

INSTRUCTION MANUAL

VHF FM TRANSCEIVER

C-T21CP

UHF FM TRANSCEIVER

Icom Inc.



IMPORTANT

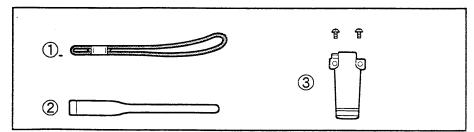
READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL. This instruction manual contains important safety and operating instructions.

For telephone operation, the OPB (OPtion Board) is required. Otherwise, only talk around operation is available. Ask your system operator or Icom Dealer for details.

UNPACKING

1	Handstrap	1
2	Flexible antenna (FA-S270A)	1
	Belt clip and screws 1 se	



The BP-152 BATTERY PACK is attached to the transceiver.

CAUTIONS

NEVER connect the transceiver to an AC outlet. This connection will ruin the transceiver.

NEVER allow children to touch the transceiver.

DO NOT turn the power ON while a wall charger is connected to [DC 13.5V] on the top panel. This jack is used for charging only.

AVOID using or placing the transceiver in areas with temperatures below -10° C or above $+60^{\circ}$ C.

AVOID placing the transceiver in direct sunlight.

BE CAREFUL! When transmitting for a long time at high output power, the rear panel will become hot.

BE CAREFUL! The use of non-loom battery packs and chargers may impair transceiver performance and invalidate the warranty.

TABLE OF CONTENTS

۱۱	MPORTANT	i
	INPACKING	
	AUTIONS	
T	ABLE OF CONTENTS	. ii
4	PANEL DESCRIPTION 1	
	Front and side panels	. 1
	Keyboard	. 2
	Top and rear panels	. З
	Function display	. 4
	•	
2	ACCESSORY ATTACHMENT	5
3	BATTERY PACK CHARGING 6	-7
	■ Usable battery packs	. 6
	☑ Charging connections	. 6
	Battery pack notes	. 7
	■ Dry cell battery installation	. 7

4	TELEPHONE OPERATION Pre-operation Calling Answer back Output power selection Re-dialing		8 8 9 . 9
	DTMF memory operation Lighting Battery voltage indication		11
5	TALK AROUND OPERATION Talk around communication Monitor function Beep tones Scan operation	•••••	12 13 13
ô	PAGER AND CODE SQUELCH Code setting Code channel programming Pager operation Code squelch operation	•••••	14 14 15
7	OPTIONS		16

PANEL DESCRIPTION

Front and side panels

FUNCTION SWITCH [FUNC]

When pushed and held, some other switches perform secondary functions. "Push [FUNC] + a switch" means "while pushing [FUNC], push the switch."

SEND SWITCH [SND]

- While in telephone operation: Push to call or to answer back to a call. Push again to end communicating. (pgs. 8, 9)
- -While in talk around operation: Push to transmit and release to receive. (p. 12)

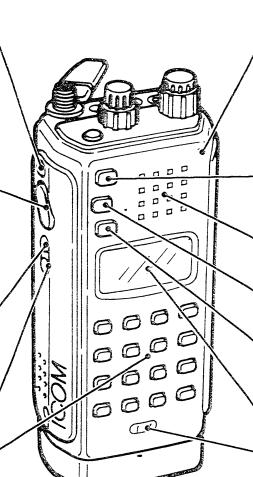
MONITOR SWITCH [MONI]

- While in telephone operation: No function.
- -While in talk around operation: Monitors the channel. (p. 13)

LIGHT SWITCH [LIGHT]

Turns the lighting ON and OFF. (p. 11)

KEYBOARD (p. 2)



TRANSMIT/RECEIVE INDICATOR

- While in telephone operation: Lights up in red while communicating. (p. 8)
- -While in talk around operation: Lights up in red while transmitting. Lights up in green while receiving. (p. 12)

HIGH/LOW SWITCH [H/L]

Selects high or low output power level. (pgs. 8, 12)

SPEAKER

BAND SWITCH [BAND]

No function.

DTMF SWITCH [DTMF]

Selects DTMF MEMORY mode. (p. 10)

FUNCTION DISPLAY (p. 4)

MICROPHONE

Keyboard

♦ While in telephone operation

Key	Function
1 2 3 4 5 6 7 8 9 * 0 #	- Input a telephone number. (p. 8) - While in DTMF MEMORY mode: Select a DTMF memory channel. (p. 10)
A	- Cancels re-dialing function. (p. 9) - Exits DTMF MEMORY mode. (p. 10)
C	Cancels telephone number. (p. 8)
D	Allows you to re-dial. (p. 9)
FUNC (8)	While in DTMF MEMORY mode: Allows you to program a DTMF memory channel. (p. 10)

NOTE: For telephone operation, the OPB (OPtion Board) is required. Otherwise, only talk around operation is available. Ask your system operator or Icom Dealer for details.

♦ While in talk around operation

Key	Function
1 2 3 4 5 6 7 8 9 ** 0 #	While in code channel setting display: Program a code channel. (p. 14)
FUNC () + (2)	Activates or cancels the pager or code squelch function. (p. 15)
FUNC () + (3)	While in code channel setting display: Sets a code channel for "receivie inhibit" or "receive accept." (p. 14)
© + ⑤	Selects code channel setting display for pager or code squelch. (pgs. 14, 15)
FUNC () + (3)	Selects SET mode to turn the beep tones ON or OFF. (p. 13)
FUNC (#)	Start the scan forward direction. (p. 13)
FUNC	Start the scan reverse direction. (p. 13)
A	 Exits SET mode. (p. 13) Cancels scanning. (p. 13) Exits the code channel setting display. (pgs. 14, 15)

1 PANEL DESCRIPTION

Top and rear panels

CHARGING JACK [DC13.5V]

Connects the optional BC-74A/E/D/V WALL CHARGER for regular charging. (p. 6)

CAUTION:

DO NOT turn the power ON while charging. This jack is used for charging only.

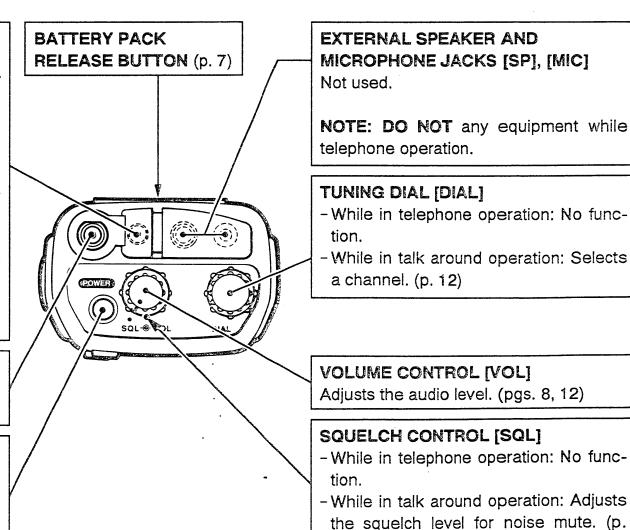
DO NOT connect the wall charger while operating with dry cell batteries using the optional BP-159 BATTERY CASE. Otherwise, battery leakage may occur.

ANTENNA CONNECTOR

SMA-type connector. Connects the supplied antenna. (p. 5)

POWER SWITCH [POWER]

- Turns the power ON and OFF. (p. 8)
- -With -[FUNC] + [A] when turning the power ON: Selects talk around operation. (p. 12)



12)

Function display

FUNCTION INDICATOR

Appears while [FUNC] is pushed and held.

SCAN INDICATOR

Appears while scanning. (p. 13)

NON-SCAN INDICATOR

Appears during non-scanning condition. (p. 13)

BATTERY VOLTAGE INDICATOR

Graphically shows remaining dry cell battery capacity. (p. 11)

DTMF TRANSMIT INDICATOR

Appears while DTMF code transmitting. (p. 8)

LOW POWER INDICATOR

Appears while low output power is selected. (pgs. 8, 12)

PAGER INDICATOR

Appears while the pager function is in use. (p. 15)

CODE SQUELCH INDICATOR

Appears while the code squelch function is in use. (p. 15)

TELEPHONE NUMBER READOUT

Shows the telephone number to be transmitted. (p. 8)

RF INDICATOR

Shows the selected output power level while transmitting. (p. 8)

CHANNEL NUMBER READOUT

Shows the selected channel number.

ACCESSORY ATTACHMENT

♦ Antenna

Insert the supplied antenna into the antenna connector and screw down the antenna.

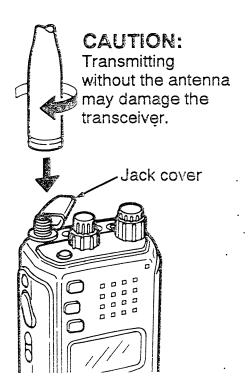
KEEP the jack cover attached when jacks are not in use to avoid bad contacts.

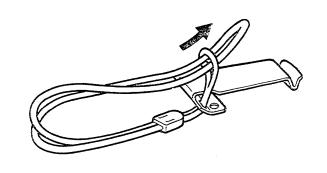
♦ Handstrap

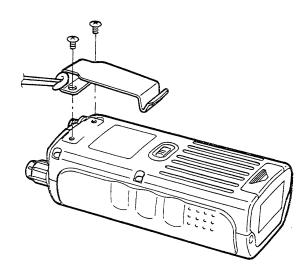
Install the handstrap to the supplied belt clip. The handstrap facilitates carrying.

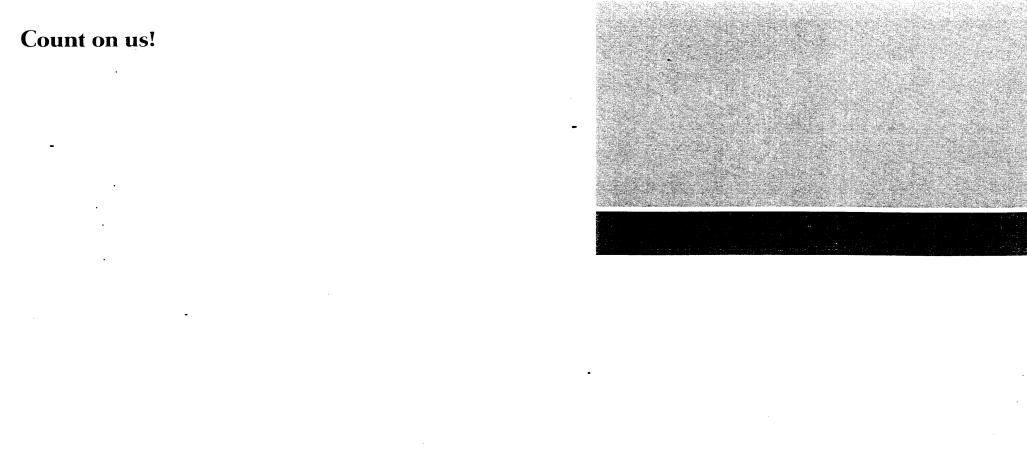
♦ Belt clip

Remove the plastic screws, then attach the belt clip with the supplied metal screws. Conveniently attaches to your belt.









A-5304S-1CH Printed in Japan Copyright © 1994 by Icom Inc. Icom Inc. 6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan