Radioddity

QT60

10 Meter Amateur Radio

Instruction Manual

www.radioddity.com

support@radioddity.com

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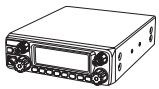
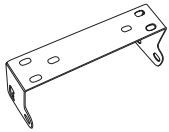
■ STANDARD ACCESSORIES



Radio

Microphone



Mounting Bracket

Microphone Hanger

Non-slip Mat

Screws for bracket

Pads for bracket

Adjusting screws

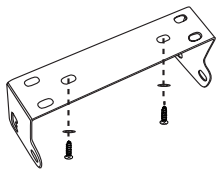
Spare Fuses (10A, 250V)

Self-tapping Screws

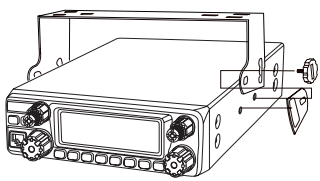
Pads

■ INSTALLATION

Choose the most appropriate location from a simple and practical point of view. If installed in a vehicle, care should be taken to ensure your radio does not obstruct the driver or passengers.

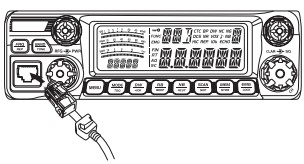


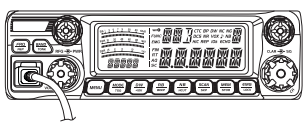
1. Use the Self-tapping Screws and Pads to fix the Bracket to a suitable location.
2. Attach the Adhesive Case Protectors to the inside ends of the Mounting Bracket and insert the Radio. Fit the Adjusting Screws loosely, and choose a suitable angle by moving the Adjusting Screws to one of the 3 positions on the Mounting Bracket.
3. Tighten the Adjusting Screws firmly by hand. Make sure the radio and all accessories are securely mounted.



■ MICROPHONE CONNECTION

1. Insert the microphone connector into the microphone jack.
2. The microphone connector will "click" into place.



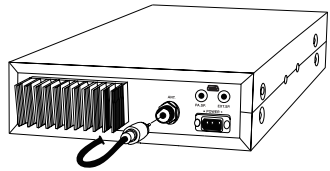


ANTENNA INSTALLATION

Before using this radio, please install an efficient and resonant antenna. Using an antenna that is correctly installed and tuned will enable excellent communication performance.

This radio requires an antenna impedance of 50 ohms, unbalanced.

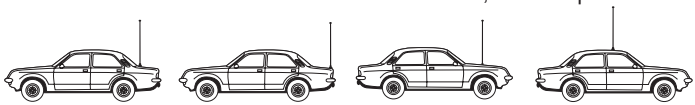
1. Screw the antenna connector into the antenna jack.
2. Grounding the antenna system to ensure best performance of this radio.



WARNING:

- ▲ NEVER transmit without a connected resonant antenna, or a suitable 50 ohm load being connected. Damage to the radio may result.
- ▲ To reduce the risk of electric shock, or radio damage, base station installations should include lightning protection devices.
- ▲ Ask your Anytone dealer for available antenna options.

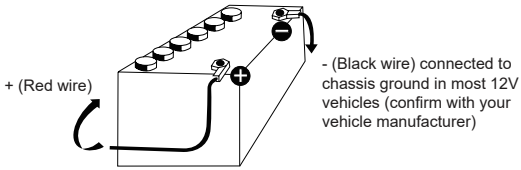
3. A mobile antenna can be mounted in various locations, for example:



POWER CONNECTION

This radio requires a 13.8V (12V) DC power supply. Never connect the radio directly to a 24V DC battery system, as can be found in some vehicles. Please refer to the radio Specifications to ensure your 13.8V DC power supply can provide enough current (amps), otherwise poor performance may occur.

1. Connect the positive (red) power cable to the + terminal of the battery.
2. Connect the negative (black) power cable to the - terminal of the battery.
3. Connect the DC power cable to the transceiver's power supply connector.
   - ▲ Locate the power cable away from high temperature, moisture, and other electrical systems. Ensure it is installed where it cannot be damaged.
   - ▲ It is not recommended to use a vehicle cigar/cigarette lighter socket to power the radio, as it may not supply the correct voltage or current.
   - ▲ Do not remove the fuse holder from the cable.



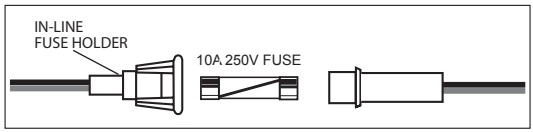
REPLACING FUSES

This radio requires a 10A, 250V fuse.

If the fuse blows, determine the reason, then correct the problem.

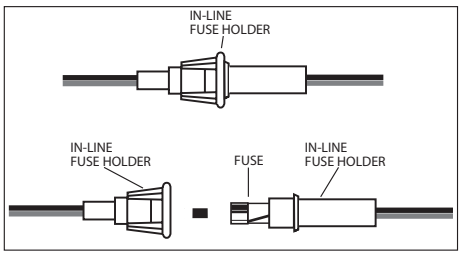
After the problem is resolved, replace the fuse. If newly installed fuses continue to blow, disconnect the power cable and contact your authorized dealer or an authorized service center:

1. Twist the two fuse covers in opposite directions, and open it.



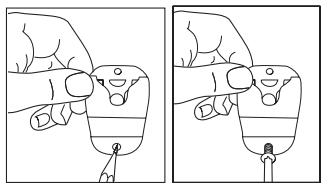
2. Replace the blown fuse with new one, and close the fuse holder.

3. Be sure to only use the correct fuse type, otherwise damage may occur.



INSTALL MICROPHONE HANGER

Choose a location which will not interfere with the driver. Use the supplied self-tapping screws and pads to install the hanger.

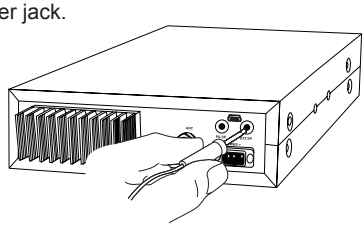


INSTALL EXTERNAL SPEAKER (Optional)

If using an external speaker, please choose an 8 ohm speaker with a 3.5mm mono (double cable) TS type plug.

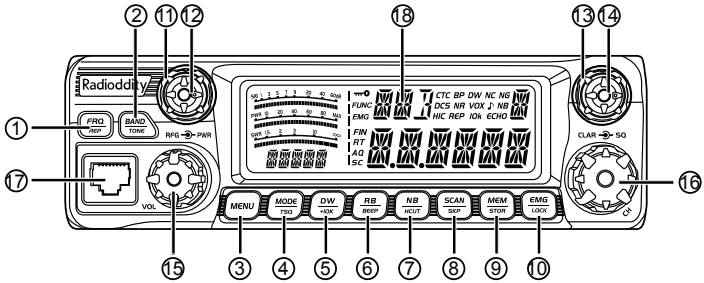
1. Install the external speaker in a suitable place.

2. Plug into the speaker jack.



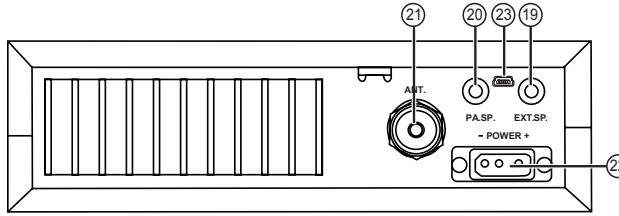
■ GETTING ACQUAINTED

⁘ Front Panel



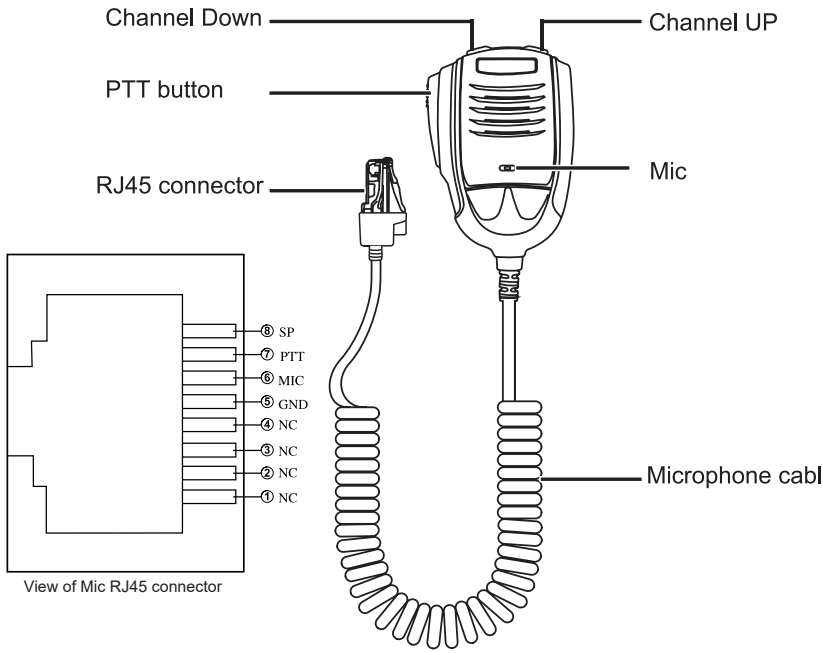
No.	Key	Functions
1	FRQ	Switch between channel mode and frequency mode / Offset setup
2	BAND	Switch band: A-L-VFO / ECHO setup
3	MENU	Menu Function key
4	MODE	Switch mode (FM /AM / USB / LSB / CW / PA) / TSQ setup
5	DW	Dual-watch scan / Frequency +10K function
6	RB	RB function / Beep prompt function
7	NB	NB function / HI-CUT function
8	SCAN	Scan / Scan add / Scan delete
9	MEM	Use, store or delete memory channels
10	EMG	Emergency Channel / Keypad lock.
11	PWR	RF Power Control
12	RFG	RF Gain Control
13	SQ	Squelch Control
14	CLAR	SSB/CW Clarifier Control
15	VOL	Power On/Off; Volume Control
16	CH	Channel Switch, CH Push key
17	--	Microphone Jack
18	--	LCD Display

Rear Panel

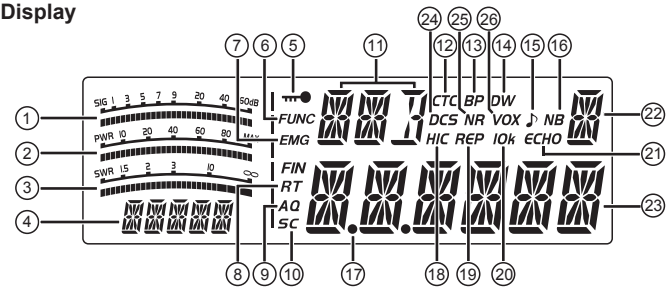


No.	Functions
19	External SP Jack
20	External PA Jack
21	Antenna Jack
22	Power Supply Jack
23	Programming Jack

Microphone



LCD Display



1		RX Signal strength indicator.
2		TX Signal strength indicator.
3		SWR indicator.
4		Model name indicator (can be customized with PC Software).
5		Appears when the Keypad lock function is ON.
6	***FUNC***	Appears when MENU key is short-pressed.
7	***EMG***	Appears when using Emergency channel.
8	***FIN*** ***RT***	Appears when SSB/CW clarifier is enabled.
9	***AQ***	Appears when using ASQ.
10	***SC***	Appears when Scan function is ON.
11		Displays the modulation mode.
12	***CTC***	Appears when CTCSS is enabled.
13	***BP***	Appears when Beep is ON.
14	***DW***	Appears when Dual-watch function is ON.
15	***RB***	Appears when RB function is ON.
16	***NB***	Appears when Noise Blanker is ON.
17	●	Appears when the channel is excluded from the Scan List.
18	***HIC***	Appears when Hi-Cut function is ON.
19	***REP***	Appears when repeater function is ON.
20	***IOk***	Appears when the +10KHz function is ON.
21	***ECHO***	Appears when Echo function is ON.
22		Working band indicator.
23		Display of frequency and channel.
24	***DCS***	Appears when DCS is enabled.
25	***NR***	Appears when Noise Reduction function is ON.
26	***VOX***	Appears when VOX function is ON.

HOW TO USE YOUR RADIO

Power OFF/ON

1. Turn VOL clockwise to switch the radio ON, the radio may emit a beep (if the BEEP Prompt function is enabled). The LCD display will show a frequency or a channel number.
2. Turn VOL anti-clockwise to switch off the radio OFF.

Volume Control

When the radio is turned on, turning VOL clockwise will increase the Volume level. Turning VOL anti-clockwise will reduce the Volume level. Adjust the volume during communication to get suitable level. *Note: On-screen display of the level can be enabled/disabled with PC software.*

RF Power Control

Valid for AM/FM/LSB/USB/CW modes. Turn PWR control to adjust the TX Output Power. Turn the control clockwise to increase Power, and anti-clockwise to reduce Power. *Note: On-screen display of the level can be enabled/disabled with PC software.*

RF Gain Control

When the radio is receiving, turn RFG control to adjust the RF Gain. Turn the control clockwise to increase RF Gain, and anti-clockwise to reduce RF Gain. *Note: On-screen display of the level can be enabled/disabled with PC software.*

SQUELCH Control

When the radio is receiving, turn SQ control clockwise to adjust the Squelch level. *Note: On-screen display of the level can be enabled/disabled with PC software.*

SSB Clarifier Control

When the radio is transmitting or receiving, turn CLAR inner shaft to adjust USB/LSB/CW TX or RX frequency. Turn it clockwise to increase frequency, anti-clockwise to reduce frequency. *Note: See Menu items #14 and #15 for CLAR settings.*

Channel Selection

When the radio is in Channel Mode, turn channel knob to select desired channel. Turn clockwise to increase the channel number, and anti-clockwise to reduce the channel number.

Note: In Channel display mode, pressing the CH【PUSH】key will increase the change rate by 10 times the channel step size (for faster channel stepping).

Frequency Control

1. In Frequency Mode, press CH【**PUSH**】key to adjust the VFO at different frequency steps.
2. When the desired VFO frequency digit is flashing, turn CH clockwise to increase frequency, and turn anti-clockwise to reduce frequency.
3. After a few seconds of no key-presses, the VFO frequency digit will stop flashing, and the radio will return to the STEP setting selected in Menu Item #8 "STEP".

■ KEYPAD FUNCTIONS

【MENU+MODE】

Press【**MENU**】and then press【**MODE**】to enter WX Weather Channel mode.
Press and hold 【**FRQ**】to enter WXVFO mode (136-174MHz FM Receiver).

【FRQ/REP】

Short press【**FRQ**】to switch between Frequency display mode and Channel display mode.

Offset Direction Function

1. Long press【**FRQ**】for 2 seconds to enter the Offset direction function, LCD displays "**REP**";
2. Press CH【**PUSH**】to select offset, turn channel switch to select;
   REPOF: Turn OFF offset direction function;
   REP+: Turn ON + offset direction function, TX frequency>RX frequency;
   REP-: Turn ON - offset direction function, RX frequency>TX frequency;
3. Press CH【**PUSH**】to store and exit.

【BAND/TONE】

Band Selection Function

Short press【**BAND**】to choose band A-B-C-D-E-F-G-H-I-J-K-L-VFO.

Echo Function

1. Long press【**BAND**】for 2 seconds to enter the ECHO function, LCD displays "**ECHO**";
2. Long press【**BAND**】for 2 seconds to turn off the ECHO function.

【MENU】

Long press【**MENU**】for 2 seconds to enter the Menu list.

【MODE/TSQ】

Modulation Mode

Short press【**MODE**】to choose mode FM-AM-USB-LSB-CW-PA.

Note: Modes can be enabled and disabled using the PC software.

CTCSS/DCS (TSQ) Function

Long press【 **MODE** 】for 2 seconds to enter **CTCSS/DCS** setting.

Press CH【**PUSH**】to turn on or off the **CTCSS/DCS** function.

When **CTCSS/DCS** is turned on, the LCD displays **CTC** or **DCS**.

【 DW/+10K 】

Dual-Watch function

1. Short press【 **DW** 】to turn on Dual Watch, LCD displays "**DW**";
2. Short press【 **DW** 】again or press PTT to exit DW mode;

Frequency+10KHz function

1. Long press【 **DW** 】for 2 seconds to turn on the frequency +10KHz function, LCD displays "**10K**";
2. Long press【 **DW** 】for 2 seconds again to turn off the frequency +10KHz function.

【 RB/BEEP 】

RB function

1. Short press【 **RB** 】to turn on RB function, LCD displays "**RB**";
2. Press CH【 **PUSH** 】to select RB frequency, turn the CH channel switch to select. OFF~5.

OFF: Turn off RB function;

3. Press CH 【 **PUSH** 】 to store and exit.

BEEP Prompt function

1. Long press【 **RB** 】for 2 seconds to enter BEEP Prompt function, LCD displays "**BP**";
2. Long press【 **RB** 】for 2 seconds again to turn off BEEP Prompt function.

【 NB/HCUT 】

NB (Noise Blanker) function

1. Short press【 **NB** 】to enable the NB function, LCD displays "**NB**";
2. Short press【 **NB** 】again to turn off the NB function.

HI-CUT function

1. Long press【 **NB** 】for 2 seconds to enable HI-CUT function, LCD displays "**HIC**";
2. Long press【 **NB** 】for 2 seconds again to turn off the HI-CUT function.

【SCAN/SKP】

Scan function

1. Short press【**SCAN**】to enter the Scan function, LCD displays "**SC**";
2. In Scan mode, turning the CH switch will change the Scan direction.
3. Short press【**SCAN**】again to exit.

Add/delete scan list function

1. Long press【**SCAN**】for 2 seconds to add or delete the current channel from the scan list;
2. When LCD displays "●", the current channel is excluded from the Scan list; When the LCD does not display "●", the current channel is added to Scan list.

【MEM/STOR】

Using Memory Channel mode:

1. Short press【**MEM**】to enter Memory Channel mode, turn the CH channel switch to choose memory channel. M1-M99, (total of 99 Memory Channels).
2. Short press【**MEM**】again to exit Memory Channel mode.

Store/Delete Memory Channels:

1. **Store Memory Channel**
   When the radio is not in Memory Channel mode, choose the frequency to be stored, and then hold【**MEM**】enter storage mode, the channel number flashes. Turn the CH switch to choose the location to be stored (M1-M99), then hold【**MEM**】until the channel number stops flashing. The memory is stored.
2. **Delete Memory Channel**
   While in Memory Channel mode, hold【**MEM**】for over 2 seconds, the Memory Channel number flashes. Turn the CH switch to choose the memory to be deleted, then hold【**MEM**】until the channel number stops flashing. The memory is deleted.

【EMG/LOCK】

Choose EMG Channel:

Short press【**EMG**】to use Emergency channel mode, LCD displays "**EMG**".

1. Short press【**EMG**】once to choose CH9;
2. Short press【**EMG**】again to choose CH19;
3. Short press【**EMG**】again to return to the last used normal channel.

Note: See Menu item #20 and #21 for EMG channel settings.

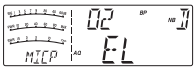
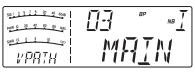
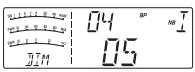
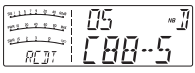
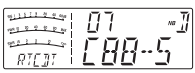
Keypad Lock Function:

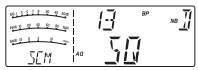
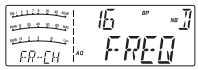
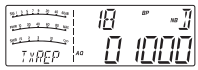
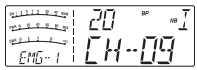
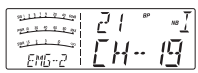
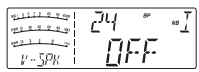
1. Long press【**EMG**】to lock keys, LCD displays " 🔒 ";
2. Long press【**EMG**】again to unlock the keys.

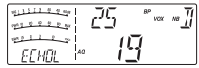
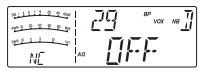
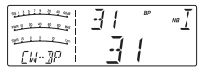
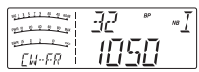
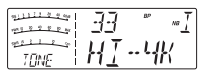
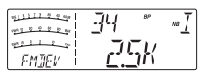
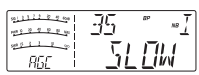
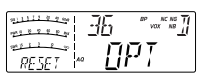
Note: When the Keypad Lock function is turned on, only the PTT button is valid.

■ BACKGROUND FUNCTION MENU OPERATION

1. Press【 **MENU** 】for 2 seconds to enter the Menu list;
2. Turn the CH Channel switch to select the required Menu item;
3. Press CH【 **PUSH** 】to enter the Menu item setup;
4. Turn the CH Channel switch to select wanted setting;
5. Press any other key or wait 5 seconds, the setting will be stored.

No.	Function	LCD Display	Values and Descriptions
1	Microphone Gain		**1-36,** Total 36 levels available; **Default:** 25.
2	Microphone Type		**EL:** Choose EL if using electronic (electret) microphone; **DY:** Choose DY if using dynamic microphone; **Default:** EL
3	Volume Control Path		**MAIN:** The VOL knob controls the internal speaker volume; **MIC:** The VOL knob controls the microphone jack output volume; **BOTH:** the VOL knob controls both the internal speaker and microphone jack output volume; **Default:** MAIN
4	Dimmer		**1-5,** Total 5 levels; **OFF:** Turn off backlight; **Default:** 5
5	CTCSS/DCS code (For RX)		**OFF:** Turn off CTCSS/DCS for RX; C-**XXX:** Choose CTCSS code: 67.0-250.3Hz. Total 38 tones; D-**XXX:** Choose DCS code: 023N-754N. Total 104 codes; **Default**: C-008 (88.5Hz) (*Note: Press SCAN key to start CTCSS/DCS RX scanning).*
6	CTCSS/DCS code (For TX)		**OFF:** Turn off CTCSS/DCS for TX; C-**XXX:** Choose CTCSS code: 67.0-250.3Hz. Total 38 tones; D-**XXX**: Choose DCS code: 023N-754N. Total 104 codes; **Default:** C88-5 (88.5Hz)
7	CTCSS/DCS code (For RX and TX)		**OFF:** Turn off CTCSS/DCS for RX and TX; C-**XXX:** Choose CTCSS code: 67.0-250.3Hz. Total 38 tones; D-**XXX:** Choose DCS code: 023N-754N. Total 104 codes; **Default:** C88-5 (88.5Hz) (*Note: Press SCAN key to start CTCSS/DCS RX scanning).*
8	Frequency Step		**100:** Step size is 100Hz **1K:** Step size is 1KHz **5K:** Step size is 5KHz **10K:** Step size is 10KHz **100K:** Step size is 100KHz **1M:** Step size is 1MHz **Default:** 1KHz *Note:* *The STEP function is valid only when the operating in FREQ mode (Menu item #16) or VFO mode.*
9	Monitor Gain (Talkback)		**1~32, OFF.** Total 33 settings are available; **Default:** OFF. (NOG function disabled)
10	TOT (Time Out Timer)		**1~600s, OFF.** Total of 10 minutes (600s) is available; **Default:** 180s.
11	SWR Protection		**OFF:** SWR Protection function off; **ON:** SWR Protection function on; **Default:** ON. (*Note: The SWR Protection level can be set with PC Software).*

No.	Function	LCD Display	Values and Descriptions
12	Voltage Protection		**OFF:** Voltage Protection function off; **ON:** Voltage Protection function on; **Default:** ON. (*Note: The Voltage Protection levels can be set with PC Software).*
13	Scan Type		**SQ:** Squelch mode scanning; **TI:** Time mode scanning; **Default:** SQ.
14	SSB/CW Clarifier Mode		**OFF:** Clarifier is disabled; **R:** Clarifier shifts RX frequency only; **T:** Clarifier shifts TX frequency only; **RT:** Clarifier shifts both the RX and TX frequency; **Default:** R.
15	Clarifier (Fine) Range		**500Hz:** Adjustable range ±500Hz; **5KHz:** Adjustable range ±5KHz; **Default:** 500Hz
16	Channel / Frequency Mode		**CHAN:** Channel mode; **FREQ:** Frequency mode; **Default:** FREQ.
17	ASQ Control		**01~09:** Total 9 Levels; **OFF**：Turn off ASQ; **Default:** 05.
18	Offset Frequency (Repeater Shift)		**Frequency Offset Range:** 100Hz~5MHz; **Default:** 100KHz.
19	DW (Dual Watch) Channel		The Dual Watch Channel, Mode and Band can be changed: - Turn the CH channel knob to change channel; - Press the MODE key to choose the Mode; - Press the BAND key to choose the band. **Default:** CH-09, AM.
20	EMG-1		The Emergency Channel 1 and Mode can be changed: - Turn the CH channel knob to change channel; - Press the MODE key to choose the Mode. **Default**: CH-09, AM.
21	EMG–2		The Emergency Channel 2 and Mode can be changed: - Turn the CH channel knob to change channel; - Press the MODE key to choose the Mode. **Default:** CH-19, AM.
22	VOX Level		**01~09:** Total 9 Levels for VOX sensitivity; **Default:** OFF.
23	VOX Delay		**01~09:** Total 9 Levels for VOX delay time; **Default:** 04
24	VOX Speaker Mute		**OFF:** Disable VOX with open squelch (with RX audio from speaker); **ON:** Enable VOX with open squelch (with RX audio from speaker); **Default:** OFF (*Note: "ON" can be used to enable basic VOX control for digital modes (FT8/SSTV/RTTY, etc.). Correct setting of the VOX level and VOX delay is required to avoid TX/RX feedback loops).*

25	Echo Volume		**01~32:** Total 32 Levels for echo volume; **Default:**19
26	Echo Delay		**01~32:** Total 32 Levels for echo delay time; **Default:**19
27	Weather Alert		**OFF:** Disable Weather Alert function; **ON:** Enable Weather Alert function; **Default:** OFF
28	WX Channel Squelch		**01~09:** Total 9 Levels; **OFF：** Squelch open; **Default:** 03 *(Note: WXSQL is also active in WX VFO mode, 136-174 MHz RX).*
29	RXNR		**01~05:** Total of 5 Levels for RX Noise Reduction; **OFF:** Turn off RX Noise Reduction; **Default:** OFF
30	TXNR		**01~05:** Total of 5 Levels for TX Noise Reduction; **OFF:** Turn off TX Noise Reduction; **Default:** OFF
31	CW Volume (Sidetone)		**01~63:** Adjusts the CW Sidetone (volume). Total of 63 levels; **OFF:** CW Sidetone disabled. **Default:** 31
32	CW Frequency (Sidetone)		**300~3000(Hz):** Adjusts the CW Sidetone Frequency from 300Hz-3KHz, the shift step is 10Hz; **Default:** 1050Hz *(Note: You can use Clarifier offsets to match CW sidetone frequencies).*
33	SSB TX Audio Bandwidth		**HI-4K：** 4KHz TX audio bandwidth; **LO-3K：** 3KHz TX audio bandwidth; **Default：** HI-4K
34	FM Deviation		**2.5K:** 2.5KHz FM TX deviation; **4.0K:** 4.0KHz FM TX deviation; **Default:** 2.5K
35	AGC (S-Meter Response)		**SLOW：** AGC Slow response; **FAST：** AGC Fast response; **Default：** SLOW
36	Reset		**OPT:** Settings/Functions reset to defaults; **ALL:** Channels and Settings/Functions reset to defaults; **Default:** OPT

■ SPECIFICATIONS

GENERAL	
Frequency Range	28.000-29.700MHz (Programmable)
Frequency Bands	A/B/C/D/E/F/G/H/I/J/K/L + VFO
Channels	40 default channels in each band (a total of 60 programmable channels per band)
Frequency Control	Phase-Locked-Loop Synthesizer
Frequency Step	100Hz,1KHz, 5KHz,10KHz,100KHz,1MHz
Frequency Tolerance	±5.00ppm
Temperature Range	-20℃ to +50℃
Microphone	With push-to-talk, UP/DN and coiled cord
Input Voltage	13.8V
Dimensions (in mm)	250(L)x200(W)x60(H)
Weight	1.5kg
Antenna Connector	UHF, SO239

TRANSMITTER	
Power Output	AM PEP: 60W / FM: 50W / SSB: 60W(PEP)
Current Drain	10A maximum (with modulation)
Modulation	AM/FM/USB/LSB/CW
Inter-modulation Distortion	SSB: 3rd order, more than -25dB; 5th order, more than -35dB
SSB Carrier Suppression	55dB
Unwanted Sideband	50dB
Frequency Response	AM/FM: 300 to 3000Hz SSB: 300 to 3000Hz/4000Hz
Output Impedance	50 ohms, unbalanced

RECEIVER	
Sensitivity	SSB: 0.25μV for 10dB(S+N)/N at greater than 1/2-watt of audio output AM:1.0μV for 10dB(S+N)/N at greater than 1/2watt of audio output FM: 1.0μV for 20 dB (S+N)/N at greater than 1/2 watt of audio output
Adjacent-Channel Selectivity	AM/FM: 60dB SSB: 70dB
Image Rejection	More than 65dB
IF Frequency	AM/FM: 10.695MHz 1st IF, 455KHz 2nd IF SSB: 10.695MHz
RF Gain Control	45dB adjustable for optimum signal reception
Automatic Gain Control (AGC)	Less than 10dB change in audio output for inputs from 10 to 100,000 microvolt.
Squelch	Adjustable; threshold less than 1.0μV. Automatic Squelch Control(only AM/FM)1.0μV
Audio Output Power	3 watts into 8 ohms
Frequency Response	AM/FM: 300 to 3000Hz SSB: 300 to 3000Hz
Built-in Speaker	8 ohms, round.
External Speaker(Not Supplied)	8 ohms; disables internal speaker when connected.

WX channels	
WX-01	162.400MHz
WX-02	162.475MHz
WX-03	162.425MHz
WX-04	162.450MHz
WX-05	162.500MHz
WX-06	162.525MHz
WX-07	162.550MHz

Note: 40 RX channels (VHF FM mode) can be programmed between 136-174MHz

■ CTCSS/DCS CHART

⌘ 38 SETS ANALOG FRQ LIST(CTCSS)

No.	Freq.(Hz)	No.	Freq.(Hz)	No.	Freq.(Hz)	No.	Freq.(Hz)
01	67.0	11	97.4	21	136.5	31	192.8
02	71.9	12	100.0	22	141.3	32	203.5
03	74.4	13	103.5	23	146.2	33	210.7
04	77.0	14	107.2	24	151.4	34	218.1
05	79.7	15	110.9	25	156.7	35	225.7
06	82.5	16	114.8	26	162.2	36	233.6
07	85.4	17	118.8	27	167.9	37	241.8
08	88.5	18	123.0	28	173.8	38	250.3
09	91.5	19	127.3	29	179.9		
10	94.8	20	131.8	30	186.2		

⌘ 104 SETS DIGITAL FRQ LIST(DCS)

Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)
001	023	027	152	053	311	079	466
002	025	028	155	054	315	080	503
003	026	029	156	055	325	081	506
004	031	030	162	056	331	082	516
005	032	031	165	057	332	083	523
006	036	032	172	058	343	084	526
007	043	033	174	059	346	085	532
008	047	034	205	060	351	086	546
009	051	035	212	061	356	087	565
010	053	036	223	062	364	088	606
011	054	037	225	063	365	089	612
012	065	038	226	064	371	090	624
013	071	039	243	065	411	091	627
014	072	040	244	066	412	092	631
015	073	041	245	067	413	093	632
016	074	042	246	068	423	094	654
017	114	043	251	069	431	095	662
018	115	044	252	070	432	096	664
019	116	045	255	071	445	097	703
020	122	046	261	072	446	098	712
021	125	047	263	073	452	099	723
022	131	048	265	074	454	100	731
023	132	049	266	075	455	101	732
024	134	050	271	076	462	102	734
025	143	051	274	077	464	103	743
026	145	052	306	078	465	104	754

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