

Delsar[®] LifeDetector™ LD3



Used by FEMA, USAR, SUSAR and rescue teams from around the world, the Delsar Life Detector LD3 is seismic/acoustic listening device to detect and locate live victims trapped in:

- Collapsed structures caused by earthquakes
- Explosions
- Landslides
- Mine disasters or cave-ins

The Delsar Life Detector LD3 converts the entire collapsed structure into a large sensitive microphone that transmits noises from entombed victims. The seismic and acoustic sensors convert vibrations created by the live victim into audible and visual signals. The Delsar is rugged, reliable and able to withstand days of continuous use at the disaster site.

Designed for following uses and industries



KEY BENEFITS

- Easy-to-read clear display panel
- Equipped with up to 6 sensors
- View simultaneously the strength from all sensors to ID the strongest signal
- Noise reducing Filters for better audio quality
- Record last five minutes of audio
- Twin headphone jacks
- Lithium-ion batteries compatible with SearchCam 3000

TECHNICAL DATA

Sensor inputs	2 strings
Seismic sensor	6
Acoustic sensor	1
Visual display	Up to all 6 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
Control console	
Dimensions	6"L x 5"H x 3.25"W (152 mm x 127mm x 83 mm)
Weight power module	2.2 lbs (1kg) with rechargeable battery
Frequency range	1 Hz - 3000 Hz
Filter range, low	High pass, 100 Hz
Filter range, AC	Notch 50/60 Hz
Filter range, 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
IP Ratings	IP67 (water and dust tight), microphone must be dry for operation



Battery

Battery type	Rechargeable Lithium-ion tube pack
Battery endurance	2 - 6 hours depending on number of sensors
Battery recharge time	3 hours
Power Input	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

Seismic sensor

Position sensitivity	Can be used in any position
IP Ratings	IP67 (water and dust tight)
Shock resistant	>1000g
Freq. response	1 Hz to 3000 Hz
Dimensions	3.5" D x 2.6" H (89 mm x 66 mm)
Weight	1.02 lbs (0.465kg)
Sensor cable	Length 30.2 feet (10m)

Acoustic sensor

IP Ratings	IP67 (water and dust tight)
Freq. response	200 Hz to 3000 Hz
Dimensions	1.625" D x 6" L (41mm x 152mm)
Weight	1.36 lbs (0.62kg)
Options	Telescoping probe
Sensor cable	Length 9 feet (3m)
Headphones	2
Headphones type	Stereo, microphone

Case

Material	Polypropylen
Weight (empty)	14.1 lbs (6.4kg)
Weight (loaded)	45 lbs (20.4kg)
Dimensions	32" L x 21" W x 12" H (81cm x 53cm x 31cm)
IP Ratings	IP67 (water and dust tight)

