O ICOM

IC-T90A

Surprisingly compact, full featured tri-bander with wideband receiver

5 Watts on 50MHz, 144MHz, and 440MHz

| Wideband receiver – | 495kHz-999.990MHz!

555 alphanumeric memory channels with Icom's NEW DMS (Dynamic Memory Scan) technology!



Wideband receiver — 495kHz to 999.990MHz

The commercial grade IC-T90A transceiver offers a wideband AM, FM, and WFM scanning receiver. Not only you can hear your favorite TV programs with the pre-programmed TV memories, but also you can listen to shortwave, AM and FM broadcast radio stations with good sound quality. Police, fire, military, aircraft and various amateur bands also can be tuned.

DMS (Dynamic Memory Scan) bank scanning

With 555 alphanumeric memory channels, including 50 band edges and 5 call channels, Icom's DMS technology gives you flexible scanning lists. With a maximum of 18 banks or 100 channels per bank, you can pick and choose the desired channel for scanning from the 500 memories.

Lithium-Ion technology

Enjoy a full 5 watts from the supplied 1300mAh Lithium-Ion battery pack, BP-217. Along with the energy conserving settings, the BP-217 provides up to 5 to 6 hours*1 of operating time and greatly reduces both the size and weight needed to get full output power. Just recharge and go! *1 Tx high: Rx: Stand-by duty ratio= 1: 1: 8

Rugged palm sized*², splash resistant construction This compact radio is comfortable in the smallest of hands, and offers full radio control for large fingers. The aluminum die-cast case and chassis is designed for the most rugged environments with splash resistance equivalent to JIS 4 specifications. *2 See back for actual dimensions.

DTCS and CTCSS tone squelch

A standard feature of the IC-T90A is both DTCS and CTCSS encode and decode capability. Choose from either 104 DTCS or 50 CTCSS codes for receive and transmit, individually. In addition, a pocket beep function gives you an audio alert when a matched tone signal is received — a great feature for quiet, group operations.

Simple operation

Simple, one-handed operation is the most valuable feature of the IC-T90A. The backlit ten-key pad allows you to enter frequency, memory number and set various other features. The tuning knob can be customized for either channel selection, or volume control.

Wait! There's more...

- DTMF encoder with 10 DTMF memories
- Auto squelch Morse code synthesizer
- indicates the frequency in morse code
- Backlit LCD and keypad High speed scanning • 13 scanning modes
- Antenna tip replaceable PC Programmable
- 5.5–11V DC operation Split operation
- Weather alert scan* (* U.S.A. version only)
- Wide/narrow transmit capability



Icom Inc.

SPECIFICATIONS

GENERAL					
Frequency coverage : (U					
Version	50MHz	144MHz	440MHz	Receive	
U.S.A.	50-53.995	144–148	430-450*1	0.495-999.990*2	
Asia	50-53.995	144–148	430-440	0.495-999.990	
General	50-53.995	144–148	430-440	0.495-999.990	
** Guranteed range 440–450. *> Cellular blocked. • Mode : FM, AM (Rx. only), WFM (Rx. only) • Frequency stability : ±6ppm (-10°C to +60°C) • No. of memory Ch. : 555 (500 reg., 50 scan edges, 5 call) • Useable temp. range: -10°C to +60°C; +14°F to +140°F • Power supply : 5.5 to 11V DC or specified battery pack • Current drain (at 8.0V DC): Tx High 2.0A typ. Low 0.8A typ. (50/144MHz) 1.2A typ. (430MHz) Rx Rated audio 220mA					
Power save 65mA (duty=1:4) • Tuning steps (kHz) : 5, 6, 25, 8, 33, 9, 10, 12.5, 15, 20, 25, 30, 50, 100, 200 • Antenna impedance : 502 (SMA) • Dimensions : 562 (SMA) • Dimensions : 58(W)×87(H)×29(D) mm ; (projections not included) • Weight (approx.) : 280g; 9% oZ (w/antenna and BP-217)					

OPTIONS





jack and transmit indicator. HM-75A: Allows you to remotely select operating channels, etc., according to cloning.

HM-131 : Compact and durable body. Equipped with an earphone jack and a revolving clip.

+ VS-1 VOX/F	.0
HS-94	VS-1
Flexible boom	microphone and rotating

earpad with a spring earhook. Allows you hands-free operation.

HS-85 HEADSET is also available. Includes VOX, PTT, "one-touch PTT" (TOT).

by clipping the Mic. with PTT switch to your lapel or breast pocket.

HM-128 EARPHONE-

MICROPHONE

Ideal for hands-free operation

(at 12dB SINAD)	175-221.995MHz	1.8µV
	470–770MHz	3.2µV
AM (at 10dB S/N)	0.495-4.995MHz	1.3µV
	5-29.995MHz	0.56µV
	118–136MHz	0.5µV
	222-229.995MHz	0.79µV
	320-329.995MHz	1µV
 Selectivity 	: More than 15kHz/-9	dB
(except WFM)	Less than 30kHz/-6	0dB
 Spurious and image 	rejection ratio:	
50MHz	More than 60dB	
	(half IF: 50dB, IF : 40dB))
144MHz	More than 60dB (half	IF : 50dB)
440MHz	More than 50dB (IF :	60dB)
 Audio output power (at 25°C) 	: 200mW typ. at 10% dis	stortion/8Ω load
	r: 2-conductor 3.5(d) n	nm (1⁄/8″)/8Ω

1uV

CP-19 CIGARETTE LIGHTER

Allows you to operate the transceiver with

11V DC output through a cigarette lighter

socket (12V). The connected battery pack is

CLIP

MB-83 SWIVEL BELT

Prevents accidental dropping

02EK008A

from your belt.

charged simultaneously.

CABLE WITH NOISE FILTER

Supplied accessories (*depending on version)				
 Battery pack (BP-217) 	 Wall charger* (BC-110AR/DR) 			
 Antenna (FA-S6270D) 	 Swivel belt clip (MB-83) 			

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

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Icom Inc. (Japan), is an ISO9001 certification acquired company.



Helps protect the transceiver from scratches, etc. Fits any battery pack.

AD-92SMA ANTENNA

CONNECTOR ADAPTER Allows you to connect a BNCtype antenna

BC-110AR/DR WALL CHARGER Regularly charges battery packs. The same as supplied with some versions.

CS-T90A CLONING SOFTWARE + OPC-478 CLONING CABLE Provides quick and easy editing of memory channels, memory names and set mode contents, for local repeater frequencies, etc. **OPC-474** CLONING CABLE

Used for handheld-to-handheld data cloning. SP-13 EARPHONE

Provides clear audio in noisy environments.

Count on us!

Your local distributor/dealer:

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Printed in Japan



	RECEIVER				
Receive system : Double-conversion superheterodyne					
 Intermediate freq. 	: 1st 69.45MHz (FM/AM)				
	13.35MHz (WF	M)			
	2nd 450kHz				
 Sensitivity* (typ.;except spurious points): 					
FM	1.625-4.995MHz	0.4µV			
(at 12dB SINAD)	5–49.995MHz	0.18µV			
	50–54MHz	0.16µV			
	54.005–143.995MHz	0.18µV			
	144–148MHz	0.16µV			
	148.005-221.995MHz	0.4µV			
	222–225MHz	0.32µV			
	225.005-246.995MHz	0.4µV			
	247-429.995MHz	0.32µV			
	430-450MHz	0.16µV			
	450.005-832.995MHz	0.32µV			
	833-999.990MHz	1µV			
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TRANSMITTER

Ext. MIC connector : 3-conductor 2.5(d) mm (1/10")/2kΩ

Low 0.5W typ.

• Output power (8.0V DC): High 5W typ.

• Spurious emissions : Less than -60dB Max, freq, deviation : ±5.0kHz