

The **COM**®

Owner's Manual

COM-DB90 Mobile Radio

Premium UTV Communication System



Congratulations on your purchase and welcome to the COMplete Radio InterCOM
COMmunication family. We thank you for your purchase with care the unit should give you good
service.

Please read these instructions carefully, by doing so you will get full use of the products

This Manual is broken up into parts:

1. Radio manual
2. Intercom manual

Email if you have any questions or concerns that this manual does not address.

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COM-DB90 Dual Band Mobile Radio

Features

TheCOM-DB90 mobile 2-way radio is unique for its compact body, powerful output and frequency range design. It's also designed with new and personalized operation menu to give you easy-to-use and exceptional operation experience. We believe its mini size and cost-effective price will allow the off-road community the ability to install the radio in more locations without having to modify their vehicles.

Before operation and to obtain the best performance, we recommend that you read this user manual carefully to become familiar with the features.

- Frequency range VHF 136-174 MHz / UHF 400 – 480 MHz
- Color Display
- Simple plug and play connection to the S4S intercom

Info & Warnings

IMPORTANT! Changes or modifications to this unit not expressly approved by TheCOM could void your right to operate this unit. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the mobile radio to exceed those limitations. Any adjustment to your radio must be made by qualified technicians.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;

1. this device does not cause any harmful interference, and
2. this radio must accept any interference that may cause undesired operations.

Use only “TheCOM” supplied or approved accessories, cables and headsets.

Turn off your radio prior to entering any area with flammable materials. Do not operate or turn on your mobile radio at a gas station or while fueling your vehicle.

Do not mount your radio in the area over an air bag deployment area if equipped or in a location that obstructs the driver's sight.

Do not expose the radio to direct sunlight for prolonged periods of time, nor place it close to a heat source.

Do not transmit for long intervals, as it may overheat the mobile radio.

Do not pressure wash your COM for any reason. To clean, blow off as much dust and debris then wipe with a damp cloth while the unit is in the OFF position. Allow to dry for several hours then operations may resume.

If the unit emits smoke or an odor, you should immediately cut off the power supply. Then contact us at info@utvcom.com.

Protect your unit as much as possible from dusty, damp and wet conditions and never submerge TheCOM

Use the correct power supply. TheCOM is designed to operate at about 12.0 to 13.8V; do not use 24V power supply to TheCOM or mobile radio.

If there's any electromagnetic interference, please keep the mobile radio away from the sources such as TV set, engine generator etc.

FCC Notice

The COM-DB90 operates on UHF/VHF frequencies, which require a Federal Communications Commission (FCC) license (learn more here <https://www.fcc.gov/>). You must be licensed prior to operating. Serious penalties may result from unlicensed use or operation in violation of FCC rules, as stipulated in the Communications Act's Sections 501 and 502 (amended). You will be issued a call sign by the FCC that should be used for station identification when operating your radio. You should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other users, and being prudent with the length of your transmission time.

To obtain a license or ask questions about the license application, contact the FCC at 1-888-CALL FCC or go to the FCC's website: <https://www.fcc.gov/>

Request form 605.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation

The scanning receiver in this equipment is incapable of tuning, or readily altered, by the user to operate within the frequency bands allocated to the Domestic public Cellular Telecommunications Service in Part 22.

WARNING: Modification of this device to receive cellular radiotelephone service signals is prohibited under FCC rules and federal law.

RF Energy Exposure

The COM-DB90 is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy.

- United States Federal Communications Commission (FCC), Code of Federal

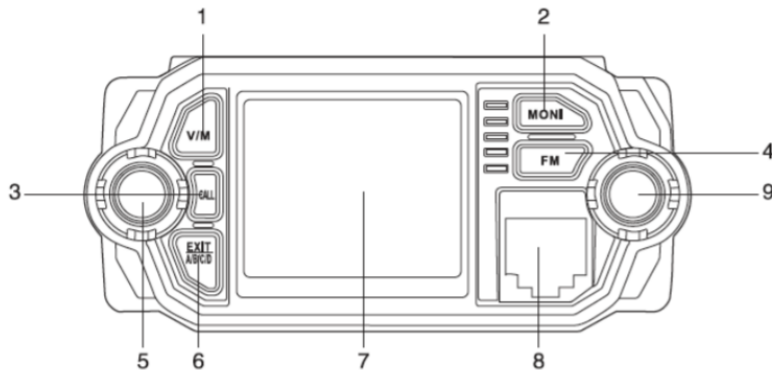
Regulations: 47 CFR part 2 sub-part J

- To control your exposure and ensure compliance with the general population or uncontrolled environment exposure limits, transmit no more than 50% of the time. The radio generates measurable RF energy exposure only when transmitting.
- The consumer must maintain a minimum safe separation distance of 2 ft from the antenna when transmitting.

Getting to Know The COM-DB90

Please check the packaging of your radio for any signs of damage. Carefully open the box, if you find the radio or the included accessories are damaged or lost, immediately contact your dealer or us at info@utvcom.com

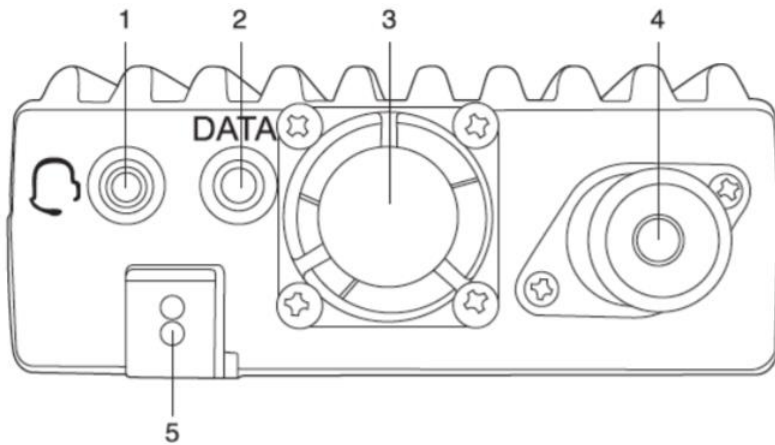
Front of the Radio



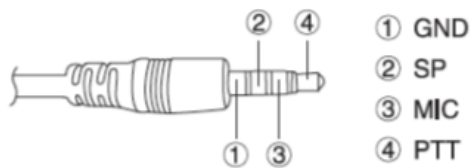
1. V/M Mode Switch (Channel/Frequency)
2. Monitor (Moni) function
3. Call key
4. FM radio function key
5. Power, On/Off (Press) & Volume Knob (Rotate)
6. Exit Menu, Toggle A/B/C/D bands
7. Display screen
8. RJ-45 Microphone Connector
9. Channel Selector (rotate) Menu Knob (Press) Confirm Key (Press)



Back of the Radio



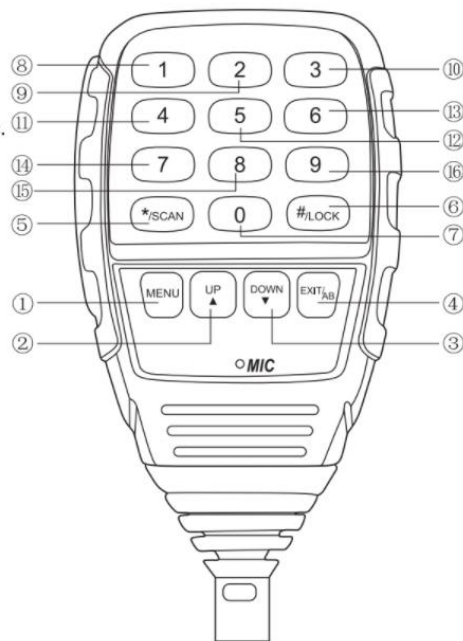
1. TRRS 3.5 mm connection for S4S intercom connection – Pinout diagram below:



2. DATA, Programming Jack TRS 3.5 mm: (Restricted to comply with FCC Part 90)
3. Cooling Fan
4. SO-239 RF Antenna Connector: Connects to PL-259 Antennas
5. 12V DC Power supply (13.8 Volts – 7 Amps peak)

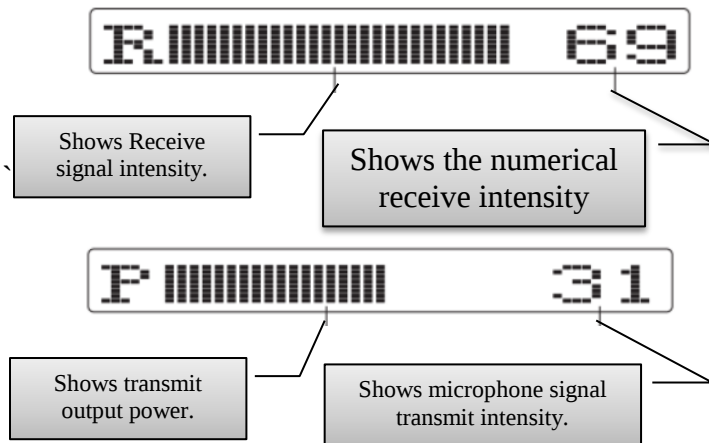
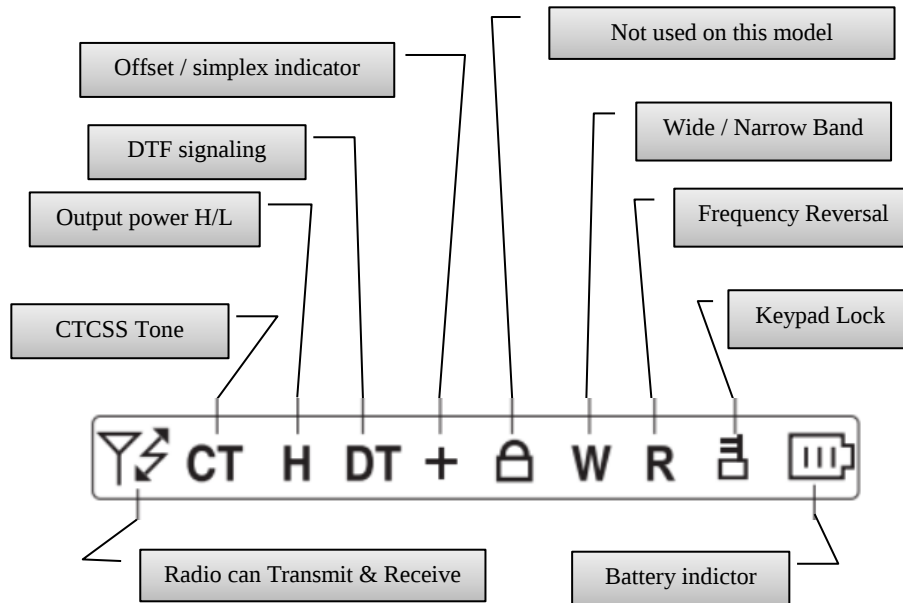
Hand Mic

1. "MENU" - Function key VFO/MR Toggle (Long Press)
2. "UP": - Toggle up
3. "DOWN" - Toggle down
4. "EXIT" - Exit the ABCD band selection, activate alarm (Long Press)
5. "*/SCAN" - Scanning function
6. "#/LOCK" - High / Low Power Toggle, Keypad Lock (Long Press)



7. "0" - Number 0
8. "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 8
16. "9" - Number 9

Screen Icons



Antenna

Do not transmit without an antenna attached to the mobile radio. This can cause stress and harm to the internal transmitter and damage the mobile radio.

Choose an antenna suitable for transmitting on user frequencies with an impedance of 50 ohm. If an antenna is not properly tuned for the frequency you transmit on this could cause reflective damage to the radio. Target an SWR of 1.5:1 and never exceed a SWR of 2.5.

Mounting Tips

It is best to mount the antenna to the vehicle's roof, roll bar or similar location. Specific installation requirements vary between vehicles. Use the following guidelines to install the antenna.

1. Mount the antenna as high on the vehicle as possible. The higher the better.
2. Metal surfaces covered by fiberglass or vinyl may affect radio range. Avoid these locations.
3. If possible, mount the antenna in the center of whatever surface you choose.
4. Coax cable and connectors should be rated for 50 ohm.
5. Choose the proper length coax cable for your application. We offer many lengths that typically fit most UTV's.
 - a. If you have extra length, try to re-rout the coax to use up the extra length.
 - b. Never coil the coax in a coil or coil the extra around the antenna.
6. Route the antenna cable through an accessible entry point, such as a firewall grommet or kick panel.
7. When routing the coax cable, avoid noise sources that create RF energy, such as the ignition system, gauges, power wires, rotation shafts, etc.
8. Prevent cable damage, such as pinching the coax, sharp edges or right angles. Use sweeping curves and avoid pinch points between seams. Make use of existing gaskets, grommets and weather stripping to protect the cable along its route or drill relief holes.
9. Additional grounding of the coax cable may be necessary. To achieve this simply connect a ground wire to a ground location on the vehicle (such as the bodies bare metal) then to the underside of the base of the NMO connector.

Antenna Ground Wire

Place the antenna ground wire against the bottom side of the NMO connector. Make sure each terminal is in intimate connection with the NMO connector and bare steel on the chassis of the vehicle.



Red terminal to the bottom of the NMO

Blue terminal to the nearest chassis ground

Powering TheCOM

It is preferred that TheCOM be connected (the positive lead RED wire) directly to the positive post of the vehicle's battery. If this is not available a fuse block may be used. If external noises are heard through the radio such as "alternator wine" (could be from pumps, switches, lights, clutch fans, other accessories) it is recommended that the power be re-rout directly to the battery posts.

Turning on the Mobile Radio

Press and hold the volume knob down until the display lights up.

Turing off the Mobile Radio

Press and hold the volume knob down until the display powers down.

Operations

Adjusting the volume

The volume control on the mobile radio affects the overall volume to TheCOM users. It is typically set a half a turn from the bottom. Turning the volume clockwise will increase the radio volume and counterclockwise will lower the volume. It is best to adjust the volume while someone else is broadcasting. For best results we suggest setting the radio to the local weather channel (see below common channels for weather frequency) and slowly turn the radio volume clockwise until desired volume is clear. Sometimes backing the volume on the radio slightly will give a clearer communication from outside signals. After the radio is set, fine tune the volume with the individual volume controls found on the intercom.

Receiving & Transmitting a Call

Both the receiving radio and the transmitting radio need to be on the same frequency (channel) that includes privacy codes (CTCSS or DCS codes).

To make a call, press and hold the PTT button wait a moment before speaking and speak into the microphone. If using a headset, make sure that mic is right against your lips. If using a hand mic, hold the hand mic about 1-2 inches from your mouth.

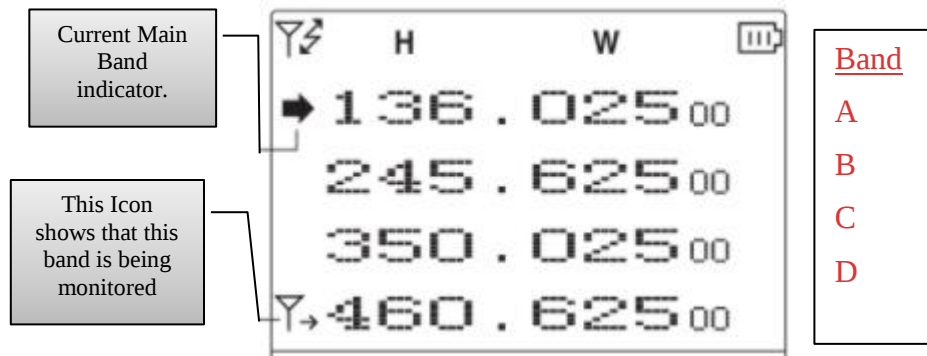
To receive a call release the PTT and listen for the transmission to come through. Adjusting your volume as necessary.

Selecting a Channel

Turn the selector knob to select your desired channel. Alternatively, the up and down arrows on the mic will change the channel as long as the keypad is not locked. Additional frequencies are programed into the radio like the weather channels, but they are receive only.

Toggling between Bands A/B/C/D

Pressing the “Exit/ABCD” will toggle between the four different band on the radio.



Function Menu

Note that due to part 90 requirements many of the menu functions have been restricted or deactivated.

To enter the menu press the knob to the right of the screen. Menus may be quickly jumped to by typing the menu number in on the hand mic.

Menu #	Menu Name	Description	Secondary Menu	Notes
0	TMR	Transmit Multi Receive - This mode selects what displays are monitored in the background besides the primary selected channel	Off	Disable TMR
			M+A	Main band + A band standby
			M+B	Main band + B band standby
			M+C	Main band + C band standby
			M+D	Main band + D band standby
			M+A+B	Main band +A & B band standby
			M+A+C	Main band + A & C band standby
			M+A+D	Main band + A & D band standby
			M+B+C	Main band + B & C band standby
			M+B+D	Main band + B & D band standby
			M+C+D	Main band + C & D band standby
			M+A+B+C	Main band + A, B & C band standby
			M+A+C+D	Main band + A, C & D band standby
			M+B+C+D	Main band + B, C & D band standby
			A+B+C+D	All bands are monitored on standby
1	STEP	Frequency Step Size Setup	2.50k	In frequency step in VFO (frequency) mode, press (up) and (down) to select step figure.
			5.00k	
			6.25k	
			10.00k	
			12.50k	
			25.00k	
2	SQL	Squelch Level	00 > 09	10 Squelch levels
				00 = minimum / normally open
3	TXP	Transmit Power	High	Full Power ~20W
			Low	Reduced power ~7W
4	SCR	Scrambler	On	Scrambler Function Enabled
			Off	Scrambler Function Disabled
5	TOT	TX Time Out Timer	15 > 600 sec	15 Second Steps
6	APO	Auto Power Off	30, 60 > 300 Minutes	Time set that the radio will power down after the last signal is received
			Off	Turns off APO option
7	WN	Bandwidth	Wide Band	25.0 kHz

Menu #	Menu Name	Description	Secondary Menu	Notes
			Narrow Band	12.5 kHz
8	ABR	Unused Setting	--	--
9	Beep	Keypad audible tone	On/Off	Turn On/ Off keypad tone
10	R-DCS	Receive - Analog Tone Squelch	D023N > D754I	Squelch opens when proper DCS code is detected
			Off	No DCS code required
11	R-CTCS	Receive - Analog Tone Squelch	67.0 > 254.1 Hz	Squelch opens when proper CTCSS tone is detected
			Off	No CTCSS tone required
12	T-DCS	Transmit - DCS Code	D023N > D754I	Transmits specified code
			Off	No DCS codes transmitted
13	T-CTCS	Transmit - CTCSS Code	67.0 > 254.1 Hz	Transmits specified code
			Off	No CTCSS codes transmitted
14	DTMFST	Determines when DTMF codes are heard through speaker	Off	No DTMF tone heard
			DS-ST	Only manually keyed DTMF codes are heard
			ANI-ST	Only automatically keyed DTMF codes are heard
			DT-ANI	All DTMF codes are heard
15	BCL	Busy Channel Lockout	On	Prevents transmit if active signal on the channel
			Off	No lockout
16	SC-ADD	Add Scan Channel	On	Add channel to scan list
			Off	Remove channel from scan list
17	SC-REV	Scan Resume Method	TO	(Time Operations) Scan stops when a signal is detected the scan resumes after approximately 5 seconds (even if the channel is still active).
			CO	(Carrier Operation) Scan stops when a signal is detected. Scan resumes when signal disappears
			SE	(Search Operation) Scan stops when signal is detected. Scanning will not resume.
18	OPTSIG	Optional Signaling	Off	No Optional signaling
			DTMF	DTMF signaling selected
			2 Tone	2 Tone signaling selected
			5 Tone	5 Tone signaling selected

Menu #	Menu Name	Description	Secondary Menu	Notes
19	SPMUTE	Speaker Mute Setting	QT	Squelch opens for CTCSS/DCS tones only.
			AND	Squelch opens when CTCSS/DCS tone is recognized along with the optional signaling.
			OR	Squelch opens when either the CTCSS/DCS tone or the optional signaling is recognized.
20	PTT-ID	PTT-ID- When to send	Off	Do not send
			BOT	Send at beginning of transmission
			EOT	Send at the end of transmission
			Both	send at both beginning and end
21	PTT-LT	PTT ID - transmit Delay	0 > 30	Set delay time before transmitting PTT-ID
22	S-INFO	Auto Group Dialing	Group Signal Code Memory	1 > 15 (Can only be set with software)
23	EMC-TP	Alarm Mode	ALARM	Turn on alarm sound
			ANI	Send alarm code and ID Code
			Both	Both of the above
			Off	Alarm mode completely disabled
24	EMC-CH	Alarm Channel	000 > 199	Specified Alarm Channel
25	SIG-BP	Signal Beep	On	Pager ring at reception of matching 2Tone / 5Tone / DTMF
			Off	
26	CHNAME	Channel Name edit		Channel Mode, edit the current name
27	CA-MDF	Channel A Display Mode	FREQ	In channel mode, display the selected format in display A
			CH	
			NAME	
28	CB-BDF	Channel B Display Mode	FREQ	In channel mode, display the selected format in display B
			CH	
			NAME	
29	CC-MDF	Channel C Display Mode	FREQ	In channel mode, display the selected format in display C
			CH	
			NAME	
30	CD-BDF	Channel D Display Mode	FREQ	In channel mode, display the selected format in display D
			CH	
			NAME	
31	LANGUA	Language	English	Screen prompts display language

Menu #	Menu Name	Description	Secondary Menu	Notes
			Chinese	
32	AUTOLK	Auto Keypad Lock	On	Keypad Auto Lock Enabled
			Off	Keypad Auto Lock Disabled
33	MAINFC	Main LCD display foreground color (Text)	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
34	MAINBC	Main LCD display background color	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
35	MENUFC	On screen menu foreground color (text)	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
36	MENUBC	On screen menu background color	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
37	STA-FC	Status (Top) bar display foreground color (text)	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
38	STA-BC	Status (Top) bar display background color	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
39	SIG-FC	Bottom bar display foreground color (text)	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
40	SIG-BC	Bottom bar display background color (text)	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
41	RX-FC	Main LCD receiving color foreground color (text)	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
42	TX-FC	Main LCD TX color foreground color (text)	Select Color	Black, White, Red, Blue, Green, Yellow, Indigo, Purple, Gray
43	TXDISP	Transmit Display	Power	Display Power level on bottom display bar

Menu #	Menu Name	Description	Secondary Menu	Notes
			MIC-V	Display Mic Audio level on bottom display bar
44	MEM-CH	Program Channel	000 > 199	Indicates channel number to be stored to memory
45	DEL-CH	Delete Channel	000 > 199	Indicates channel number to be deleted from memory
46	SFT-D	Frequency shift direction	Off	No offset (simplex)
			+	Plus frequency shift
			-	Minus frequency shift
47	OFFSET	Frequency shift offset amount	00.00 > 69.99	frequency shift in MHz
48	ANI	ANI ID Code		Can only be set with software
49	ANI-L	ANI Length	3, 4, 5	Length of ANI ID code
50	REP-S	Repeater Activation Tone	1000Hz, 1450Hz, 1750Hz, 2100Hz	Audible tone for repeater activation
51	REP-M	Repeater forwarding Mode	Off	Function Off
			CARRI	Forward after receiving carrier
			CTDCS	Forward after receiving correct CTDCS
			TONE	Forward after receiving correct mono audio (Menu 42)
			DTMF	Forward after receiving assigned DTMF code (ANI)
52	TMR-MR	TMR - Return time delay to primary channel; this is the time delay before returning indicator to the primary channel for TMR (Menu # 0).	Off	Function Off - Transmits always on Primary channel
			1 > 50 seconds	This is the delay time before returning to the primary channel after secondary signal is clear
53	STE	Squelch tail elimination requires both radios to have function "ON"	Off	Function Off
			On	Eliminates squelch tail at end of transmission
54	RP-STE	Repeater Squelch Tail Elimination Requires a repeater using this function	Off	Function Off
			1 > 10	Delay time (sec)
55	RPT-DL	Repeater squelch tail delay	Off	Function Off
			1 > 10	Delay time (sec)
56	DTMF-G	DTMF Gain / Audio level	0 > 60	0 = Lowest Audio Gain; 60 = Highest Gain
57	PONKEY	Turn on radio by connected power supply	Off	After energizing, radio powers on automatically

Menu #	Menu Name	Description	Secondary Menu	Notes
			On	After energizing, you must press the power button to power on
58	RESET	Reset the radio to factory defaults	VFO	Menu reset
			ALL	Menu and channel reset

Other Settings and Options

Programing

Adding or removing frequencies and programing must comply with FCC regulations.

GMRS channels 001 – 022 are programed to receive only. See the frequency chart for more information.

Keypad Lock-out

Hold the microphone “#” for 2-3 seconds to turn on / off the keypad lock-out. Once locked a lock icon appears in the radio menu bar.

PTT ID

Requires programing software to change the PTT ID code. Refer to Function menu to display PTT ID.

Scanning Modes

The scanner is configurable to one of three ways of operation: Time, carrier or search, each of which is explained in further details in their respective section below.

1. Press the (Menu) key to enter the menu.
2. Enter “17” on your numeric keypad to come to scanner mode.
3. Press the (Menu) key to select.
4. Use the and (UP ↑) and (DOWN ↓) keys to select scanning mode.
5. Press the (MENU) key to confirm and save.
6. Press the (EXIT/AB) key to exit the menu.

See the function menu for the different scanning mode options and how each function operates.

Troubleshooting TheCOM-DB90

If you experience difficulties using your COM we have many technical help references, videos, blogs and self-help on our website <https://utvocm.com> or the below chart can help t correct common operation problems. If you have a problem which you believe requires service, please call first and speak with a service technician at (208) 779-2891. Many problems can be remedied over the phone without returning the unit for service.

Issue	Check
Radio will not power on	Check the vehicles battery to ensure that it is properly working and is charged
	Check the inline fuses and replace if needed.
	Check the input power connections, replace if needed.
Keypad is not responding or radio is not changing	Make sure the keypad and radio is not locked (look for the lock icon in the radio display). Refer to the function menu to unlock the keypad/radio.
	Power down the radio and power it back on
	Make sure the hand mic is plugged in the RJ-45 all the way.
Cannot transmit	Make sure you are on a transmittable frequency (see chart). All other channels are to comply with FCC Part 90
	If you have an intercom, check that your PTT is connected properly into the intercom “PTT” port and that intercom is connected to the radio via the proper TRRS (22 gauge wire shielded or larger) jumper wire
Cannot Receive	Verify both radios are on the same frequency / channel.
	Make sure you are in range of the other radio, repeater or incoming transmission.
	Make sure your signal is not obstructed by mountains, buildings or other obstructions.

Specifications

Technical Specifications

Description	Spec
Frequency Range (MHz)	VHF: 136-174 MHz Rx/Tx UHF: 400-480 MHz Rx//Tx
Memory Channels	200
Frequency Stability	±2.5ppm
Frequency Step (kHz)	12.5k
Squelch Setup	CARRIER / CTCSS / DCS / 5Tone / 2 Tone / DTMF
Antenna Impedance	50 Ohm
Operating Temperature	-20 °C (-4 °F) to 60 °C (140 °F)
Supply voltage	13.8V DC±15%
Dimension	5.7(W) x 1.85 (H) x 7.5 (D)in
Weight	998 g (2.2 lb)
Antenna Gain	0dBi (Typical), 3.5dBi (Max)

Receiver Specifications

Description	Narrow Band
Sensitivity	≤ 0.35 μV
Channel Choice	≥ 60 dB
Intermodulation	≥ 60 dB
Spurious Rejection	≥ 70 dB
Audio response	+1~-3dB (0.3-2.55KHz)
Signal to noise ratio	≥ 40 dB
Audio distortion	≤ 5%
Audio output power	≥ 2W ± 10%

Transmit Specifications

Description	Narrow Band
Output Power	20W UHF / 25W VHF
Modulation Mode	11KΦF3E
Channel Power	≥ 60 dB
Signal to Noise Ratio	≥ 36 dB
Parasitic Harmonic	≥ 60 dB
Audio Response	+1~-3dB (0.3-2.55KHz)
Audio Distortion	≤ 5%

For radio licensing help: <https://www.fcc.gov/>

We hope you enjoy your new **COM**, We offer self-help tech support on our website at <https://utvcom.com/issue-resolution/> or please contact The**COM** if you require any additional help. info@utvcom.com

The**COM** is a registered trademark of Stingray UTV LLC



WARNING: Our Stingray UTV LLC radio (COM-DB90) generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as “Occupational Use Only”, meaning it must be used only during the course of employment by individuals aware of the hazards and the ways to Minimize such hazards.

This radio is NOT intended for use by the “General Population” in an uncontrolled environment. This radio has been tested and complies with the FCC RF exposure limits for “Occupational Use Only”. In addition, our Stingray UTV LLC radio (COM-DB90) complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

- IEEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields-RF and Microwave.



CAUTION: The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to as-sure that this radio operates with the FCC RF exposure limits of this radio. Electromagnetic Interference/Compatibility

During transmissions, Stingray UTV LLC radio (COM-DB90) generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

Occupational/Controlled Use The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

RF Exposure Warning Statements:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 149.5cm between the radiator & body.