

Rescue teams around the world have relied upon the LifeDetector® for over 15 years to rapidly detect and locate victims of collapsed buildings. The LifeDetector® essentially converts the entire collapsed structure into a large sensitive microphone to pinpoint signals from the entombed victims. The seismic and acoustic sensors of the system convert vibrations created by the live victim into audible and visual signals. The new Delsar® LifeDetector® Model 3 builds on our vast experience gained from years of real life rescues. The LD3 Mini is smaller, lighter and more sensitive, with new features designed to make victim detection and location easier and more accurate. The new LifeDetector® is built for reliability and the ability to withstand days of continuous use at the disaster site.

Delsar® LifeDetector® LD3

The Delsar® LifeDetector® is a seismic/acoustic listening device designed specifically to detect and locate trapped live victims in collapsed structures caused by earthquakes, explosions, landslides, mine disasters or construction cave-ins.



Improved seismic sensor design to increase stability and addition of a connector guard to protect sensor connectors from impact damage.

Uses the new Lithium Ion rechargeable battery tube pack as well as disposable cells and the SearchCam belt pack battery system making the Delsar® LifeDetector® power compatible with hundreds of rescue teams around the world.

Specifications

CONTROL CONSOLE

SENSOR INPUTS 2 strings
 SEISMIC SENSOR 6
 ACOUSTIC SENSOR 2*
 VISUAL DISPLAY Up to all six sensors simultaneously
 AUDIO OUTPUT 2 headphone outputs
 AUDIO SELECTION 0-6 sensors, audio response is summed, stereo output can be selected with any 2 sensors

FREQUENCY RANGE 1 Hz – 3000 Hz

FILTER RANGE
 LOW High pass, 100 Hz >
 AC Notch 50/60 Hz
 HIGH Low pass, 600 Hz <

RECORD CAPACITY 300 second loop, indexed to 15 second blocks
 AUXILIARY OUTPUT Provides audio, chart recorder and remote control function capability

SEISMIC SENSOR

POSITION SENSITIVITY Can be used in any position
 SEALING IP67 (water and dust tight)
 SHOCK RESISTANT >1000 g
 FREQ. RESPONSE 1 Hz to 3000 Hz

ACOUSTIC SENSOR

SEALING IP67 (water and dust tight), microphone must be dry for operation
 FREQ. RESPONSE 200 Hz to 3000 Hz
 OPTIONS Telescoping probe

BATTERY

TYPE Rechargeable Lithium Ion tube pack
 ENDURANCE 2 – 6 hours depending on number of sensors
 RECHARGE TIME 3 hours
 CHARGER POWER 12 VDC (vehicle charging), 110-220- VAC
 BATT. OPTIONS Disposable Lithium cells (CR123) with adapter. SearchCam 2.5 Ahr/5 Ahr SLA belt pack with adapter cable

DIMENSIONS

CONTROL CONSOLE 6" W x 5" H x 3.25" D (152 mm x 127 mm x 83 mm)
 WEIGHT 2.2 lbs (1 Kg) with rechargeable battery
 SEISMIC SENSOR 3.5" Diameter x 2.6" H (89 mm x 66 mm)
 WEIGHT 16.5 oz (.465 Kg)
 ACOUSTIC SENSOR 1.625" D x 6" L (41 mm x 152 mm)
 SENSOR CABLE Length 30.2 feet (10 M)
 CASE 32" L x 21" W x 12" D (81cm x 53cm x 31 cm)
 WEIGHT (LOADED) 45 lbs (20.4 Kg)

*ACOUSTIC SENSOR 2 OPTIONAL - NOT INCLUDED WITH KIT



Display panel shows relative signal strength of all six sensors simultaneously to allow positive identification of the strongest signal. Peaking meter on each bar indicates highest amplitude reached by each sensor.

Sometimes two heads are better than one. Twin headphone jacks facilitate this.

Stereo function allows any two channels to be selected for stereo comparison in headphones.

Filters can be selected to reduce interfering noises.

Audio loop record function records last five minutes of audio for playback and comparison.

Dual inputs for increased sensor deployment flexibility. Allows two acoustic search probes to be used simultaneously for stereo comparison.





The Delsar® LifeDetector® Mini is a two sensor seismic/acoustic listening device designed specifically to detect and locate trapped live victims in collapsed structures caused by earthquakes, explosions, landslides, mine disasters or construction cave-ins.



Dual inputs for increased sensor deployment flexibility. Allows two acoustic search probes to be used simultaneously for stereo comparison.

Display panel shows relative signal strength of all sensors simultaneously to allow positive identification of the strongest signal. Peaking meter on each bar indicates highest amplitude reached by each sensor.

The Zoom key changes the resolution of the bar graph to better differentiate the signals in high signal level conditions.

The up and down arrow keys control the gain level of the system.

Specifications

CONTROL CONSOLE	
SENSOR INPUTS	2 strings
SEISMIC SENSOR	2
ACOUSTIC SENSOR	1
VISUAL DISPLAY	Up to two sensors simultaneously
AUDIO OUTPUT	1 headphone output
FREQUENCY RANGE	1 Hz-3000 Hz
FILTER RANGE	
LOW	High pass, 100 Hz>
ACOUSTIC SENSOR	Notch 50/60 Hz
HIGH	Low pass, 600 Hz

SEISMIC SENSOR	
POSITION SENSITIVITY	Vertical or Horizontal
SEALING	IP67 (water and dust tight)
SHOCK RESISTANT	>1000 g
FREQ. RESPONSE	1 Hz to 3000 Hz

BATTERY	
TYPE	Lithium Ion Sticks
ENDURANCE	2-6 hours depending on model of battery and number of sensors

DIMENSIONS	
CONTROL CONSOLE	3" W x 3.5" H x 6" D (76.2mm x 88.9mm x 152.4mm)
WEIGHT	1 lbs (< 1kg) without disposable battery tube
SEISMIC SENSOR	3.5" Diameter x 2.6" H (89 mm x 66mm)
WEIGHT	16.5 oz. (.465 kgs)
ACOUSTIC SENSOR	1.625" D x 6" L (41mm x 152mm)
SENSOR CABLE	Length 30.2 feet (10m)

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