

G10

VHF TRANSCEIVER

› INSTRUCTION GUIDE



MIDLAND®

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Midland G10 is a multi-task VHF transceiver.

Combining the latest technology in radio communication along with a sturdy mechanical frame, **G10** 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 **PRG10**, it is possible to increase the performance of your radio or to reduce its functionality by disabling some of the default features (CTCSS, TOT...)

For further information, please consult the Programming software manual.

Any attempt to change frequencies or output power of the radio invalidates the approval.

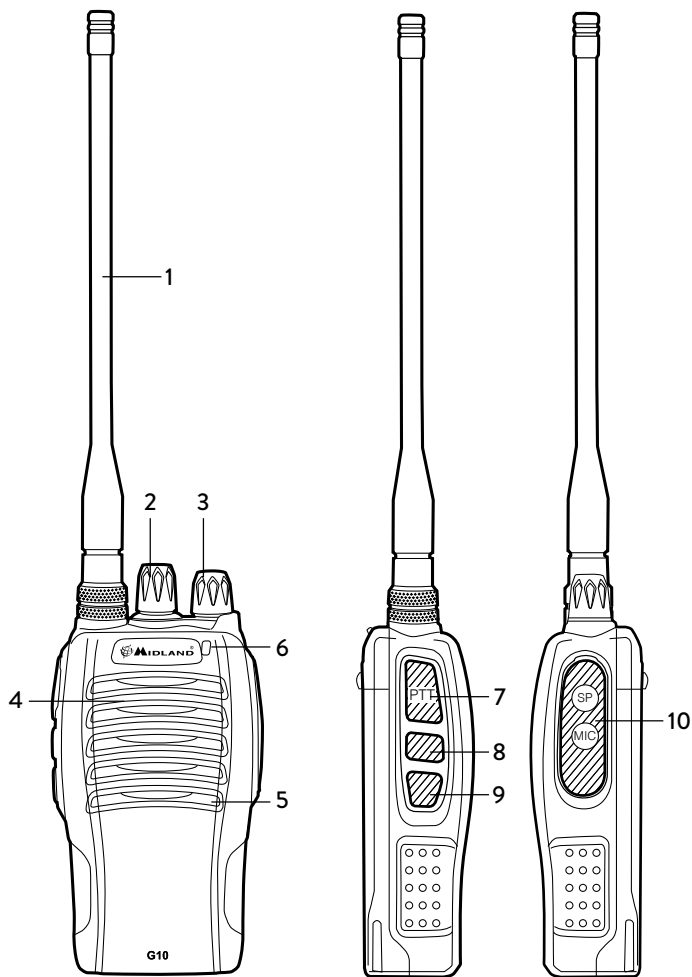
Content

- 1 G10 transceiver
- 1 belt clip
- 1 wall adaptor
- 1 1200mAh Li-ion rechargeable battery pack
- 1 desktop charger

Main characteristics

- VHF Transceiver
- Frequency band: 136-174 MHz
- Output power: $\leq 5W$ ERP
- Channel spacing: 12,5/25KHz
- Scan
- Vocal tuning
- Battery save
- Monitor
- Squelch

Main controls and parts of the radio



1. **Antenna**
2. **Encoder:** 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. **PTT:** push this button to transmit, release it to receive.
8. **Function key 1:** hold down this button to activate the *Monitor* function.
9. **Function key 2:** not programmed by default
10. **External Speaker/Mic Jack-** allows the connection with external devices such as headsets, microphones.

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 as you prefer. To turn the radio off, rotate the control counter-clockwise till 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 in order to make sure that the frequency is not busy, then press the **PTT** button.

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.

Hold down the **Function key 1** to enable such function.

Scan

To activate the Scan function:

switch off the radio and turn to channel 15.

Then keep pressed the **PTT** button and turn on the radio at the same time.

Select channel 16, you will hear a sound tone: the scan is activated.

Whenever a signal is detected, the scanning will stop on a busy channel.

If the **PTT** is pressed, you will transmit on the latest busy channel.

Whenever any signal is detected, the scanning will stop on a busy channel.

If the **PTT** is pressed, you will transmit on the latest busy channel.

Squelch

The Squelch function suppresses noises on free channels and allows to receive even weak signals.

G10 has 10 different Squelch levels that can be set by programming software: 0 means that the Squelch is turned off; from level 1 to level 9 you will have different levels of noise reduction. The higher is the level, the louder will be the Squelch.

By default, the Squelch level of **G10** is set on level 4.

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 15 sec to 600 sec. only through the programming software.

This feature is set to 120 sec by default.

Battery recharge

G10 is equipped for using a 7,4V Li-ion rechargeable battery pack which can be recharged connecting the socket of the AC/DC wall adaptor to a mains power socket and inserting the jack of the wall adaptor into the desktop charger plug.

It takes 4-5 hours to fully recharge the radio.

For maximum battery life, we recommend charging the battery pack when the **G10** 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 signal for more than 5 seconds in order to save the battery life. Power saving can be disabled only through Programming software.

Maintenance

Your **G10** was designed to fulfill any warranty obligations and to enjoy this product for many years.

As for all the electronically devices, we recommend you to follow this few suggestions:

- Do not attempt to open the unit. Non-expert handling of the unit may damage it and/or annul the warranty.
- When using regulated power supply, take notice of power voltage, that must be between 6V and 8V to avoid damages.

- High temperatures can shorten the life of electronic devices, and warp or melt certain plastics. Do not store the radio in dusty or dirty areas.
- Keep the Radio dry. Rainwater or damp will corrode electronic circuits.
- If it appears that the Radio diffuses peculiar smell or smoke, please shut off its power immediately and take off the charger or battery from the Radio.
- Do not transmit without antenna.

Troubleshooting

Problem	Possible Cause	Solution
The radio doesn't switch on	The battery pack is discharged and/or has not been installed correctly.	Verify that the battery pack is charged and that it has been correctly installed.
The radio switches off shortly 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	The site of installation is too shielded.	Move to 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 disturbed	The signal is very weak.	Try temporarily disabling the Squelch by means of the Monitor feature.
	The transmission distance is excessive and/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 (televisions, computers, etc.)	Increase the distance between the radio and this equipment.
The autonomy of the battery pack is limited	Commission time is too high.	Try reducing the transmission time and/or using a low power.

Technical specifications

General	
Frequency range	VHF 136-174 MHz
Working temperature	-20°/+55° C
Operating voltage	7.4V
Operate mode	Simplex
Dimensions	100mm×58mm×33mm (without Antenna)
Weight	195g (Battery pack included)
Antenna impedance	50Ω
Duty cycle	5/5/90%
Transmitter	
Frequency stability	±2.5PPM
Output power	≤5W ERP
Max frequency deviation	≤2,5KHz@12,5KHz; ≤5KHz@25KHz
Audio distortion	≤2%
Adjacent channel power	< 65 dB
Receiver	
RF sensitivity	<-119dBm@20 dB SINAD
Audio distortion	≤2%
Audio response	500Hz ÷ 3KHz

The use of this transceiver is subject to a licence.

Prodotto o importato da:

CTE INTERNATIONAL s.r.l.

Via. R.Sevardi 7- 42124 Reggio Emilia Italia

www.cte.it - www.midlandeurope.com

L'uso di questo apparato può essere soggetto a restrizioni nazionali. Prima dell'uso leggere attentamente le istruzioni.

Produced or imported by:

CTE INTERNATIONAL s.r.l.

Via. R.Sevardi 7 42124 Mancasale Reggio Emilia Italy
The use of this transceiver can be subject to national restrictions. Read the instructions carefully before installation and use.



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