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, weather-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 weather 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)



Icom Inc.

SPECIFICATIONS

GENERAL							
Frequency coverage : (Unit: MH							
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			
*1 Guranteed range 440-450. *2 Cellular blocked.							
Mode : FM, AM (Rx. only), WFM (Rx. only)							
 No. of me 	mory Ch. :	555 (500 reg	., 50 scan edg	jes, 5 call)			
 Frequenc 	y stability :	±6ppm (-10	°C to +60°C)				
• Useable temp. range: -10°C to +60°C; +14°F to +140°F							
 Power su 	pply :	5.5 to 11V DC or specified battery pack					
Current di	rain (at 8.0V D	C):					
Tx Hig		2.0A typ.					
Low		0.8A typ.					
Rx Ra	ited audio	220mA					
Po	wer save	35mA (duty=	=1:4)				
Tuning steps (kHz)		: 5, 6.25, 8.33, 9, 10, 12.5, 15, 20, 25,					
0	• • •	30, 50, 100	, 200				
 Antenna i 	mpedance :						
		: 58(W)×87(H)×29(D) mm ;					
(projections	not included)	217/32(W)×37/16×15/32(D) in.					
Weight (approx.)		: 240g; 8 ¹⁵ /32 OZ (w/antenna and BP-217)					

TRANSMITTER • Output power (8.0V DC): High 5W Low 0.5W • Spurious emissions : Less than -60dB Max, freq, deviation : ±5.0kHz

Ext. MIC connector : 3-conductor 2.5(d) mm (1/8")/2kΩ

	RECE	IVER	
 Receive system 	: Double-	conversion sup	erheterodyne
 Intermediate freq. 	: 1st	: 1st 69.45MHz (FM/AM)	
		13.350MHz (WFM)	
	2nd	450kHz	
 Sensitivity* (typ.;exce 	pt spurious p	points):	
FM	1.625-4	1.995MHz	0.4µV
(at 12dB SINAD)	5-49.99	95MHz	0.18µV
	50–54N	1Hz	0.16µV
	54.005-	-143.995MHz	0.18µV
	144–14	8MHz	0.16µV
	148.005	5-221.995MHz	0.4µV
	222-22	5MHz	0.32µV
	225.005	5-246.995MHz	0.4µV
	247-42	9.995MHz	0.32µV
	430-45	0MHz	0.16µV
	450.005	5-832.995MHz	0.32µV
	833-99	9.990MHz	1.0µV
			•

WEM 40-108MHz 1uV 175-221.995MHz (at 12dB SINAD) . 1.8μV 3.2μV 1.3μV 470-770MHz 0.495-4.995MHz AM (at 10dB S/N) 5-29.995MHz 0.56µV 118-136MHz 0.5uV 222-229.995MHz 0.79µV 320-329.995MHz 1µV More than 15kHz/–9dB Selectivity (except WFM) Less than 30kHz/-50dB Spurious and image rejection ratio: 50MHz More than 60dB (half IF: 50dB, IF : 40dB) More than 60dB (half IF : 50dB) More than 50dB (IF : 60dB) 144MHz 440MHz

 Audio output power : 200mW typ. at 10% distortion/8Ω load

(at 25°C) AF output impedance : 8Ω

Supplied accessories (*depending on version)				
 Battery pack (BP-217) Wall charger* 				
Antenna Swivel belt clip				

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

OPTIONS



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

Allows you to connect a BNC-

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

CS-T90A CLONING SOFTWARE + OPC-478 CLONING CABLE Provides quick and easy editing of memory channels, memory names and set mode contents, for

Provides clear audio in noisy environments.

Your local distributor/dealer:

Printed in Japan