
Note:

Before programming the radio, first study the programming manual.

Before modifying frequencies using software, download the data from the radio and save these settings as a default settings file, then programme the radio according to your preferences and save the new code file, otherwise errors may occur.

You can programme the radio in terms of frequency, channel type, CTCSS/DCS, RF power, etc. Your software must conform to FCC, CE (or other states') certifications.

Functions and properties of the GST G1 radio

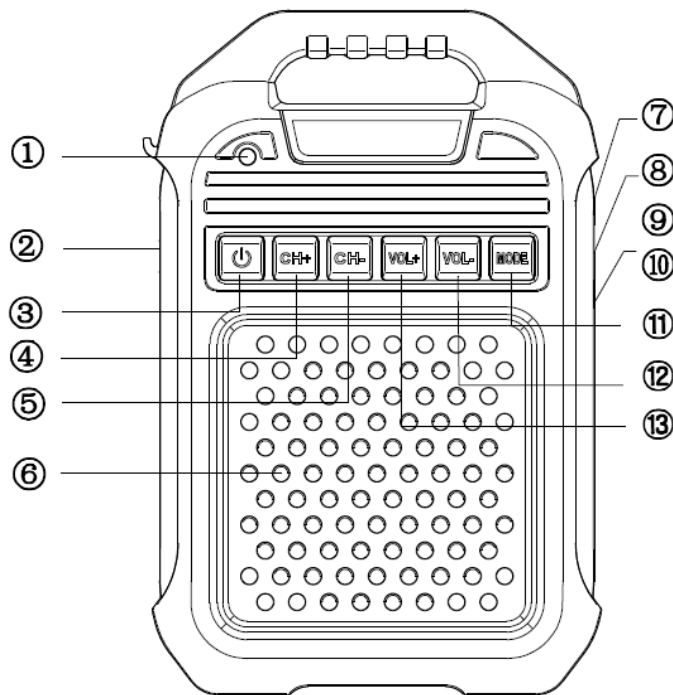
- direct analogue mode PMR 446, sixteen available channels, wide and narrow band interval, with infrasound signalling,
- monitoring, scanning, encoding, busy lock, companding and other auxiliary functions,
- for FM radio functions, press the channel button to freely switch between radio stations,
- Bluetooth connection, wireless transmission distance can be up to ten metres, sound playback from mobile phone or any other source,
- equipped with main USB type C interface for programming, downloads and uploads of files and external power supply,
- TF card support for sound playback, MP3/ WMA/ WAV support (three file formats), single loop support,
- high-performance, internal magnetic speaker, peak maximum power 10 W – clean, precise and loud sound,
- voice transmission and voice announcements,
- patented construction, small size, comfortable grip, easy to carry with optional wireless working mode using 6 x AA power supply.

Basic information

Contents:

bidirectional GST G1 radio x 1, 12 V network adapter x 1, microphone and speaker x 1

Device schematic drawing:













- | | |
|--------------------------------------|--------------------------------|
| 1. TX/ RX indicator | 2. 1x 2.5 mm & 1x 3.5 mm jack* |
| 3. ON/ OFF switch | 4. Channel change button [CH+] |
| 5. Channel change button [CH-] | 6. Built-in speaker |
| 7. TF card slot | 8. DC power supply jack |
| 9. AA battery compartment (6 pcs.)** | 10. USB C jack*** |
| 11. [MODE] button | 12. Volume control [VOL-] |
| 13. Volume control [VOL+] | |

* The jack is used to connect external accessories (speaker-microphone/ tabletop microphone) or a cable for programming.

**Using a small screwdriver, remove the screw and place six AA batteries in the compartment. Then fix the screw back.

*** The jack may be used to connect a programming or external power supply cable.

Button Functions:

	ON/ OFF button	Press and hold for two seconds in order to turn on or off; in the Bluetooth/TF card mode, a short press stops playback, another short press restarts playback.
	CH+/ next track	Channel mode: increases channel number Bluetooth/ TF card mode: next track.
	CH-/ previous track	Channel mode: decreases channel number Bluetooth/ TF card mode: previous track.
	Volume +	A short press of the Volume + button causes an increase in volume (if you press and hold this button continuously during playback, a short tone will sound indicating that you have reached the maximum volume; return to playback with an average volume).
	Volume -	A short press of the Volume - button causes a decrease in volume (if you press and hold this button continuously during playback, a short tone will sound indicating that you have reached the minimum volume; return to playback with an average volume).
	Mode selection button	A short press changes the mode. The mode switching sequence is as follows: channel mode → FM mode → Bluetooth/TF card → channel mode (cycle); press and hold for two seconds in channel mode to turn monitoring on or off.
 	PA speaker mode	In normal channel mode press and hold simultaneously to go to amplification mode , press and hold again to exit the amplification mode (connect a microphone to speak directly)
 	Single loop	In TF card mode press and hold at the same time to go to single loop mode, and then press and hold again to exit single loop mode.

General operation

Switching the unit on/ off

- Connect the power supply to a power source, and then to the unit.
- Press and hold the **ON/ OFF button (3)** for three seconds to turn the unit ON.
- Press and hold the **ON/ OFF button (3)** for three seconds to turn the unit OFF.

Selecting the channel

- Press the **channel change button [CH+] or [CH-]** to select your channel.

Remember: To communicate, at least two users must be on the same channel.

TX/ RX indicator

- **The green light** blinks when the radio is receiving. **The red light** blinks when the radio is transmitting.

PTT (Push-To-Talk) communication

- Connect an external microphone to the G1 unit (2).
- Press and hold the PTT button on the microphone to transmit (speak).
- Release the PTT button to receive transmissions (listen to what others are saying).

Remember: To ensure best reception volume, maintain a distance between the microphone and lips of 2.5-5 cm when transmitting.

Volume adjustment

- After powering up, press the button [VOL+] to increase the volume, or press [VOL-] to decrease the volume.

Operating mode change

- The operating mode may be switched using [MODE]: channel mode, radio mode, TF card/ Bluetooth mode.

Main functions

Monitoring, FM radio, Bluetooth / TF card, PA

- See **Button Functions**.

Troubleshooting

- **The unit does not turn on [grid power supply]**

- The power supply is not connected correctly. Disconnect it and try again.

- The power supply is damaged. Disconnect it, contact the supplier.

- **The unit does not turn on [AA batteries]**

- Check whether the AA batteries are placed correctly in their compartment.

- Replace the AA batteries for new ones (for Ni-MH AA batteries take them out from the compartment and charge them externally).

- Bad contact due to dirty or damaged battery terminals. Wipe the battery terminals in the compartment with a dry cloth. If this does not help, remove the batteries from the chamber and contact the supplier.

- **Interrupted or quiet sound/ low quality sound when receiving**

- AA battery voltage is too low. Replace batteries.

- Low volume. Increase volume using [VOL+].

- Dirty or damaged speaker. Wipe the unit with a dry cloth, and if this does not help, contact the supplier.

- **It is not possible to talk with other users**

- Check whether the channel frequency and DEC / ENC settings you are using, are the same as for other group members.

- Check whether you are in channel mode. Change the mode using [MODE].

- Check whether the transmission range is within the effective radio unit range.

- **Crosstalk on the channel (not from group members)**

- Change DEC / ENC settings for all radio units in your group.

- Try setting Scramble to YES.

- **Noise when receiving sound**

- Excessive distance between other users. Reduce distances between devices.

- Wrong location, e. g. too many physical obstacles. Try changing the location, restart the unit then.

- Ambient or electromagnetic interference. Avoid equipment or environments that can cause radio transmission interference.

Technical specifications

GENERAL	
FREQUENCY	446.00625 MHz ~ 446.19375 MHz
RF OUTPUT POWER	≤ 0.5 W
CHANNEL COUNT	16
CHANNEL SEPARATION	Wide: 25 kHz / Narrow: 12.5 kHz
CTCSS / DCS	50 CTCSS / 105 DCS
OPERATING TEMPERATURE RANGE	-20 °C ~ +60 °C
STORAGE TEMPERATURE RANGE	-40 °C ~ +85 °C
POWER SUPPLY TYPE	DC 12 V / 6x AA alkaline 1.5 V / 6x Ni-MH AA 1.2 V
STANDBY	≤ 20 mA
RECEPTION	≤ 450 mA
TRANSMISSION	≤ 1.4 A @ high power ≤ 650 mA @ low power
HEADSET CONNECTOR	KENWOOD type (1x 2.5 mm jack & 1x 3.5 mm jack)

Distribution and service



Mexpo
ul. Kazimierza Pułaskiego 8
81-368 Gdynia

+48 58 550 10 25
+48 22 39 81 699

www.systemtourguide.com
biuro@systemtourguide.com