

NL CAMERA

Datasheet 90019000-L001



The **NL Camera** is a smart acoustic device for locating leaks in compressed-air systems. The NL Camera automatically detects leaks by the sound that they emit, even in loud industrial environments. The device is lightweight, easy to use, and offers industry-leading performance.

The 124 microphones of the NL Camera allow leak detection in a wide field of view and from extended range. Leak location is up to 10 times faster than with traditional methods. The NL Camera instantly shows the located leaks on camera view, allowing users to pinpoint and report leaks effortlessly.

The NL Camera analyzes leaks in real time, utilizing its built-in processing power. Users can also upload leak data and images to the included NL Cloud service for deeper analysis and reporting. The NL Camera Viewer and NL Camera Viewer Pro offline software are for those who cannot use WiFi.

- **Save up to 20–40% of all energy used for compressed air.**
- **Reduce CO2 emissions.**
- **Save inspection time and costs.**
- **Get ISO 50001 compatible reporting.**

Technical Specifications

Acoustic Specifications

Acoustic measurement	124 low-noise MEMS microphones, real-time sound visualization
Sensitivity	<-15 dB
Dynamic range	>120 dB
Bandwidth	2 kHz to 35 kHz, adjustable range
Distance	From 0.3 m (1.0 ft) up to and above 130 m (430 ft)
Leak rate	In typical industrial environment: >0.032 l/min @ 3 bar from 3 m (9.8 ft) >0.05 l/min @ 3 bar from 10 m (32.8 ft) Absolute minimum detection in quiet environment: 0.016 l/min @ 1.2 bar from 0.3 m (1.0 ft)
Leak localization & detection	Automatic leak recognition

User Interface

Display	5 in, 800 × 480 resistive touchscreen
Brightness	1000 cd/m ² (adjustable)
Snapshot resolution	800 x 480
Video frame rate	25 fps (optical image) / 30 fps (acoustic image)
Zoom	2x digital zoom

Communication and Data Storage

Wireless data transfer	IEEE 802.11.b/g/n/ac
Storage, internal	2000 snapshots (typical)
Storage, external	8 GB USB mass storage, 500 snapshots (typical)
Camera power input	Nominal input voltage: 12 V _{dc} Max input: 15 VDC, 2.5 A
External battery	LiFePO ₄ 84 Wh, 12 VDC Use time 6 h, charge time 4-6 h Max output: 13.8 V, 4.0 A
Battery charger	Input: 100-240 V _{ac} ~ 50/60 Hz 1.3-1.5 A Max output: 13.8-14.6 VDC, 4 A (depends on the charger provided)
Internal battery	Li-Ion 6 Wh (only for backup purposes)

Environmental

Operating and storage temperature range	-10°C – +50°C (14°F – 122°F)
Charging temperature	0°C – +40°C (32°F – 104°F)
Humidity	Recommended 0–90%
Ingress Protection	IP51

Physical data

Camera size & weight	273 × 170 × 125 mm (10.7 × 6.7 × 4.9 in), 980 g (2.2 lb)
Battery size & weight	90 × 145 × 65 mm (3.5 × 5.7 × 2.6 in), 985 g (2.2 lb)
Total weight	2.9 kg (6.4 lb) (includes all accessories)

Supported Languages

Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese