

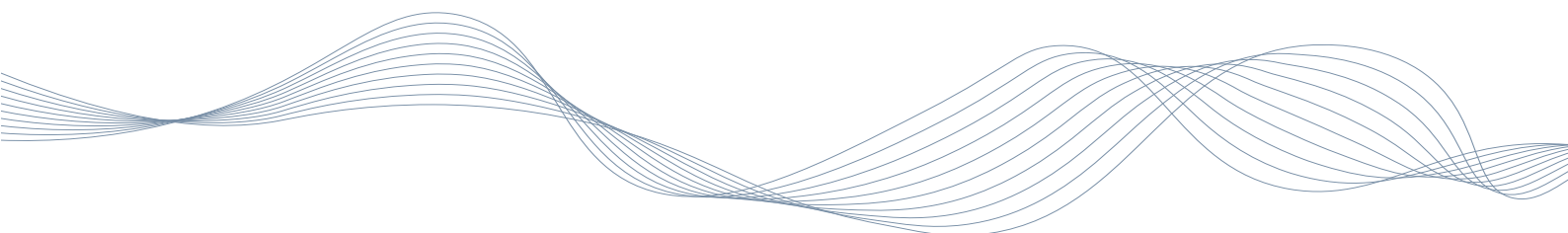
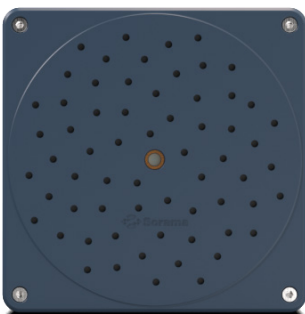
# Sorama L642

## PRODUCT SPECIFICATION SHEET

The Sorama L642 is the evolution in acoustic monitoring solutions. It combines the powerful use of acoustic imaging, Class 1 performing detection of sound levels, accurate localization and interpretation. Advanced sound interpretation is generally split up in specific (deep-learned) classification as well as anomaly detection. The Sorama L642 supports AI edge computing as well as server-based solutions, all powered and connected with one single network cable.

The Sorama L642 can be used in a variety of application fields: smart stadium, safety & security, mobility and environmental monitoring. The acoustic monitors can be easily connected to cover larger areas with secure and GDPR-proof data handling.

- ▶ All-in-one acoustic monitoring
- ▶ Class 1 performing Environmental noise monitoring
- ▶ Acoustic anomaly detection
- ▶ Vehicle classification
- ▶ City Safety classifiers
- ▶ Visual light camera integrated (Sorama L642V)
- ▶ Sound intensity mapping



## Sorama L642

### INVENTORY

Sorama L642 Acoustic Monitor	1
Male RJ45 connector	1
IP66 RJ45 connector	1
Quick Installation Guide	1

### SORAMA L642 ACOUSTIC MONITORS

	L642	L642+	L642V	L642V+
64 MEMS microphones	✓	✓	✓	✓
Sunflower Array	✓	✓	✓	✓
Integrated camera			✓	✓
Edge Computing	✓		✓	
Edge Computing Plus		✓		✓
API Framework	✓	✓	✓	✓
dB Values	✓	✓	✓	✓
Localization	✓	✓	✓	✓
Classification	✓	✓	✓	✓
Server		✓		✓

## Sorama L642

### PHYSICAL PROPERTIES

<b>Size</b>	170 x 170 x 65 mm 6.7 x 6.7 x 2.6 inch	L x W x D
<b>Weight</b>	0.85 kg 1.7 Lb	
<b>Power</b>	PoE(+) port 100-240V AC, max 25W IEEE 802.3af for Sorama L642 and L642v IEEE 802.3at for L642+ and L642v+	
<b>Mounting</b>	Vesa 10 mounting (backplate) UNC 1/4-20X5/8 female (tripod)	

### SYSTEM INTEGRATION

<b>API</b>	Open HTTP REST	
<b>Event Triggers</b>	dB SPL Threshold	Classifiers
<b>Event Actions</b>	Recording to Server (edge) storage. Audio recordings, acoustic video recordings, acoustic image captures	Acoustic sound map overlay stored separately for editing & analysis
<b>Dedicated Services</b>	Loud Vehicle Detection, Smart stadium, BioAcoustics, Smart City	
<b>Classifiers</b>	Acoustic Anomaly detection, Vehicle (car, truck, tractor)	City Safety (gunshot, aggression, breaking glass)

## Sorama L642

### CAMERA (SORAMA L642V ANDL642V+)

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<b>Integrated visible light</b>	Fixed lens
<b>Resolution video</b>	720x1280 or 1920x1080 (still image)
<b>Camera resolution</b>	720p at 30fps
<b>Camera Field of View</b>	65°±3°

### MICROPHONES

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<b>Type</b>	MEMS	Digital bottom port
<b>SNR (A-weighted, at 1 kHz)</b>	64 dB for 94 dB SPL	@ 1kHz
<b>Sensitivity</b>	-26 dBFS+/-1.5dB	At 1 kHz, 94 dB SPL
<b>Acoustic overload point</b>	120 dB SPL	At 1 kHz, <10% THD

### COMPLIANCE

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<b>EMC</b>	EN55032:2015 EN61000-4-2:2009 EN61000-4-3:2006 EN61000-4-4:2012 EN61000-4-5:2006 EN61000-4-6:2009 EN61010-1:2010	FCC Title 47.Part 15
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## Sorama L642

### DATA FORMATS

**Audio** .wav (audio verification)

**Pictures** .jpg .png

**Video (v & v+ models)** mjpeg, MKV, WebM

**Data messages** JSON format

### GENERAL

**Ingress protection** IP54

**Operating temperatures** -30 °C to 50 °C  
-22 °F to 122 °F

**Warranty** 2 year

