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WASTE MANAGEMENT



The symbol means that the product must be taken to separate collection at the product end-of life. Do not dispose of these products as unsorted municipal waste.



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1 GUARANTEE

PowerTrunk Inc. guarantees the repair or replacement, free of charge, of the products that present defects due to anomalies, according to the general guarantee conditions of PowerTrunk Inc.

PowerTrunk Inc. will not, under any circumstances, be held responsible for problems or damage caused by any accessory or auxiliary element that has not been approved or supplied by PowerTrunk Inc. It will not guarantee that this product will function in conjunction with an auxiliary unit or accessory that has not been approved or supplied by PowerTrunk Inc.

PowerTrunk Inc. will not be held responsible for damage caused by installation performed by staff who are not authorised by PowerTrunk Inc.

2 INTRODUCTION

Thank you for purchasing this PowerTrunk HTT-500!

The HTT-500 763-870 MHz can operate in the following frequency bands:

- 763-806 MHz
For Industry Canada, the frequency range is 768-776 MHz and 798-806 MHz.
For FCC, the frequency range is 769-775 MHz and 799-805 MHz.
- 806-870 MHz
For Industry Canada, the frequency range is 806-824 MHz and 851-869 MHz.
For FCC, the frequency range is 809-824 MHz and 854-869 MHz.

Frequency configuration is only allowed and controlled directly by the grantee (TELTRONIC, S.A.U.).

Advanced services and an extensive range of options and accessories will help you to get the most out of mobile communications at work.

With this manual, you will quickly discover how easy it is to use the main functions of your new terminal. You will learn how to make group calls, individual calls, how to send a status message or how to edit a text message and send it to one or more users.

User Guide



Before using the terminal, read carefully this manual.

In addition to the instructions for how to use it, you will also find important information on using it safely, including references to the compliance with international regulations on exposure to radiofrequency.

Keep the manual for future reference. For any additional information, consult your supplier.

Some functions described in this guide may depend on the configuration and options of the equipment, as well as the firmware version.

Please, contact your service provider for more detailed information about the available features of your equipment.”

3 FOR YOUR SAFETY

3.1 General

PowerTrunk has approved a wide range of accessories for the HTT-500 terminal: antennas, batteries, chargers, cases, audio accessories, etc. These accessories have passed all types of tests that ensure their suitability and safety for the use for which they are intended. Use only PowerTrunk approved accessories.

For your safety, only allow PowerTrunk qualified staff to repair the terminal or its accessories. If the installation or repair is not correct, it may be dangerous and may void the guarantee of the terminal.

The equipment has been designed to fulfil the applicable compliance regulations.

The equipment complies with Part 15 of the FCC Title 47 of the Code of Federal Regulations, and with Industry Canada ICES-003. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The equipment complies with the applicable Parts of the FCC Title 47 of the Code of Federal Regulations, and the Industry Canada Regulation RSS-119.

The equipment is supplied with an identification label where the following IC Certificate number and the FCC ID are displayed:

- FCC ID WT7PTHTT500760B
- IC 8624A-PTHTT760B

User Guide

Access scheme is Time division multiple access (TDMA) with 4 physical channels per RF channel. RF Channel Bandwidth (Channel spacing) is 25 KHz.

So, the equipment meets a spectrum efficiency of one voice channel per 6.25 KHz of channel bandwidth.

Modulation scheme is $\pi/4$ -shifted Differential Quaternary Phase Shift Keying ($\pi/4$ -DQPSK) with 18Ksym/sec. modulation rate, equivalent to 36Kbits/sec.

So, the equipment meets a data rate on each physical channel of 9000bits/sec. per 6.25 KHz of channel bandwidth.

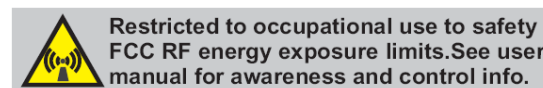
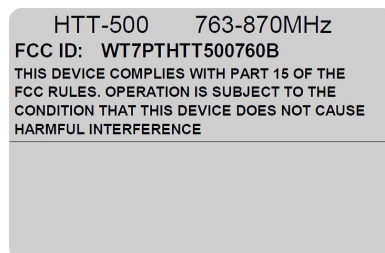
Unapproved modifications or changes to this equipment may cause harmful interference unless the modifications are expressly approved by PowerTrunk. In this case, the user could lose the authority to operate with this equipment.

3.2 RF Exposure and SAR Requirements

Your HTT-500 terminal and the accessories approved by PowerTrunk are designed and manufactured not to exceed the limits of exposure to radiofrequency energy, in compliance with the international regulations for this purpose.

These regulations, which are result of periodical scientific trials by independent organisations, include a considerable safety margin, designed to guarantee the safety of all staff, regardless of their age or state of health.

The following labels will be placed in conspicuous view on the HTT-500:





HTT-500 is restricted to occupational/controller use to safety RF energy exposure limits. This radio is NOT authorized for general population.

Use only accessories, batteries and antennas approved by PowerTrunk. Use of non-approved accessories, batteries and antennas may exceed RF energy exposure limits.

This device does not exceed, in any case, the SAR Spatial Peak of 8 W/Kg, according to FCC and IC rules.

Users can obtain Canadian information on RF exposure and compliance at the Industry Canada RSS-102 standard text.

3.3 *Electromagnetic compatibility*

The majority of electronic devices are susceptible to electromagnetic interference if they are not adequately shielded, designed or configured for electromagnetic compatibility.

To avoid these compatibility conflicts, respect the current regulations of the area you are in, and turn off the terminal whenever its use is prohibited, when it may cause interference or be hazardous, for example, at hospitals or health care premises, where equipment sensitive to external RF radiation may be being used.

Aircraft

Follow all existing restrictions, according to the regulations of the airlines or the instructions of the crew.

User Guide

Pacemakers

Pacemaker manufacturers recommend keeping a minimum safety distance of 15 cm between a portable radio terminal and a pacemaker, to avoid possible interferences with the latter. People with pacemakers should:

- When switched on, always keep the terminal more than 15 cm away from the pacemaker.
- Not carry the terminal in your breast pocket.
- Use the terminal with the ear on the opposite side to the pacemaker to minimise possible interference.
- Turn off the terminal immediately if, for any reason, you suspect it is causing interference.

Hearing aids or other medical devices

Some digital mobile devices may interfere with these appliances. If this interference occurs, contact your service supplier or the manufacturer of the hearing aid or medical device.

Using two terminals nearby may cause interference between them, for example when two of these devices are in the same vehicle. If this happens, separate the terminals until the interference disappears.

3.4 Other operational warnings

Vehicles

The RF signals may affect the electronic systems of motor vehicles that are not well installed or protected, for example, electronic injection systems, electronic anti-locking brake systems (ABS), speed control systems or airbag systems. For further information, verify these aspects of your vehicle, or equipment that has been added, with the corresponding manufacturers.

Do not place the terminal in the area above the airbag or in the area where it would inflate. Airbags inflate with great force and the terminal may be thrown, causing serious injury to the occupants of the vehicle.

Potentially explosive environments

Disconnect the terminal when it is in an area where explosions may occur and obey all signs and instructions.

The areas where explosions may occur are usually, but not always, marked. These areas include fuel loading areas, such as ship decks, petrol stations, premises for storage and transport of motor fuel or chemical products, vehicles that use liquid gas petroleum and areas where the air contains chemical particles or elements, as grain, powder or metallic particles.

Sparks in these areas may cause explosions or fire, with the subsequent risk of injury or even death.

Driver safety

Check the laws and regulations about the use of mobile telephones and radiotelephones in the area where you are driving and always respect them. While driving, pay full attention, and always keep your hands free for operating the vehicle.

As measure of caution, whenever possible, park off the road before making or answering a call.

Acoustic shock

The terminal has a low power front speaker, only used for duplex calls, and a high power rear speaker for half-duplex calls. Only keep the terminal near to your ear (as if it were a mobile phone) when you make or receive duplex calls, otherwise it may damage your ear.

User Guide

Outdoor use

PowerTrunk guarantees that the equipment features an IP54 degree of protection when it is completely sealed and has all the protective gaskets on the different connectors, as it is first supplied by PowerTrunk. To comply with this degree of protection it is also necessary that the battery pack is inserted in the equipment.

Use under severe conditions

Under aggressive environments (heavy rain, excess of humidity, chemical substances, dusty environments,...) or if any of the terminal gaskets is taken off or lost, additional protections are needed. In this case it is recommended to protect the terminal with covers.

To make this protection level is also necessary that the terminal will put your battery pack and antenna.

Programming

The equipment must always be programmed using a programmer release compatible with its firmware.

3.5 Antenna

1. Do not use the terminal without the antenna.
2. To guarantee the safety requirements, always use antennas validated by PowerTrunk.
3. To position the antenna, turn it clockwise, until it is suitably secured. (Do not force the thread of the connector).
4. Never use a terminal that has a damaged antenna. If a damaged antenna comes into contact with your skin, it may cause burns.

3.6 Battery and chargers

PowerTrunk batteries have electronic intelligence and have protection circuits to protect the battery from abnormal charge and discharge conditions.

Battery use conditions

1. Charge battery packs only with chargers approved by PowerTrunk. The use of any other type of packs or chargers will invalidate the guarantee and can lead to early breakdown or make them be useless.
2. Do not throw battery packs into the fire or put them near heaters. Do not place them inside microwave ovens. Also, avoid putting them close to combustible materials.
3. Avoid exposing battery packs to direct sunlight or putting them in places that, potentially, can reach high temperatures (for example, inside a vehicle). They could overheat or damage, then reducing their useful life.
4. Do not submerge battery packs in water or another liquid, or touch their contacts with the hands wet or with damp materials.
5. Do not allow metallic objects contact or short-circuit the battery pack's terminals. Avoid placing it on metallic surfaces or putting it into a pocket, bag or recipient with metallic elements.
6. Do not try to drill, disassemble or modify the battery pack. Do not hit or handle it with sharpened objects.
7. Charge the battery pack between 0°C and +40°C (+32°F and +132°F) only.
8. Do not expose battery packs to AC or DC voltages that could produce uncontrolled charge or discharge currents.
9. It is advisable to put the battery charger on a clear place, free of elements that could prevent a proper ventilation during charging process.
10. If a battery pack shows severe mechanical damage (greater than the scratches or small hits produced during normal use), its internal structure could be affected. In this case, do not use that battery pack any more.

User Guide

11. Charge a battery pack only when necessary. Do not recharge it if it's not completely discharged. It is advisable to carry a spare to replace the battery in use when it is fully discharged.
12. Avoid leaving the HTT-500 terminal connected to the charger once the battery pack is fully charged, since continuous charging processes shorten battery life. Do not use the battery charger as a radio stand.
13. If a battery is very discharged, it can take up to half an hour to show the process of loading.
14. When it is planned to use the equipment at low temperatures, it is recommended that the battery is fully charged.
15. Do not return fully charged battery packs to the charger for an extra-recharge, since this reduces significantly cycle life. Short cycle charging should be avoided.
16. Battery packs should be properly recycled at their end-of-life, in compliance with local regulations.
17. Use only fully charged batteries in order to get the better battery performance and to increase their lifetime.
18. Avoid the equipment coming into contact with chemical substances such as solvents or similar elements.
19. When the number of performed charging cycles with the battery is higher than the specified one, battery could show an increment of its size even though a relevant charge level could be observed. In this case, please, stop using this battery immediately and replace it with another battery with good health.

Battery storage conditions

1. Temperature: It must be between 10°C and 30°C (+50°F and +86°F)
2. Storage place: It must be a cool, dry and well ventilated place, away from direct sunlight, heaters and combustible materials.
3. Humidity: It is recommended to store batteries in a place where humidity is less than

- 70%. It must never be over 85%. Avoid putting battery packs in damp environments or near wet materials, water or any other liquid substances.
4. State of charge: Battery packs, when stored in the long term, can be permanently damaged if these are either very discharged or full charged. Therefore if battery packs are not going to be used for more than 3 months, it will be necessary to charge them to about 50% of their capacity and repeat this process every 3 months. For this purpose, use one of the following accessories approved by PowerTrunk:
 - Single battery maintenance tool (model D037104PT) or
 - Multiple battery maintenance tool (5 units) (model D037105PT).
 5. How to store battery packs: Insert each pack in an insulating plastic bag. It is advisable to put them in cardboard boxes to better protect them against environmental condition changes.

Emergency actions

If during charging, storage or use a battery pack gives off an odour, overheats, discolours, shows deformation (for example, swelling) or electrolyte leakage, or its appearance is abnormal, remove it from the terminal or charger immediately and do not use it any more. Its use could be harmful to health and besides, it could damage the HTT-500 terminal or the charger.

In case that some electrolyte contacts the eyes, wash them immediately with clean water and go to the doctor's as soon as possible. Batteries electrolyte is harmful to the eyes.

If electrolyte leakage contacts skin or clothing, wash them away immediately with clean water. Electrolyte is harmful to skin.

3.7 Audio accessories

1. Only use accessories approved by PowerTrunk.
2. To connect them to left side connector of the terminal, turn the screw clockwise until it is suitably secured (do not force the thread of the connector).

3.8 Transport accessories

When you place the terminal in the cover, check that it is well positioned with the holes for the terminal microphone and speakers.

3.9 Care and maintenance

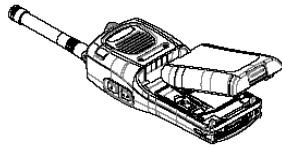
The following recommendations will help to increase the useful life of your terminal and protect the cover of your guarantee:

1. Do not use the terminal in dirty or dusty places. The mobile parts and electronic components could be damaged.
2. Use a soft and damp cloth to clean the outer surfaces. Never use chemical aerosols or abrasive cleaners.
3. To ensure efficient operation, periodically clean the contacts of the battery with a clean, dry cloth.
4. Never expose the terminal to extreme temperatures, for example by a window with direct sunlight. The high temperatures may reduce the duration of the electronic devices, damage the battery and deform or melt the plastic.
5. Do not keep the terminal in cold places. When the device returns to its normal temperature, moisture may form inside, which may damage the internal electronics.
6. Do not hit or drop the terminal. The internal circuit boards and the more delicate mechanical parts may break.

7. Do not paint the terminal. The paint may obstruct moving parts and impede proper functioning.
8. If you observe an indication on the display of your terminal of an error that prevents normal operation, consult your service supplier.
Do not try to repair the terminal yourself, by opening it or manipulating it in any way, as you will lose the cover of your guarantee.
9. Attention! You must never grasp the terminal by its antenna. The equipment antenna has been designed as a radiating element, and not as a handle to make the terminal be easier transported.
10. Do not manipulate the battery connector terminals of the equipment. This could make the terminal operate improperly and will invalidate its guarantee.
11. If you see a continuing failure in reading / writing of your terminal using the programming cable, clean the contacts of the equipment bottom connector in order to remove dirt in it. Use an electronic contact cleaner, using no harsh chemicals, solvents or strong detergents.

4 FIRST STEPS

4.1 Inserting the battery



1. Insert the battery as shown in the figure.
2. Press down until you hear a click, making sure that it is in place.
3. To remove, press the open button inwards.
4. Always remember to turn off the terminal and disconnect the charger before removing the battery.

4.2 Charging the battery

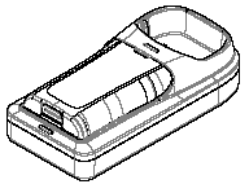


FIG. 1

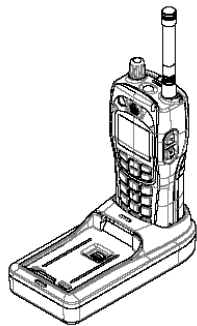


FIG. 2

1. Only use the battery charger provided by PowerTrunk.
2. As shown in the figures, the battery can be charged separately or while connected to the terminal.
3. Before starting to use your terminal, make sure the battery is fully charged.
4. The desktop charger, as seen in figures 1 and 2, can simultaneously charge a detached battery and a terminal.
5. In addition to the desktop charger, there are other models that allow you to charge the battery of your terminal more comfortably anywhere.










Procedure for charging the battery:

1. Connect the personal charger or place the terminal (or the detached battery) in the desktop charger.
2. If the charger is connected with the terminal off, some seconds could be needed before the HTT-500 is turned on, to ensure the battery is Ok.
3. When the process is finished and the battery is fully charged, a message will inform us: "Battery charge completed".
4. Another message will indicate when the battery charge level is low. You should wait for the message before charging again.
5. Periodically, for example once a month, it's advisable to let the battery discharge completely before charging it again. This way you get a more accurate indication of the state of the battery charge.






Indicative icons:

The battery charge level is always shown on the display, both when the terminal is off (symbol in the centre of the screen), and when it is on (icon in the upper line of symbols).

Indications on the desktop charger


Desktop charger LED	Function
 Blue, continuous	Standby. No battery.
 Blue, flashing	Wait, detecting battery.
 Orange, flashing	Charging battery. Low charge state.
 Green, flashing	Charging battery. High charge state.
 Green, continuous	Charge completed. Remove the battery.
 Red, continuous	Battery fail.
 Red, flashing	Temperature out of range.

Indications on the HTT-500



HTT-500 Icon	Function
 Flat battery, flashing	Battery flat.
 Low battery, flashing red	Very low charge state.
 Medium battery, flashing green ¹	Low / medium charge state.
 Full battery, flashing green ¹	High charge state.
 Full battery, green ¹ , continuous	Full charge.

¹ If the battery is approaching to the end of its usable life, these indicators are shown in orange instead green colour. In this case, please replace this battery as soon as possible with another battery with good health else. For additional information, please contact to your service provider.

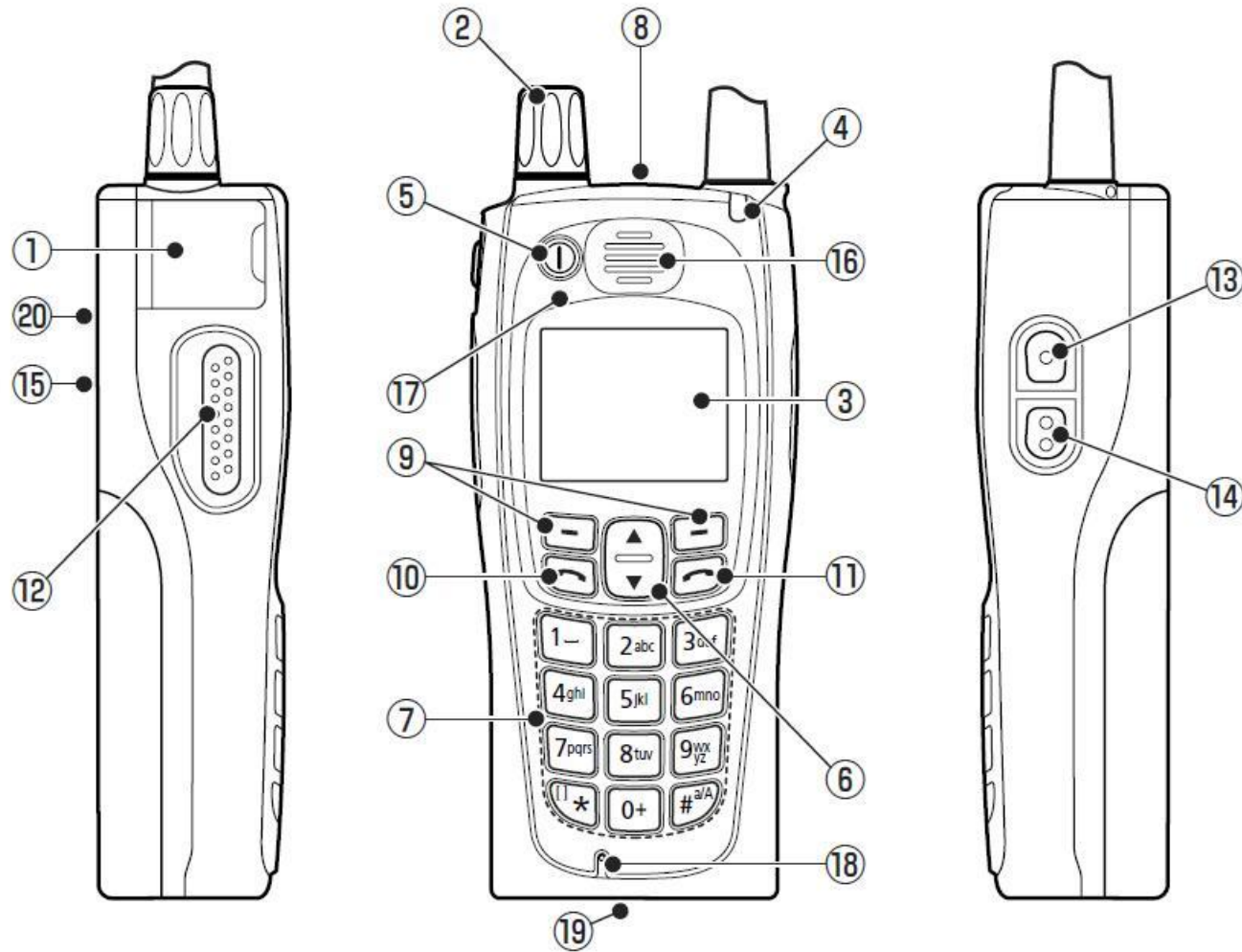
4.3 Start-up procedure

1. Press and hold the ON/OFF button  to turn the terminal on and off. After holding down this key for a few seconds, the indicator lights up your Terminal, proceeding to boot it.
2. After this turn on, the terminal verifies the battery health. If the terminal shows by display this message "*Battery reaching end of life*", please, replace this battery as soon as possible with another battery with good health else. For additional information, please contact to your service provider.
3. If the terminal requests a PIN code, enter the 4-digit code (by default, the preset code is 0000), which appears on the screen as ****, and press OK. You should change this code

for a more secure code that you can remember.

4. While it is switching on, the terminal will show additional information on the display: welcome message, version and user information.
5. There are two operating modes, network mode and direct mode. In network mode, the terminal will be operative when it has successfully registered on the system.
6. During the registration process, the  icon will flash. When the process is finished and the terminal is ready to work on the network, the icon will be constant, the message "In service" will appear on the screen and you will hear a characteristic tone.
7. If the terminal is configured to start up in direct mode, the main screen, displayed after start-up, will show the  icon.













5 BASIC USE OF THE TERMINAL












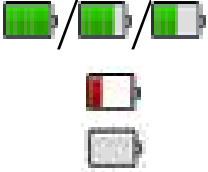
No.	Description	Observations
1	Audio accessory connector	Side connector to connect micro speakers, earphones, hands-free, etc.
2	Rotary knob	This allows you to set the audio volume to the desired level. Programmed changes between ranges and groups after pulse Auxiliary button 1.
3	Screen	Colour display.
4	Indicator light	Bicolour LED with various associated functions. See section 6.2.
5	On / off button	Hold it down for a few seconds to turn the terminal on / off.
6	Up / down arrows (2)	These help you navigate through the different menus and lists of options.
7	Alphanumeric keys	Keys 0 - 9, *, #.
8	Emergency button	Hold it down for a few seconds to make a priority call to the preset destination.
9	Soft keys (2)	Press these to select the option that appears on the lower left or right of the screen.
10	Green call key	Press this to make or answer a call. In standby mode, this allows you to access the list of calls made.
11	Red hang-up key	Its main function is to end a call. When you are not calling, pressing this key will take you to the main screen.
12	PTT	Press to talk button.
13	Auxiliary button 1	Quick access to the special function programmed on this button.
14	Auxiliary button 2	Quick access to the special function programmed on this button.
15	Speaker 1	Speaker for half-duplex calls.
16	Speaker 2	Speaker for duplex calls.
17	Microphone 1	Microphone for half-duplex calls.
18	Microphone 2	Microphone for duplex calls.
19	Auxiliary connector	Auxiliary connector for programming, charger, car kit, etc.
20	Vehicular antenna connector	It allows to connect the HTT-500 terminal to a car kit (it is only available in equipments with "Vehicular antenna" option).

5.1 Screen indicators

The screen indicators show information about terminal operation:

Symbol	Description
	Terminal registration status. (Blue) - Constant: Terminal registered. - Flashing: Seeking registration.
	Migration: Terminal registered on a network other than your local network. (Red)
	Level of coverage.
	Emergency call.
	GPS module state. - Constant: GPS active and obtained connection with satellites. - Flashing: GPS module is synchronising and still does not have position information.
	Bluetooth™ interface active. - Flashing: Activated. - Constant: Pairing with device.
	Active call with air interface encryption. - Constant: Terminal registered in encrypted mode. Encrypted call. - Flashing: Terminal registered in encrypted mode but call set up in clear mode.
	Data service. - Constant: Packet data session active. - Flashing: The icon flashes while transmitting or receiving packets.
	Direct mode (DMO).
	DMO-GAT presence detected in the selected DMO frequency.
	DMO-REP presence detected in the selected DMO frequency.
	New message in inbox.

	Missed call.
	Discreet mode activated. Direct individual calls will be converted to on hook signalling, in which the user must pick up the call by pressing PTT. The icon will appear at the right side of the screen.
	All tones deactivated.
	Audio Profile selected. <ul style="list-style-type: none"> - Normal - Outdoor - Silent - Meeting - Car - Personal - Audio accessory connected
	Scan of active groups (group listening).
	Call active.
	When the terminal module E2EE is activated (End-to-End Encryption): Active call with E2EE. Clear active call.
	Keypad locked.
	Man-down option activated. The icon will appear at the right side of the screen.

	<p>Battery level (without connection to charger, see paragraph 4.2 for indicators when battery is charging)</p> <ul style="list-style-type: none"> - Full / high / medium battery level. (Green colour ²) - Low battery level. (Red colour) - Battery is flat and requires charging immediately.
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² If the battery is approaching to the end of its usable life, these indicators are shown in orange instead green colour. In this case, please replace this battery as soon as possible with another battery with good health else. For additional information, please contact to your service provider.

5.2 Indicator light

The indicator light provides additional information about terminal operation:

LED state	Function
Registration	
Red slow blink	On standby and out of service.
Red / orange slow blink	On standby and out of service. New messages or missed calls.
Green slow blink	On standby and registered on the system.
Green / orange slow blink	On standby and registered on the system. New messages or missed calls.
Calls	
Red, constant	Transmitting.
Green, constant	Receiving. Busy channel.
Flashes red	Transmission request.
Flashes green	Standby, call active but nobody transmitting.
Orange, constant	Call set-up or call end (including queued calls).

Battery charge (when terminal off)	
Flashes green ³	Charging battery.
Green ³ , continuous	Battery charged.

³ If the battery is approaching to the end of its usable life, these indicators are shown in orange instead green colour. In this case, please replace this battery as soon as possible with another battery with good health else. For additional information, please contact to your service provider.

5.3 Main screen

The main screen is the 'Voice call – Group mode' screen. The terminal is ready for you to press PTT (Press-to-talk) and launch the call directly to the selected group.

As it is showed in the following figure, the basic information displayed on the main screen consists of the folder or range the selected group belongs to, the name of the group, and its status.



From the main screen, you can access a number of basic functions:

- Soft key 1: Access to the main menu.
- Soft key 2: Access to the phonebook (contacts list).
- Arrows: Navigation through the list of groups.
- Green key: Quick access to the last dialled calls.

User Guide

- Numeric keypad: Dialling of the destination number for an individual call.

Your service supplier may configure other keys to quick access to specific functions. For example:

- Access to favourites menu screens.
- Sending of specific events (status messages, voice calls, etc...)
- Immediate actions (selection of preferred group, deactivation of some functions, etc...)