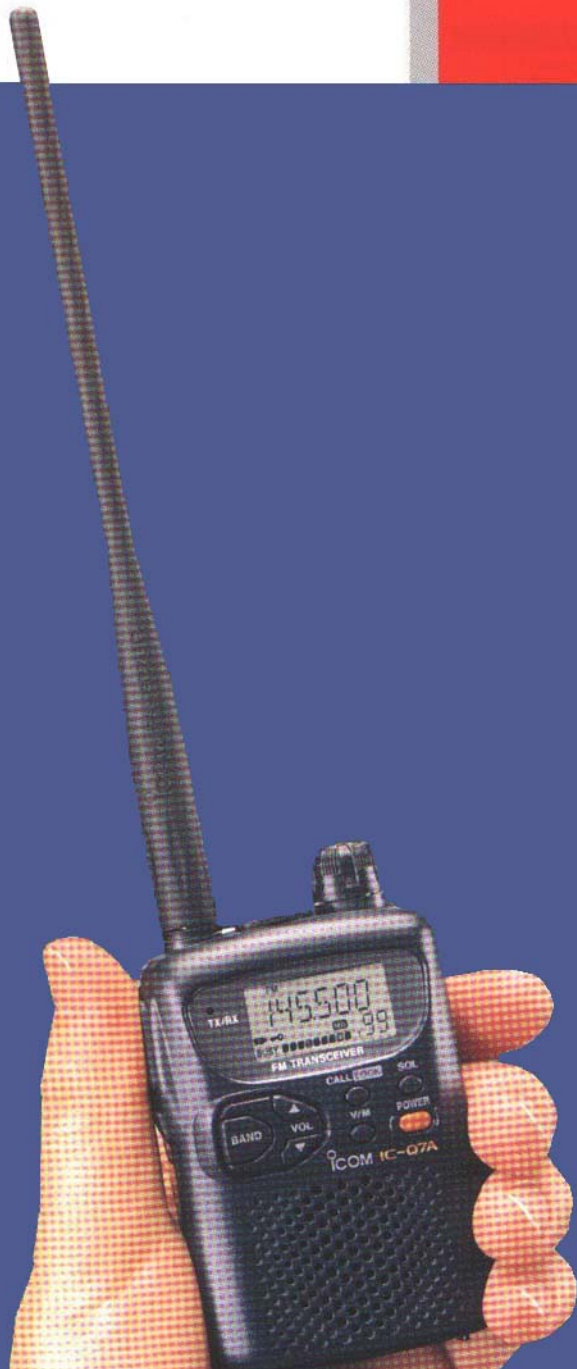


ICOM

VHF/UHF FM TRANSCEIVER

IC-Q7A (U.S.A. version)

IC-Q7E (Europe version)



## Dual band transceiver with wide band receiver

### Wide band receive capability—30 to 1300 MHz

The IC-Q7A/E is a mini-power\*1 dual band transceiver with a wide band receiver. The built-in receiver covers a wide frequency range from 30 to 1300 MHz\*2 in FM, AM and WFM modes. This allows you to listen to the air band, TV and FM broadcast stations, the 50 MHz and 1200 MHz amateur bands and more—similar to what a dedicated wide band scanning receiver offers.

\*1 At 3.0 V DC; 350 mW typical for VHF, 300 mW typical for UHF.

\*2 Some frequency ranges may be restricted depending on version.

### Ultra compact, drip-resistant body

The transceiver's tiny body measures only 58(W) × 86(H) × 27(D) mm\*—easily fitting in your palm or shirt pocket. And drip-resistant construction helps protect the transceiver in bad weather or when operating near the water.

\*2 9/32(W) × 3 3/8(H) × 1 1/16(D) in.

### Tone squelch standard

Tone squelch operation provides quiet standby—only calls directed to you can open the squelch and be heard. 50 tone frequencies are available and in addition a tone scan function is provided.

### Large built-in speaker

A large (36 mm; 1 3/32" diameter) speaker is built-in to the front panel of the IC-Q7A/E providing loud, crystal clear audio even in noisy environments, etc.

### Economical design

Only 2 alkaline or Ni-Cd cells are needed. Total driving current has been reduced for longer battery life. Put this together and you have economical, lightweight operation.

### Simple operation

The IC-Q7A/E employs an easy band switching system. When you want to change between operating bands, simply push the large band change switch. Controls have been kept to a minimum (8 switches plus power switch and dial) to ensure quick and easy access to all functions.

### Automatic squelch

The automatic squelch system detects receive signal strength and adjusts the squelch level accordingly. Manual squelch can also be selected.

### Other features

- LCD backlighting with timer
- Automatic repeater function (USA version only)
- 200 memory channels
- RIT function
- and more...

Icom Inc.

## SPECIFICATIONS

## GENERAL

• Frequency coverage : (unit: MHz)

	Transmit	Receive
USA	144-148	30-823.995
	440-450	849-868.995 894-1309.995*
Europe	144-146 430-440	30-1309.995*
Italy	144-148 430-440	30-1309.995*
Asia	144-148 430-440	30-1309.995*
USA-1	144-148 440-450	30-1309.995*

\*Specifications guaranteed 30-1300 MHz.

- Mode : FM, AM\*, WFM\*  
\*Receive only.
- No. of memory ch. : 200
- Usable temp. range : -10°C to +60°C;  
+14°F to +140°F
- Tuning steps : 5, 6.25, 10, 12.5, 15, 20, 25,  
30, 50 and 100 kHz
- Frequency stability : ±6 ppm (-10°C to +60°C)
- Power supply requirement:  
2 × AA(R6) Ni-Cd or alkaline  
cells (negative ground)
- Current drain (VHF/UHF; at 3.0 V DC):  
Tx max. power 440 mA/380 mA (typical)  
Rx rated audio 170 mA (typical)  
standby 95 mA (typical)  
power saved 38 mA (typical)
- Antenna connector : SMA (50 Ω)

- Dimensions : 58(W)×86(H)×27(D) mm;  
(projections not included) 2<sup>9</sup>/<sub>32</sub>(W)×3<sup>3</sup>/<sub>8</sub>(H)×1<sup>1</sup>/<sub>16</sub>(D) in
- Weight : 170 g; 6 oz (w/ant. and battery)
- MIC/SP connector : 4-conductor 3.5 (d) mm (1/8");  
2 kΩ/8 Ω

## TRANSMITTER

- Modulation system : Variable reactance
- Output power : 350 mW typ. (VHF)  
(at 3.0 V DC) 300 mW typ. (UHF)
- Spurious emissions : Less than -40 dB
- Max. freq. deviation : ±5 kHz

## RECEIVER

- Receiver system : Triple conversion  
superheterodyne
- Intermediate freq. : 1st 266.7 MHz  
2nd 19.65 MHz  
3rd 450 kHz
- Sensitivity (except spurious points; typical values):  
FM 30-117.995 MHz 0.32 μV  
(at 12 dB SINAD) 118-174.995 MHz 0.16 μV  
175-246.995 MHz 0.22 μV  
247-329.995 MHz 0.4 μV  
330-379.995 MHz 0.32 μV  
380-469.995 MHz 0.18 μV  
470-749.995 MHz 1.0 μV  
750-999.995 MHz 0.32 μV  
1000-1199.995 MHz 0.79 μV  
1200-1300 MHz 0.5 μV

WFM	76-108.0 MHz	1.0 μV
(at 12 dB SINAD)	175-221.995 MHz	1.0 μV
	470-770 MHz	5.6 μV
AM	118-136.0 MHz	0.56 μV
(at 10 dB S/N)	222-246.995 MHz	0.79 μV
	247-329.995 MHz	1.4 μV

- Squelch sensitivity : 0.18 μV (144-148 MHz)  
0.22 μV (430-450 MHz)
- Selectivity :  
FM, AM : More than 15 kHz/-6 dB  
Less than 30 kHz/-60 dB  
WFM : More than 150 kHz/-6 dB
- Image rejection ratio : More than 60 dB  
(amateur bands only)
- Audio output power : 100 mW typ. at 10% distortion  
(at 3.0 V DC) with an 8 Ω load

## Supplied accessories

- Antenna
- Belt clip
- Hand strap

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

## OPTIONS

BC-127  
Ni-Cd CHARGER

Charges supplied 2 AA (R6) 700 mAh Ni-Cd cells simultaneously in 7 hours. Up to 4 cells can be charged.

LC-146  
CARRYING CASE

Helps protect the transceiver from scratches, etc.

HS-85  
HEADSET

Allows you hands-free operation. Includes VOX, PTT, "one-touch PTT" (TOT). OPC-782 is additionally required.

HM-46  
SPEAKER-  
MICROPHONE

Compact and lightweight. Equipped with an ear-phone jack. OPC-782 is additionally required.

SP-13  
EARPHONE

Provides clear audio in noisy environments. OPC-782 is additionally required.

OPC-782  
PLUG ADAPTER  
CABLE

Allows connection between a transceiver and speaker-microphone, headset, etc.

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Count on us!

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