

LifeSaver Plus

LS+

Portable Radar Detector
090100

1. Product overview

LifeSaver Plus portable radar life detector is based on the ultra wide band (UWB) radar working principle, which is using nanosecond electromagnetic pulse (EMP) human motion Doppler echo effects. It is able to detect and display either the moving or the resting survival buried under the ruins, sequentially, achieved the objective of detection, research and rescue of the survival. **LS+** is an upgraded products based upon the former successful products **LS+**. It is much more compact while with even larger detection zone compare with the former **LS+**. It meets the requirement of fast search of live life in the emergency rescue site of earthquake disaster and collapse accident, widely used to improve the quality of rescue and working efficiency of armed police, fire fighting, earthquake rescue etc for their emergency rescue task



2. Product features

High penetrability : function of detecting the whole motionless human body under the 8 meters solid ruins.

High real-time : function of real-time detection and tracking-indicating to the moving objects.

High range resolution : function of centimeter-level range resolution.

High sensitivity : function of detecting the cardiopulmonary movement of whole motionless human body.

Strong environmental suitability : function of medium offset in various working environment.

Strong professional supporting : This series radar life detector is the only one in the world which was equipped with the remote expert analysis supporting system among the similar product.

It asks for the plentiful specialized knowledge to achieve the object detection accurately at the complicated on-site rescue surrounding. It is able to provide much



more plentiful and accurate analysis result and improve the on-site rescue efficiency due to the analysis & judgment which will be proceeded by the remote expert accordingly to the on-site data.

LS+ series radar life detector is the only one in the world equipped with the remote expert analysis supporting system and setup the expert remote supporting center by using the cloud computing ultra-strong processing platform to provide the thorough data analysis service to the end-user. Meanwhile, products itself was equipped with various specialization ancillary functions such as global position system (GPS), multicomputer network and so on.

3. Product features

Radar system		Ultra Wide Band (UWB) radar
Antenna type		Enhancement-model medium coupling UWB antenna
Center frequency		400MHz
Through-wall detection range	thickness of the wall	50 cm
detection range		Resting life body≥25m ; Moving life body≥30 m
Penetrable material		concrete、 soil、 rock、 nonmetal such as wood.、 low moisture content objects.
Penetrating performance		detect any vital signs by penetrating through 10m brick solid wall
Detection opening angle and detection zone	Detection opening angle	≥±60°
Detection horizontal area		≥8400 m ²
Detection cone-shape volume		≥84000 m ³
Remote-control distance		Remote-control distance≥100m in spacious circumstance
Detection accuracy		±10cm
Detection model		single-dimensional range finding model
Medium offset model		air/through-wall/ruins
Function of remote expert service		Supporting
Function of GPS		Supporting
External dimensions and weight	component	Radar host Hand-held terminal
dimensions		430*430*180 mm 193*122*10mm
weight		6.5 Kg 345 g
continuous working period		10 h 10 h
battery type		Chargeable lithium hydrate battery Chargeable lithium hydrate battery
Operating system		Android 4.0.3
Professional software		Object identification system software DN-III+ of radar life detector
Operating temperature		-20°C~+60°C
Protection class		IP65
Application field		Widely used in armed police, fire fighting, earthquake rescue etc. for their emergency rescue task