

# G15

► Instruction Manual



IP67  
WATER  
PROOF

450-  
520  
MHz

**UHF PORTABLE RADIO** | 16 Programmable Channels. Waterproof. 5W Power.

**MIDLAND**<sup>®</sup>

# Index

Programming software (optional)	2
Content	2
Main characteristics	2
Coverage and Range	2
<b>Main controls and parts of the radio</b>	<b>3</b>
<b>Operations</b>	<b>4</b>
Power on/off and volume adjustment	4
Transmission	4
Monitor/Scan	4-5
Squelch	5
Battery recharge	5-6
Roger Beep (End transmission tone)	6
Keypad Beep	6
Vox	6
Maintenance	6-7
<b>Technical specifications</b>	<b>8</b>
<b>Troubleshooting</b>	<b>9-10</b>

*Thanks for choosing Midland! G15 is a portable transceiver that has many uses in hospitality, recreation and most workplace situations.*

### **Midland G15 is a 16 channel, programmable UHF transceiver.**

Combining the latest technology in radio communication along with a sturdy mechanical frame, **G15** is the ideal and effective solution for the professionals who need to stay in touch with the working team (in construction sites, buildings, shows, trade fairs or hotels) or for leisure users that just want to keep up with friends and family.

### **Programming software (optional)**

Thanks to Midland Programming software, your dealer can set your private commercial channels or selected UHF CB frequencies.

### **Content**

- 1 G15 transceiver
- 1 belt clip
- 1 wall adaptor
- 1 1600mAh Li-ion rechargeable battery pack
- 1 desktop charger

### **Main characteristics**

- **IP67 certified:** the housing protects the device from dust and from water infiltration up to a depth of 1 metre for 30 minutes
- Output power: ≤ 5 Watts
- Channel spacing: 12.5KHz
- Scan
- Vocal tuning
- Roger Beep
- Battery save
- Monitor
- Squelch
- Vox

### **Coverage and Range**

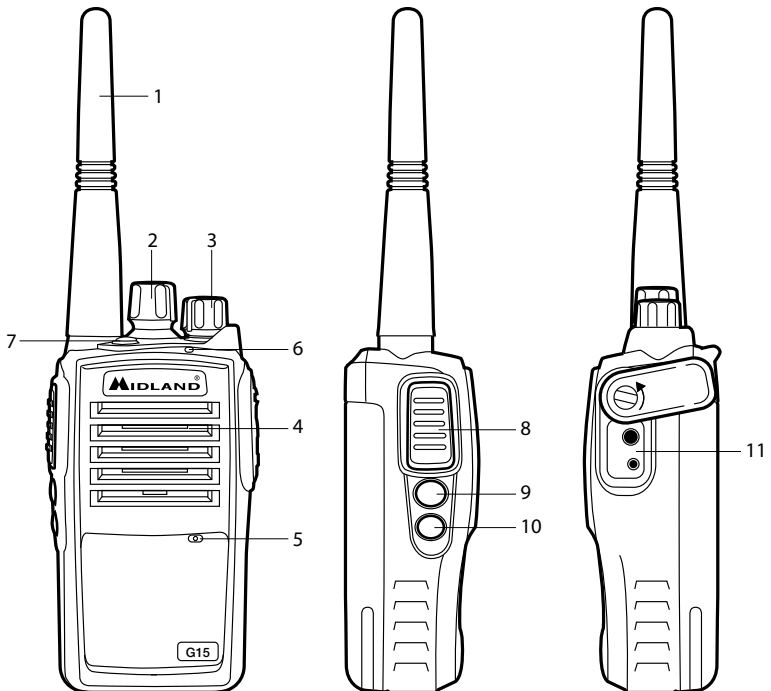
The maximum range depends on terrain and is obtained during use in an open space with clear line of sight.

The limitations to maximum range are environmental factors such as blockage caused by trees, buildings, or other obstructions. Inside a car or metallic constructions, the range can be reduced. Normally the coverage in the city, with buildings or other obstructions is about **3 Km**. In open space without obstructions, the coverage can be more than **15 Km**.

# Main controls and parts of the radio

1. **Antenna**
2. **Channel Selector:** rotate clockwise or counter-clockwise to select the desired channel
3. **Power/volume knob:** turn clockwise to power on and increase the volume level. Turn counter-clockwise to decrease the volume level and power off.
4. **Speaker**
5. **Built-in microphone**
6. **LED indicator:** RED: TX; GREEN: RX.
7. **Emergency button** (it can be activated through the programming software)
8. **PTT:** push this button to transmit, release to receive.
9. **Function key 1:** Short press: Monitor function activation. Long press: VOX function activation
10. **Function key 2:** Long press: SCAN function activation
11. **External Speaker/Mic Jack**- allows the connection with external devices such as headsets, microphones.

Note: Dust cover must be securely fitted to maintain the radio's waterproof rating.



# Operations

## Power on/off and volume adjustment

Rotate the **Power/Volume knob** clockwise to turn the radio on.

Rotate the control clockwise /counter-clockwise to adjust the volume level.

To turn the radio off, rotate the control counter-clockwise until hearing a mechanical “click”.

## Transmission

To communicate, all radios in your group must be set to the same channel.

Briefly press the Function key 1 to enable the Monitor feature and make sure that the frequency is not busy, then press the PTT button.

For maximum clarity, hold the device at a distance of about 4/10 cm.

Release the PTT key to receive.

*Only one user at a time can talk during radio communications. Therefore, it is important not to transmit when you are receiving a communication and use the transmission mode sparingly to allow other users to talk.*

*Transmission consumes a significant amount of energy and should therefore be used sparingly to prolong the battery life.*

*If you are unable to contact a station that you have no problems in receiving, the station may be using CTCSS tones or DCS codes.*

## Monitor

The Monitor feature is for excluding (opening) the Squelch, in order to listen to signals that are too weak to keep the Squelch permanently opened.

Press briefly the **Function key 1** to enable such function.

## Scan

This function is enabled by pushing Function key 2 for 3 seconds;

The LED will alternately blink green.

Whenever any signal is detected, scanning will stop on a busy channel. If no functions are selected, scan will start after 5 seconds. If you press the **PTT**, the radio will transmit on the latest busy channel. After 10 seconds from releasing the **PTT**, G15 will return to the default channel and scanning will be active again.

## Squelch

The Squelch function suppresses noises on free channels and allows receiving of even weak signals.

**G15** has 10 different Squelch levels that can be set by programming software: 0 means that the Squelch is turned off. Level 1 to level 9 allows different levels of noise reduction.

*Make sure you do not set an excessively high squelch level because in this case you may not be able to receive weaker signals. On the other hand an excessively low Squelch value could enable the Squelch even when no signals are present. Squelch must always be adjusted when no signals are present.*

The Time Out Timer is settable from 30 sec to 270 sec through the programming software. This feature is disabled by default.

## Battery recharge

**G15** is equipped for using a 7.4V Li-ion rechargeable battery pack which can be charged by the charger supplied.

It takes approximately 4 hours to fully recharge the radio. The LED of the desktop charger indicates the charge status:

**Red** = charging, **Green** = full charge

For maximum battery life we recommend charging the battery pack when the **G15** is off and the battery pack is fully discharged.

*Using a different battery charger other than the one specified can cause damage to your device or may even cause explosions and personal injuries.*

The **Battery power saving** feature enables a reduction in consumption of up to 50%. If it has been set, it automatically activates when the transceiver does not receive any signals for more than 5 seconds. Power save can be disabled through Programming software.

## Roger Beep (End transmission tone)

When the PTT button is released, the radio will beep to confirm to other users that your transmission has ended and speech can begin.

The Roger Beep can be enabled through the programming software.

## Keypad Beep

If this function is active, you will hear a beep tone every time you press a button (It can be disabled through the programming software).

## VOX

The VOX feature enables hands free conversation without using the PTT of an optional VOX microphone. Just speak in the direction of the microphone and the communication will automatically activate. The VOX sensitivity can be adjusted in 10 different levels (0,1,2,3...9) through the programming software:

0 means that the VOX is turned off, **level 1** is set by default and has the lowest VOX sensitivity, 9 is the highest one.

To activate the VOX feature, keep **Function key1** pressed for about 4 sec. With the programming software you can enable/disable the VOX feature and select the sensitivity levels.

## Maintenance

Your **G15** is designed to fulfill any statutory warranty obligations and to provide many years of service.

As is true for all electronic devices, we recommend following these few suggestions:

- Do not attempt to open the unit. Non-expert handling of the unit may damage it and annul the warranty.
- High temperatures can shorten the life of electronic devices and warp or melt certain plastics.
- If it appears that the Radio emits a peculiar smell or smoke, please shut off its power immediately and remove the charger or battery from the Radio.
- Do not transmit without an antenna.



## Technical specifications

### General

Output Power	5 Watts
Channels	16 (Dealer Programmable)
Frequency Range	450MHz ~ 520MHz
Channel Width	12.5kHz (Narrowband)
Operation Mode	Simplex
Antenna Impedance	50Ω
Input Power	DC 7.4V
Water/Dust Protection	IP67
Scan	Yes
Battery Save	Yes
Monitor	Yes
Key Lock	Yes
Roger Beep	Yes
Squelch	Yes
VOX	Yes
Working Temperature	-20° ~ +55° C
Dimensions (excl Antenna)	114H x 58W x 38D mm
Typical Range	15 Km Line of Sight

### In the Box

- G15 Radio
- Antenna
- Belt Clip
- 1600mAh Li-Ion Battery
- Desktop Charger
- AC Adaptor
- Instruction Manual

### Optional Accessories

- MA-25M - Waterproof Speaker Microphone
- MA-27M - Earpiece Speaker Microphone
- MA-31M - Clear Eartube Speaker
- Microphone ANT-G15 - Replacement
- Antenna
- BC-G15 - Replacement Belt Clip
- PB-G15 - Replacement Battery Pack
- CA-G15 - Desktop Charger Cradle
- AC-G15 - AC Adaptor to Suit Charger Cradle

Specifications subject to change without notice.

## Troubleshooting

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
The radio doesn't switch on.	The battery pack is discharged or has not been installed correctly.	Verify that the battery pack is charged and that it has been correctly installed.
The radio switches off soon after it has been switched on.	Discharged battery pack.	Recharge the battery pack.
The battery pack does not recharge.	The battery-charger has not been connected or installed correctly.	Inspect the connections of the battery-charger and the installation of the batteries.
The radio switches on but is unable to receive signals.	Location of transmission is too shielded.	Move to an another area.
	The volume is too low.	Adjust the volume level.
	Incorrect CTCSS or DCS.	Check that the CTCSS tone or DCS code corresponds to the one set by the parties you are communicating with.
It is not possible to communicate with other parties.	An incorrect radio channel has been selected.	Select the same radio channel used by the parties you are communicating with.
	The radio is installed in a shielded area or is too far from the party you are communicating with.	Move to another area.
	Incorrect CTCSS or DCS.	Check that the CTCSS tone or DCS code corresponds to the one set by the parties you are communicating with.

Reception is fragmented and/or distorted.	The signal is very weak.	Try temporarily disabling the Squelch by means of the Monitor feature.
	The transmission distance is excessive or there are obstacles in the transmission path.	Move closer to the party you are communicating with or to another area.
	Other parties are using the same channel.	Check the traffic on the radio channel by means of the Monitor feature and select another channel if required.
	The radio has been installed too close to equipment that causes interference (televi- sions, computers, etc.)	Increase the distance between the radio and this equipment.

# WARRANTY

Congratulations on your purchase of a quality **MIDLAND** Radio! You're joining thousands of satisfied customers who enjoy & experience the benefits of the products we distribute. In the unlikely event that some technical difficulty arises with your purchase, be assured that we are most anxious to see that the problem is quickly rectified to your satisfaction. Please familiarise yourself with the following simple conditions of our warranty.

This warranty covers faults through component failure or failure of the product to operate in accordance with published specifications. Product failure as a result of unreasonable environmental conditions, accident, misuse, improper installation, unauthorised repair, vehicle electrical or wiring faults or neglect etc, will not be covered by this warranty. Removal and installation costs, if any, would be paid by the owner as well as any freight or postage costs of transporting the product to AudioXtra. AudioXtra shall not be liable or responsible for any loss of use of this product or any form of consequential loss.

## CONSUMER WARRANTY

This product is warranted by AudioXtra International Pty Ltd to be free from defects in materials and workmanship under **NORMAL USE** for a period of **TWENTY FOUR MONTHS** from the date of purchase.

**WITHIN 30 DAYS OF PURCHASE DATE:** Please return the unit for replacement to our National Service Centre or the Retailer from where you made the purchase. All accessories must be included. Proof of purchase date **must** accompany the products.

**AFTER 30 DAYS OF PURCHASE DATE:** Warranty repair and service is carried out by our National Service Centre. Repair and service will be carried out at no cost to the owner if proof of ownership and the date of purchase can be verified to the satisfaction of the authorised centre concerned with this repair. This proof should take the form of either:

- a) The warranty card accompanying this product, stamped and dated by the dealer.
- b) A Tax Invoice or Receipt showing full details of original vendor, purchaser, model number and serial number.

**COMMERCIAL WARRANTY:** A product used in or associated with a commercial application will carry a limited **SIX MONTH** warranty. An abnormal commercial application is one where usage, dust, vibration, heat/cold and other environmental conditions exist at an extreme level.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Please complete details below in the event of warranty service being required.

Purchaser's Name: \_\_\_\_\_

Purchaser's Address: \_\_\_\_\_

Model Number: \_\_\_\_\_ **G15** \_\_\_\_\_ Serial Number: \_\_\_\_\_

Dealer Name: \_\_\_\_\_ Date of Purchase: / /

Dealer Address: \_\_\_\_\_

Invoice/Sales Docket no: \_\_\_\_\_

General Hints: To expedite service and prompt return of the equipment, please:

- a) Clearly describe the fault in detail
- b) Safety and security pack the unit for transport
- c) Include your return address
- d) Provide proof of purchase date as outlined above

**audioXtra**  
INTERNATIONAL

www.audioXtra.com.au

### National Service Centre:

10 STODDART ROAD, PROSPECT, SYDNEY NSW 2148 Australia

Telephone: (02) 8841 9000 Fax: (02) 9636 1204

email: services@audioXtra.com.au

www.audioXtra.com.au

www.midlandeuropa.com/en