



The **NL Camera** is a smart acoustic device for locating leaks in compressed-air systems.

The NL Camera automatically locates leaks by the sound that they emit even in loud industrial environments. It 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. This helps identifying leaks up to 10 times faster than with traditional methods. The located leaks are instantly superimposed on the camera view allowing the user to pinpoint and report leaks visually.

Leaks are analyzed in real time utilizing the built-in processing power. Leak information and images can be uploaded to the NL Cloud for deeper analysis and reporting.

- **Save up to 40–50% 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, accuracy	<0 dB
Dynamic range	>120 dB
Bandwidth	2 kHz to 31 kHz, adjustable range
Distance	From 0.3 m (1.0 ft) up to 100 m (328 ft)
Leak detection	<ul style="list-style-type: none"> • >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)

User Interface

Display Size	5 in, 800 × 480
Color	24 bit RGB
Brightness	1000 cd/m ² (adjustable)
Input device	Resistive touchscreen
Video image resolution	1640 × 1234
Video frame rate	25 fps
Acoustic image frame	30 fps
Zoom	2x digital zoom

Communication and Data Storage

Wireless data transfer	Wi-Fi 2.4 GHz and 5 GHz IEEE 802.11 b/g/n/ac wireless LAN
Storage, internal	32 GB SD card, non-removable
Storage, external	8 GB USB mass storage, provided with the device
Power supply	Nominal input voltage: 12 V Max input: 15 V 2 A
External battery	LiFePO 12 V 7 Ah 84 Wh, Usage: 7 h (up to) Charge time: 4 to 6 h Battery charger Input: 100–240 V ~ 50/60Hz 1.5 A Max output: 13.8 V, 4.0 A

Environmental

Operating and storage temperature range	-10 °C ~ +50 °C
Humidity	Recommended 0 to 90 %

Physical data

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