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THANK YOU FOR YOUR PURCHASE OF THE UV-2501 / UV-5001.
THIS DUAL BAND RADIO WILL DELIVER TO YOU SECURE
INSTANT RELIABLE COMMUNICATION.

PLEASE READ THIS MANUAL CAREFULLY BEFORE USE

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Part I. Getting started

Part one covers the basic setup and use of your mobile two-way transceiver.

CHAPTER 1 GETTING STARTED CHAPTER 2 BASIC USE

Chapter 1. – Getting Started

BEFORE PROCEEDING INSURE:

- Qualified technicians shall service this equipment only. Do not modify the radio for any reason.
- Use only BTECH supplied or approved accessories.
- Turn off your radio prior to entering any area with explosive and flammable materials.
 Do NOT USE your transceiver at a gas/fuel station
- For vehicles with an air bag, do not mount your radio in the area over an air bag or in the air bag deployment area.
- Do not expose the radio to direct sunlight over a long time, nor place it close to a heating source.
- If the unit emits smoke or an odor, you should immediately cut off the power supply. Then send the radio to the nearest service center or dealer
- Do not operate the mobile transceiver on high power unless it is necessary. Do not transmit for long periods of time, as it may overheat the transceiver.
- · Keep the unit away from dusty, damp and wet environments
- Use the correct power supply (~13.8V); do not use incorrect or higher voltage (e.g. 24V)

Unpacking and Inspecting

- Please check the packaging of your radio for any signs of damage.
- Carefully open the box, and confirm your received the items listed below.
- If you find the radio or the included accessories are damaged or lost, immediately contact your dealer.

What's in the Box



Mobile Radio



Microphone



Mounting Bracket



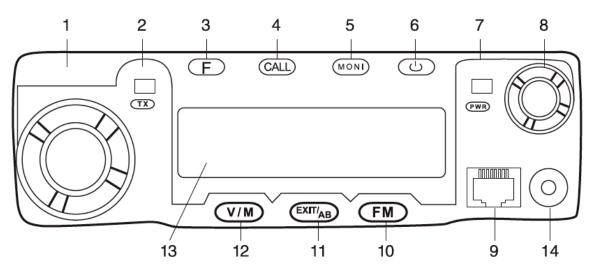
Power Cable



Mounting Screws and Fuse

Overview of the Transceiver

UV-5001 Pictured



- Selector, Main Knob
- 2. Transmit indicator
- 3. Function key
- 4. Call key
- 5. Monitor function
- 6. Power key
- 7. Power Indicator
- Volume Knob
- 9. Microphone Connector
- 10. FM radio function key
- 11. Exit the AB signal switching, alarm function
- 12. Channel switching
- 13. Display screen
- 14. PC port ***

***NOTE: The USB Programming slot is above the power cord on the back of the radio on the UV-2501

***An audio out Jack is above the power cord on the UV-5001

E: click to enter the function menu

call: when in standby, press to send caller ID (ANI) in the selected signaling mode; while transmitting, press to send activate signaling.

press to turn on the squelch, repeat to turn off the squelch.

: hold the key to turn radio power On or Off.

: press to switch between channel mode and frequency mode.

exitivab: press to choose between A and B frequencies --- Or exit function mode.

FM: press to enter and exit FM radio

Chapter 2. - Basic Use Menu Function Settings

Can be set by microphone keypad. After selecting the desired option below, pressing the (F Key) will save the setting.

- 0. **[F Key] + [0]**: TDR ON enables to monitor both A/B frequencies at the same time. When off, only the selected A or B frequency is selected.
- 1. **[F Key] + [1]**: STEP set step increment in frequency mode. 2.5kHz, 5kHz, 6.25kHz, 10kHz, 12.5kHz, 25kHz available.
- 2. [F Key] + [2]: SQL Sets receiver squelch level. 0=OFF, 1=Lowest setting. 9=highest.
- 3. [F Key] + [3]: TXP Transmit output power setting. HIGH/LOW.
- 4. **[F Key] + [4]**: SCR Scrambler setting. Activating voice scrambling avoids the user's speech from being overheard by others no using the scrambler function.
- 5. **[F Key] + [5]**: TOT transmission time-out timer. Sets maximum transmit time from 15 to 600 seconds (15 second steps).
- 6. [F Key] + [6]: APO Auto Power Off powers off the radio after a predetermined time

with no receiver activity. (30 > 300 minutes)

- 7. [F Key] + [7]: WN WIDE / NARR band width setting.
- 8. **[F Key] + [8]**: ABR LCD backlight time setting. OFF / 1-50 seconds.
- 9. **[F Key] + [9]**: BEEP turns key beep OFF/ON.
- 10. [F Key] + [1] + [0]: R-DCS DCS receive setting. D023N-D754N positive sequence, D023I-D754I reversed sequence.
- 11. [F Key] + [1] + [1]: R-CTCS CTCS receive setting. 67.0HZ-254.1HZor can use keypad to enter your target CTCS.
- 12. [F Key] + [1] + [2]: T-DCS transmit DCS setting. D023N-D754N positive sequence. D023I- D754I reversed sequence.
- 13. [F Key] + [1] + [3]: T-CTCS transmit CTCS setting. 67.0HZ-254.1HZor can use keypad to enter your target CTCS.
- 14. **[F Key] + [1] + [4]**: DTMFST DTMF side tone setting. OFF: No tones heard through the speaker when transmitted. KEY: Only manually keyed DTMF codes are heard. ANI: Only automatically keyed DTMF codes are heard. **BOTH**: All DTMF codes are heard.
- 15. [F Key] + [1] + [5]: BCL busy channel lock- out. When ON, transmitter is locked out if receiver is active.
- 16. [F Kev] + [1] + [6]: SC-ADD scan add setting. OFF: removes channel from scan list. ON: adds channel to scan channel list.

- 17. [F Key] + [1] + [7]: PRI-SC priority scan setting. ON/OFF turn on/off the function.
- 18. **[F Key] + [1] + [8]**: PRI-CH priority channel scan setting. Select 000 -199 channels mark with CH at front to priority scan.
- 19. **[F Key] + [1] + [9]**: SC-REV Scan recovery setting. TO: time scan, after receive carrier signal will stop scan and rescan after a while. CO: after receive carrier signal will stop scan. SE: Search scan mode. Scan will stop after receive according signal with radio.
- 20. **[F Key] + [2] + [0]**: OPTSIG Signal option setting. OFF turn off the function. DTMF: dual channel signal selected mode. 2TONE: 2 tone signal mode. 5TONE: 5 tone signal mode.
- 21. [F Key] + [2] + [1]: SPMUTE speaker mute setting. QT: turns on the speaker when receive setting is DCS. If no setting DCS, then will turn on the speaker when receive carrier signal. AND: speaker turns on only DCS and option signaling both meet radio setting. OR: speaker turn on either DCS or option signaling meet with radio setting.
- 22. **[F Key] + [2] :** PTT-ID PTT-ID transmit setting. OFF: no ID code sent when transmitting. BOT: send ID code at Beginning of Transmit. EOT: send ID code at End of Transmit. BOTH: send ID code at both beginning and end of transmit. (ID code information is set by PC software setting, from menu 24 to select ID code)
- 23. **[F Key] + [2] + [3**]: PTT-LT PTT-ID transmit delay setting. (Delay Time range is 0-30 seconds.)
- 24. [F Key] + [2] + [4]: S-INFO Signal information and automatic dialing memory. 1-15

- group signal code/decode memory. Only set by PC software.
- 25. [F Key] + [2] + [5]: EMC-TP alarm mode setting. ALARM: turn on the alarm sound. ANI: send alarm code and ID code. BOTH: both above.
- 26. [F Key] + [2] + [6]: EMC-CH alarm channel setting. CH will appear in front of the designated channel.
- 27. [F Key] + [2] + [7]: RING-T Ring time setting. OFF: close function. Choose 1-10 seconds to set ring time when radio Signal Code is received.
- 28. [F Key] + [2] + [8] : CHNAME channel name edit.
- 29. [F Key] + [2] + [9]: CA-MDF Display Mode (upper) FREQ: displays Frequency. CH: displays channel number. NAME: displays assigned channel name.
- 30. [F Key] + [3] + [0] : CB-MDF Display Mode (lower) FREQ: displays Frequency. CH: displays channel number. NAME: displays assigned channel name.
- 31. [F Key] + [3] + [1]: SYNC When ON, upper and lower display are synced to the same channel.
- 32. [F Key] + [3] + [2]: PONMSG PowerOn message. Display mode setting. FULL: Full display when turn on the radio. MSG: displays assigned PowerOn message. BATT-V displays battery voltage at PowerOn.
- 33. [F Key] + [3] + [3]: WT-LED standby backlight setting. OFF: no backlight. Color options are BLUE, ORANGE and PURPLE.
- 34. [F Key] + [3] + [4]: RX-LED receive backlight setting. OFF: no backlight. Color options

- are BLUE, ORANGE and PURPLE.
- 35. **[F Key] + [3] + [5]**: TX-LED transmit backlight setting. OFF: no backlight. Color options are BLUE, ORANGE and PURPLE.
- 36. [F Key] + [3] + [6]: MEM-CH saves the selected channel.
- 37. **[F Key] + [3] + [7]**: DEL-CH deletes the channel selected.
- 38. **[F Key] + [3] + [8]**: SFT-D Frequency difference direction setting. OFF: no frequency difference. (+): Transmit offset amount will higher than the receive frequency. (-): Transmit offset amount will lower than the receive frequency.
- 39. **[F Key] + [3] + [9]**: OFFSET difference between the transmit and receive frequency. (00.000 69.990 MHz)
- 40. [F Key] + [4] + [0]: ANI radio ID code. Code only can set by PC software.
- 41. **[F Key] + [4] + [1]**: ANI-L ID code length. Length = 3, 4, 5.
- 42. **[F Key] + [4] + [2]**: REP-S repeater activate setting. Pressing CALL will send a predetermined tone. Options are 1000 Hz, 1450 Hz, 1750 Hz, 2100 Hz.
- 43. [F Key] + [4] + [3]: REP-M repeater forwarding mode setting. OFF: close function. CARRI: forwarding after receive carrier. CTDCS: forwarding after receive correct CTDCS. TONE: forwarding after receive correct mono audio. DTMF: forwarding after receive assigned DTMF code.
- 44. **[F Key] + [4] + [4]**: TDR-AB TDR return time. Delay time before returning to the primary channel after secondary signal is clear.

- 45. [F Key] + [4] + [5]: STE Squelch Tail Elimination at the end of a received signal. Requires both radios to have the option ON.
- 46. [F Key] + [4] + [6]: RP-STE Repeater STE requires a repeater with this function ON.
- 47. **[F Key] + [4] + [7]**: RPT-DL RP-STE Delay time.
- 48. [F Key] + [4] + [8]: RESET VFO or ALL

Frequency Mode vs. Channel Mode

These two modes have different functions and often confused.

Frequency Mode (VFO) - Used for a temporary frequency assignment, such as a test frequency or quick field programming if permitted.

Channel Mode (MR) - Used for selecting preprogrammed channels.

All programming MUST be initially done in the Frequency Mode only. From there you have the option of assigning the entered data to a specific channel for later access in the Channel Mode if desired.

Programming Repeater with Offset

EXAMPLE New memory in Channel 99:

RX = 146.850 MHz TX = 146.250 MHz CTCSS tone 123.0

- 1. Change from Menu to Menu by pressing the [EXIT/AB] button.
- 2. Set radio to VFO Mode by pressing [V/M]

Channel number at the right will disappear.

- 3. Menu 37 [M] 99 [M] Delete Prior Data in channel (Ex. 99)
- 4. Menu 13 [M] 123.0 [M] Select desired TX encode tone (Ex 123 CTCSS)
 - a. Use [A/B] to select Upper display -> Enter RX frequency (Ex. 146850)
 - b. Use [A/B] to select Lower display -> Enter TX frequency (Ex. 148250)
- 5. **Select Upper Display** Use [A/B] key
- 6. Menu 36 [M] 9 9 [M] Enter the desired channel (Ex 99)
 - a. [EXIT] RX has been added
- 7. **Select Lower Display** Use [A/B] key
- 8. Menu 36 [M] 99 Enter the same channel (Ex 99)
 - a. [EXIT] **TX** has been added

9. [V/M] Return to MR Mode. Channel number will re-appear.

Programming a Simplex Channel

EXAMPLE New memory in Channel 99: RX = 446.000 MHz CTCSS tone 123.0

- 1. Change from Menu to Menu by pressing the [EXIT/AB] button.
- 2. Set radio to VFO Mode by pressing [V/M]

 Channel number at the right will disappear.
- 3. Menu 37 [M] 99 [M] Delete Prior Data in channel (Ex. 99)
- 4. Menu 13 [M] 123.0 [M] Select desired TX encode tone (Ex 123 CTCSS)
 - a. Use [A/B] to select Upper display -> Enter RX frequency (Ex. 446000)
- 5. Menu 36 [M] 9 9 [M] Enter the desired channel (Ex 99)
 - a. [EXIT] Channel has been added
- 6. [V/M] Return to MR Mode. Channel number will re-appear.

Other Basic Features Storing an FM Radio Station and Scanning

Use PC software to edit FM radio channels. (software FM option) Press microphone [*] Key to search FM channels under FM mode.

Keypad Lock-out

Hold the microphone [# key] for 2 seconds at standby to turn on/off the keypad lock-out function.

PTT ID Setting

- 1. Use PC software to edit PTT-ID code.
- 2. See manual 20, select signal, Press [F] Key + [2] Key + [0] Key + [F] Key + [UP] (DOWN) select signal+ [F] Key save the setting.
- See manual 22, setting PTT launch. Press [F] Key + [2] Key + [2] Key + [F] Key + [UP] (DOWN) select PTT-ID transmit time + [F] Key save setting.
- 4. See manual 23 setting PTT transmit delay time. Press [F] Key + [2] Key + [3] Key + [F] Key + [UP] (DOWN) select delay time + [F] Key save setting.
- 5. Press [PTT] to send setting ID code.

Optional signal setting

DTMF signal

This radio has DTMF coding/decode function. Use PC software to input code information DTMF signal setting receive DTMF signal first. After receiving the same code as your setting, radio will show the code by display and ring. Then can speak during effective time. (ID code setting by PC software)

DTMF

In two-way radio systems, DTMF is most commonly used for automation systems and remote control. A common example would be in amateur radio repeaters where some repeaters are activated by sending out a DTMF sequence (usually a simple single-digit sequence).

Table 7.1.	DTMF fre	equencies an	d corresp	onding codes
Table 7.1.		quencies an	u concap	Ullullig Coucs

	1209 Hz	1336 Hz	1477 Hz	1633 Hz
697 Hz	1	2	3	A - MENU
770 Hz	4	5	6	B - 🛋
852 Hz	7	8	9	C - 🔻
941 Hz	*	0	#	D - EXIT

The BTECH UV-2501 / UV-5001 have a full implementation of DTMF, including the A, B, C and D

codes.

The numerical keys, as well as the **scall*, and #*r**, keys correspond to the matching DTMF codes as you would expect. The A, B, C and D codes are located in the MENU, A, ** and EXIT keys respectively (†).

To send DTMF codes, press the key(s) corresponding to the message you want to send while holding down the PTT key.

Inspect function

When the receive DTMF code is the same as the setting inspect code, the receiver will send an ID code. The screen can display this code. This function's settings are controlled by the master ID, and not the receiving station. (inspect code is set by PC software)

Monitor function

When receive DTMF signal is the same as the setting code, receiver will turn on the monitor function for nearby signal. This function's settings are controlled by the master ID, and not the receiving station. (monitor code is set by PC software)

Remote stun

When receive DTMF signal is same as pre-set remote stun code, the receiver will turn off

transmit function, only the receiver (LCD will display remote stun information). Only after receiving the ON code will the transmit function return. This function's settings are controlled by the master ID, and not the receiving station. (remote stun code is set by PC software)

Remote Kill

When receive DTMF signal Is same as pre-set remote kill code, receiver will turn off all functions, and LCD will display remote kill information. Only after receiving the ON code will the radio's function return. This function's settings are controlled by the master ID, and not the receiving station. (remote kill code is set by PC software)

Turn on function

When receive DTMF signal matches the pre-set turn on code, the remote stun or remote kill will be cancelled. This function's settings are controlled by the master ID, and not the receiving station. (remote kill code is set by PC software)

Alarm function

When receive DTMF signal matched the pre-set alarm code, the receiver's alarm function will be turned on. Alarm mode and alarm channel are set by PC software. This function is controlled by the master ID and not the receiving station. (Alarm code is set by PC software). Signal control by

master ID means the function only works by signal code and master ID both confirm. No control by master ID coding format: signal code + #(patch code) + information code. Control by master ID coding format: signal+#(patch code)+ master ID code+#(patch code)+information code

DTMF Transmit by Call Key Setting:

- Select DTMF signal, press [F] Key + [2] Key + [0] Key + [F] Key + UP(DOWN) select DTMF 1. signal + [F] Key save setting.
- Select signal Information code. Press [F] Key + [2] Key + [4] Key + [F] Key + UP(DOWN) select decode signal information code group (1-15) + [F] Key save the setting.(Can use PC software set DTMF code}.
- 3. Press [Call] Key transmit selected DTMF code group at standby.

2TONE Transmit by Call Key Setting

- 1. Press [MENU] Key select 20 OPTSIG, press [F] Key select 2TONE function.
- 2. Press [MENU] Key select 24 S-INFO, press [F] Key select pre-code signal group (1-16). (Can use PC software setting 2TONE)
- 3. Corresponding function will turn on when receive 2TONE signal is same as pre-set 2TONE code
- 4. Press [Call] Key to send 2TONE group code at standby.

5TONE Signal Setting

This radio has a 5TONE coding/decode function. You can use PC software to input signal information code. Set 5TONE signal, then after receive same 5TONE signal code receive and turn on the ring function and display the information code. Speech at effective time is available. (ID code can use PC software to setting)

Press [CALL] Key to transmit 5TONE

- 1. Press [MENU] Key, select 20 OPTSIG press [F] Key select 5TONE function.
- 2. Press [MENU] Key, select 24 S-INFO press [F] Key select pre-code signal group 1-16. (Can use PC software setting 5TONE information code, each group can transmit 3 group 5TONE code for optional).
- 3. Press [CALL] Key transmit pre-set 5TONE code group at standby.

Hand Held Mic Function Keys and Description

- "MENU": Function key
- "UP": Higher frequency
- 3 "DOWN": Lower frequency
- "EXIT": Exit the AB channel switch, alarm function
- "*/SCAN": Scanning function 5
- "#/LOCK": Keyboard lock function
- "0": Number 0
- "1": Number 1
- 9 "2": Number 2
- 10 "3": Number 3
- 11 "4": Number 4
- 12 "5": Number 5
- 13 "6": Number 6
- 14 "7": Number 7
- 15 "8": Number 7
- 16 "9": Number 9



Appendix A. - Menu definitions

0	TDR	Transmit Dual Receive	ON	Allows monitoring of 2 channels. Toggles between Freq A and B. If signal received, RX stays on Freq.
			OFF	Receives on selected channel
1	STEP	Frequency Step Size Setup	2.5 to 25. kHz	2.5, 5, 6.25, 10, 15, 25 kHz
2	SQL	Squelch Level	00 > 09	10 squelch levels 00 = minimum / normally open
2	3 TXP Transmit Power	Transmit Dower	High	Full Power
3		Transmit Power	Low	Reduced Power
4	4 600	Voice Scrambler	ON	Activate Scrambler Function
4	SCR		OFF	Deactivate Scrambler Function
5	тот	Time Out Timer	15 > 600 secs	15 second steps
5	101	Time Out Timer	OFF	Turn of Time out Timer
			30, 60 > 300	Time set that radio will power off after the last
6	APO	Auto Power Off	Minutes	signal has been received.
			OFF	Turn off APO
7	WN	Bandwidth	Wideband	25.0 kHz
	7 WN	Banawiatn	Narrowband	12.5 kHz

8	ABR	LCD Backlight Timer	1 > 50 secs	Backlight duration = 1 > 50
٥	ADN	LCD Backlight Hiller	OFF	Backlight remains ON.
9	BEEP	Keypad Voice Prompt	ON / OFF	Turn ON / OFF keypad voice prompt
10	D DCC	Receive - Digital Coded	D023N > D754I	Squelch opens when proper DCS code is detected
10	R-DCS	Squelch	OFF	No DCS code required
11	R-CTCS	Receive - Analog Tone	67.0 > 254.1 Hz	Squelch opens when proper CTCSS tone detected
11	K-CTCS	Squelch	OFF	No CTCSS tone required
12	T DCC	-DCS Transmit - DCS Code	D023N > D754I	Transmits specified code
12	1-003		OFF	No DCS code transmitted
12		67.0 > 254.1 Hz	Transmits specified tone	
13	T-CTCS	Transmit - CTCSS Code	OFF	No CTCSS tone transmitted
		FST DTMF Side Tone	OFF	No tones are heard through the speaker when
			OFF	transmitted
14	DTMFST		KEY	Only manually keyed DTMF codes are heard
			ANI	Only automatically keyed DTMF codes are heard
			вотн	All DTMF codes are heard
4.5	DCI	December 11 and 12 and	ON	Prevents transmit if active signal on the channel
15	BCL	Busy Channel Lockout	OFF	No lockout
1.0	CC ADD	Add Coop Channel	ON	Add channel to scan list
16	SC-ADD	Add Scan Channel	OFF	Remove channel from scan list
17	DDI CC	Deignitus Coop	ON	Activate Priority Scan
1/	17 PRI-SC	Priority Scan	OFF	Deactivate Priority Scan

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18	PRI-CH	Priority Channel	000 > 199	Channel selected for Priority Scan
			то	(Time Operation) Scan stops when signal detected.
				Scan resumes after a predetermined time.
19	SC-REV	Scan Resume Method	co	(Carrier Operation) Scan stops when signal
13	JC-INE V	Scan Resume Wethou		detected. Scan resumes when signal disappears.
			SE	(Search Operation) Scan stops when signal
			JL JL	detected. Scanning will not resume.
			OFF	No optional signaling
20	OPTSIG	Ontional Signaling	DTMF	DTMF signaling selected
	OPISIG	Optional Signaling	2TONE	2TONE signaling selected
			5TONE	5TONE signaling selected
		Speaker Mute Settings	QT	Squelch opens when any non-OptSig activity is
				present.
21	SPMUTE		AND	Squelch opens when CTCSS/DCS tone is recognized
21	SPIVIOTE			along with the optional signaling.
			OR	Squelch opens when either the CTCSS/DCS tone OR
				the optional signaling is recognized.
			OFF	Do not send
22	22 DTT ID	PTT ID - When to send	ВОТ	Send at Beginning of Transmission
22	PTT-ID	HI-ID - When to send	EOT	Send at the End of Transmission
			вотн	Send at both Beginning and End
23	PTT-LT	PTT ID - Transmit Delay	0 > 30	Set Delay Time

24	S-INFO	Auto Group Dialing	Group Signal Code	1 > 15
24	3-1141 0		Memory	Can only be set with software
			ALARM	Turn on Alarm sound
25	EMC-TP	Alarm Mode	ANI	Send Alarm code and ID code
			вотн	Both of the above
26	EMC-CH	Alarm Channel	000 > 199	Specified Alarm Channel
27	RING-T	Din a Time o	055 1 > 10	OFF - No Ring Time
27	KING-I	Ring Time	OFF, 1 > 10	1 > 10 seconds ring time when signal code received
28	CHNAME	Channel Name	Channel Name Edit	In Channel Mode, edit the Current Name
	29 CA-MDF	A Channel Display Mode	FREQ	
29			СН	In Channel Mode, display the selected format in
			NAME	display A
		B Channel Display Mode	FREQ	
30	CB-MDF		СН	In Channel Mode, display the selected format in
			NAME	display B
			OFF	Separate A/B channel display.
31	SYNC	Sync Displays		Display A and B are synced.
31	STINC	Sync Displays	ON	This allows the upper display to show channel
				Name while the lower shows the Frequency.
			FULL	Full Screen Display
32	PONMSG	Power On Message	MSG	Show Power On Message
			BATT-V	Display Battery Voltage

26 VISIT BAOFENGTECH.COM AND MIKLOR.COM FOR DOWNLOADS AND HELP

			OFF	
		Standby Dasklight Color	BLUE	-
33	33 WT-LFD	Standby - Backlight Color		Select desired color
		Selection	ORANGE	
			PURPLE	
			OFF	
34	RX-LED	Receive - Backlight Color	BLUE	Select desired color
34	NX-LED	Selection	ORANGE	Select desired color
			PURPLE	
			OFF	
25	TVIED	Transmit - Backlight Color Selection	Blue	Calast desired salar
35	TX-LED		ORANGE	Select desired color
			PURPLE	
36	MEMCH	NA CITY OF THE PROPERTY OF THE	000 > 199	Indicates channel number to be stored. "CH" will
36	IVIEIVICH	Memory Channel	000 > 199	appear after channel is stored.
37	DELCH	Delete Channel	000 > 199	Indicates channel number to be deleted. "CH" will
37	DELCH	Delete Chamilei	000 > 199	disappear after channel is deleted.
			OFF	No Offset (simplex)
38	SFT-D	Frequency Shift Direction	+	Plus frequency shift
			-	Minus frequency shift
39	OFFSET	Frequency Shift Offset	00.00 > 69.99	Fraguancy shift in MHz
39	UFFSET	Amount	00.00 > 69.99	Frequency shift in MHz
40		ANI	ANI ID Code	Can only be set with software

41	ANI-L	ANI Length	3, 4, 5	Length of ANI ID code
42	REP-S	Repeater Activation Tone	1000Hz 1450Hz 1750Hz 2100Hz	Audible tone for repeater activation
	REP-M	Repeater Forwarding Mode	OFF	Function OFF
			CARRI	Forward after receiving Carrier
43			CTDCS	Forward after receiving correct CTDCS
			TONE	Forward after receiving correct mono audio (Menu 42)
			DTMF	Forward after receiving assigned DTMF code. (ANI)
	TDR-AB	TDR Return Time Delay	OFF	Function OFF
44			1 > 50 seconds	This is the delay time before returning to the primary channel after secondary signal is clear.
45	STE	Squelch Tail Elimination	OFF	Function OFF
		Requires both radios have function ON.	ON	Eliminates squelch tail at end of transmission.
46	RP-STE	Repeater Squelch Tail Elimination	OFF	Function OFF
46		Requires a repeater using this function.	1 > 10	Delay Time
47	RPT-DL	Repeater squelch tail	OFF	Function OFF
		delay.	1 > 10	Delay Time
48	RESET	Initialize to Factory	VFO	Menu Initialization
48		Defaults	ALL	Menu and Channel Initialization

Appendix B. - Technical specifications

General

General specifications

Specification	Value	
Frequency Range (MHz)	65-108 (Rx only)	
	136-174 (Rx/Tx)	
	400-520 (Rx/Tx)	
Memory channels	200	
Frequency stability	2.5ppm	
Frequency step (kHz)	2.5K/5.0K/6.25K/10.0K/12.5K/25.0K	
Squelch Setup	CTCSS / DCS / 5Tone / 2TONE / DTMF	
Antenna impedance	50 Ohm	
Operating temperature	-20°C to +60°C	
Supply voltage	13.8V DC±15%	
Dimension	UV-2501: 98(w) x 35 (H) x 118 (D)mm; 408g	
	UV-5001: 145(w) x 47 (H) x 190 (D)mm; 1.2kg	
Operating Temperature	-5°F - +140°F	

Receiver

Receiver specifications

	Broadband	Narrow band	
Sensitivity	≤0.25µV	≤0.35µV	
Channel choice	≥70dB	≥60dB	
Intermodulation	≥:65dB	≥60dB	
Spurious Rejection	≥70dB	≥70dB	
Audio response	+1~-3dB (0.3-3KHz)	+1~-3dB (0.3~2.55KHz)	
Signal to noise ratio	≥45dB	≥40dB	
Audio Distortion	≤ 5%		
Audio output power	≥2W@10'Yo		

Transmit

	Broadband	Narrow band	
Output power	25W / 10W (VHF/UHF) UV-2501		
	50W / 10W (VHF/UHF) UV-5001		
Modulation Mode	16K o F3E	11KΦF3E	
Channel Power	≥70dB	≥60B	
Signal to noise ratio	≥40dB	≥36dB	
Parasitic harmonic	≥60dB	≥60dB	
Audio response	+13dB(0.3-3KHz)	+13dB (0.3-2.55KHz)	
Audio distortion	≤ 5%		

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	IN 0504 / IN 5004