



# Environmental Protection

For short term community, construction, mining, or other outdoor noise monitoring

## Highlights

- Noise Monitor Protection in Any Weather
- Available for Model 831 and SoundExpert® LxT
- Durable, Portable, Pelican® Enclosures
- Water-tight Cable Pass Through
- Rechargeable Battery Option
- Microphone Protection with Built-in Rain Screen

## Applications

- Outdoor Noise Monitoring
- Construction Noise
- Mining Noise
- Outdoor Venues
- Aircraft Noise
- Amusement Parks
- Environmental Impact Studies
- Industrial Noise Monitoring



When making outdoor noise measurements, sensitive microphones and noise measuring equipment can be exposed to all types of weather including rain, dew, wind and heat. Protect your equipment and data from the negative effects of exposure to weather by using an Environmental Protection System, EPS. Our EPS products allow a sound level meter to be placed in a protective case and connected to an outdoor microphone system through a watertight orifice using an extension cable.


These systems provide rechargeable battery power to your noise monitoring equipment for up to 4 weeks, while also protecting from damage or measurement error due to dirt or moisture. Whether you need a system that is small and portable or one that will provide extended continuous monitoring in remote locations, we have an EPS product to fit your need.

For protecting your outdoor microphone and preamplifier we offer a new universal protection shroud. The EPS2116 has a built-in rain screen and can be mounted on a camera tripod (1/4-20 thread) or a 3/4" NPT (ISO 228-G 3/4) pipe thread. When combined with the Model 831 or SoundExpert LxT sound level meter, digital correction filters allow for the selection of free field, random or 90 degree response from your sound level meter for a high level of measurement flexibility.

Determining the EPS products that are suitable for your application will depend on the weather conditions, accessibility to the site, duration of your measurements, and more. See the table below to help you select the most appropriate products.





		EPS030	EPS036	EPS037	EPS042
					
<b>Power</b>					
Battery Type		Lead Acid	Lead Acid	Lead Acid	Alkaline
Battery Capacity		21 Ah	42 Ah (2 x 21 Ah)	100 Ah	8 x D-cell
Runtime (typical)	Model 831	6 days	14 days	28 days	9 days
	SoundExpert LxT	6 days	14 days	28 days	17 days
Power Cable (included)	Model 831	CBL168	CBL166, CBL168	CBL168	BAT015
	SoundExpert LxT	CBL159, CBL169, PSA031	CBL159, CBL 166, CBL169, PSA031	CBL159, CBL169, PSA031	BAT015
Power Connection	Model 831	12 V input	12 V input	12 V input	Internal battery terminals
	SoundExpert LxT	USB	USB	USB	Internal battery terminals
<b>Mechanical</b>					
Dimensions (L x W x D)		18.5 x 14.1 x 6.9 inch (47 x 35.7 x 17.6 cm)	19.7 x 12.0 x 18.0 inch (50 x 30.5 x 45.7 cm)	19.7 x 12.0 x 18.0 inch (50 x 30.5 x 45.7 cm)	13.4 x 11.6 x 6.0 inch (33.9 x 29.5 x 15.2 cm)
Weight	w/o battery or instrument	10 lbs. (4.5 kg)	26 lbs. (11.8 kg)	26 lbs. (11.8 kg)	6 lbs. (2.7 kg)
	w/ battery and instrument	30 lbs. (13.6 kg)	60 lbs. (27.2 kg)	103 lbs. (46.7 kg)	12 lbs. (5.4 kg)
Case Model		Pelican® 1500	Pelican® 1440	Pelican® 1440	Pelican® 1400
External Connection		LEMO® bulkhead mates with CBL142-xxx	One (1) gland with rubber stopper	One (1) gland with rubber stopper	One (1) gland with rubber stopper
<b>Miscellaneous</b>					
Other uses			Extended NoiseTutor battery operation	Extended NoiseTutor battery operation	SoundTrack LxT
Optional Accessories		CBL142-xxx			
<b>Ordering Information</b>					
For use with Model 831		EPS030-831	EPS036-831	EPS037-831	EPS042
For use with SoundExpert LxT		EPS030-LXT	EPS036-LXT	EPS037-LXT	EPS042
For use as NoiseTutor Battery			EPS036	EPS037	

### Related Accessories

TRP001	Camera type tripod
TRP003	Portable tripod use with ADP034
EPS2116	Outdoor Microphone and Preamplifier protection
WS011	Replacement windscreen
ADP103	Adapter connecting EPS2116 to TRP003




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For environmental noise monitoring and building acoustics, **Larson Davis** offers a full line of instruments, accessories and software. For personal noise and vibration exposure monitoring, Larson Davis complements this with sound level meters, personal noise dosimeters, human vibration meters, audiometric calibration systems and hearing conservation programs.

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