



Actual Size

- **IP65 rated for dust and water protection**
Allows use in harsh environments, coupled with MILSTD 810F for robustness
- **Powerful 1 Watt Audio Output**
BTL Technology output, makes radio louder than most competitors and allows clear speech even in noisy environments
- **Panic Alarm**
Fully programmable Safety features for user protection
- **Voice Annunciator**
Gives clear indication of Channel and battery power
- **Fully Programmable features**
Programmable: Scanning, Call Keys, Lone Worker, CTCSS Scan
- **1500mAh Li-Ion battery pack**
High Power battery pack gives in excess of 15 hours use
- **VOX**
Allows Voice Activated/Hands Free Transmission, either Internal or external
- **Lone Worker**
Allows protection of user with programmable Lone Worker Alarm and programmable keys for additional functions
- **16/32 Channels**
Two banks of 16 channels selectable via rotary channel switch with voice annunciation of channel number
- **Wideband**
VHF 136-174MHz and UHF 400-470MHz
- **“Z” matched SMA antenna**
The flexi whip, antenna is specifically Z matched to give ultimate range and performance, with options for “stubby” and “whip” antenna

The PT500 has been designed for the professional user, with a rugged and robust housing which meets Military Standard MILSTD810F for ingress and shock resilience. The IP65 rating against dust and water ingress makes the PT500 usable in the toughest of environments.

Small, compact and fitting comfortably in the hand, not only is the PT500 tough - its smart too, with inbuilt features for Personal Protection Equipment such as Lone Worker functions and a Panic Alarm button - all programmable to allow ultimate flexibility and control.

Thanks to BTL technology and a crisp Loudspeaker giving 1 Watt of audio output the PT500 has class leading audio quality making it much better to hear in noisy environments than its competitors. The radio has a standard “M1” fit audio accessory connector.

Operation is simple with voice annunciation of Channel number and battery status.

The radio comes complete with a high capacity (1500mAh Li-ion) battery and single way fast charger, and a two year warranty with options for up to 5 years warranty cover.



Key Features in more detail:-



LONE WORKER ALARM & PANIC BUTTON

The programmable Lone Worker Alarm operates when the radio user fails to press a button after a pre-programmed time period, from 1 minute to 255 minutes, starting a local warning to the radio user, with an audible alert tone, followed by a full Alarm condition if the radio is not activated by the user to indicate that they are OK.

The pre-timer allows the user some time once the "Lone Worker" time has expired to reset the timer by activating a key and can be programmed from 0 sec - 255 sec. before the Main alarm is activated. If the user fails to reset the Lone Worker then the Main Alarm will be activated. The top mounted Panic button can also be programmed to send an alarm signal when pressed.

Both alarms can be set (by your dealer) to alert locally or send an alarm signal to other radios in the group for summoning help.



IP65 and MILSTD810F

The Lynx PT500 is built to meet IP65 for ingress of water and dust, as well as exceeding MILSTD 810F for shock, vibration, solar radiation, rain, humidity and salt fog.

This level of robustness makes the radio suitable for harsh environments where standard IP54 rated radios will generally fail due to the lack of protection against dirt and fluid ingress. Internal seals and "O" rings protect the main circuit board and the "M1" fitting audio accessory connector is sealed by a rubber cover and the ON/OFF switch has a protective guard to reduce damage if dropped.



Audio Quality

The Lynx PT500 has a powerful audio amplifier circuit, which gives a clear, crisp and powerful "punch" even in noisy environments. The radio is rated at 1 Watt power with a water resistant mylar film speaker.

The power rating is achieved by using "BTL" (balanced tuned load) technology which allows a much bigger signal to be sent to the speaker and outperforms its competitors easily. This "HiFi" approach to audio delivery allows a crisp signal without distortion to be appreciated by the user.

A range of audio accessories are available to fit the universally standard "M1" plug fitting.

Accessories available: - A selection

KBC06, six way charger



RED1W01, Covert Kit



RED1D01, D shell Kit



REDSM01, Speaker/mic



REDEH01, Ear cup/mic



Noise Defending



Specifications

General Specifications

Power Supply:-	7.5V DC +/- 20%
Frequency Ranges:-	VHF: 136-174MHz UHF: 400-470MHz
Number of Channels:-	16 Channels/ 32 Channels
Channel Spacing:-	12.5KHz / 20KHz / 25KHz
PLL Step:-	6.25KHz
Type of Emission:-	FM (11K0F3E)
Current drain:-	TX (high): <0.5A, RX (@1W AF): <330mA, Standby: <70mA
Antenna Impedance:-	50 Ohm SMA fixed antenna
Operating Temperature:-	-30°C - +60°C
Dimensions H x W x D (mm):-	96.5mm x 54mm x 32mm with standard Li-ion battery
Weight (g):-	<235g with standard battery and antenna
Average battery life (5/5/90):-	>15hrs with standard battery (1500mAh)
MILSTD & IP Rating:	MILSTD810F/MILSTD810C.D&E. IP65 for dust/water

Transmitter Specifications

Frequency Stability:-	2.5ppm (-30°C to +60°C, 25°C ref)
Power Output:-	5W UHF 4W UHF fully programmeble
Modulation Limiting:-	+/- 2.5KHz (12,5KHz)
FM Hum and Noise:-	<-40dB typical
Conducted/Radiated Emissions:-	<-36dBm, <1GHz, -30dBm, >1GHz
Adjacent Channel Power:-	<-60dB @ 12.5KHz
Audio Response:-	+1 ~ -3dB (300-3000Hz)
Audio Distortion:-	<3%

Receiver Specifications

Sensitivity (12dB SINAD) EIA:-	>0.28uV @ 12.5KHz
Sensitivity (20dB SINAD) ETS:-	>0.50uV typical
Intermodulation EIA:-	>70dB
Adjacent Channel Selectivity:-	>60dB @ 12.5KHz
Spurious Rejection:-	>70dB
Rated Audio:	Typically 1W
Audio Distortion:-	<3% @ rated audio
Audio Response:-	+1 ~ -3dB
Conducted Spurious Emission:-	-57dBm @ <1GHz / -47dBm @ >1GHz (ETSI 300-086)

R&TTE Information

The PT500 is tested and certified in accordance with the R&TTE directive 1999/5/EC against the following standards/specifications: EN 60950-1+A11, EN301 489-1/-5, EN300 086-1/-2.

The PT500 carries the confirmation labelling:-



Your Local Dealer/Distributor:-



All stated specifications and measurements are in accordance with EN300-086
 Specifications are subject to change or ongoing improvement.
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