



The **NL Camera** is an easy-to-use, stand-alone device for detecting partial discharge problems in high voltage electrical systems. The NL Camera utilizes 124 microphones to find sounds emitted by partial discharges – even when they are completely inaudible to the human ear. The located partial discharges are instantly superimposed on the camera view allowing the user to pinpoint and report possible problems visually.

Partial discharges can be located quickly from the ground during routine inspections. The NL Camera detects problems in power grids from up to 100 meters away. Sound appears even before components start to heat up, and with The NL Camera problems can be recognized at an early stage.

*Is it a bad connection? Perhaps a faulty insulator?*  
 In the NL Cloud, the discharge is instantly categorized according to our algorithms for AC partial discharges.

## Technical Specifications

### Acoustic Specifications

<b>Acoustic measurement</b>	124 low-noise MEMS microphones, real-time sound visualization
<b>Sensitivity, accuracy</b>	<0 dB
<b>Dynamic range</b>	>120 dB
<b>Bandwidth</b>	2 kHz to 31 kHz, adjustable range
<b>Distance</b>	From 0.3 m (1.0 ft) up to 100 m (328 ft) Recommended distance 10–15 m
<b>Discharge classification &amp; analysis</b>	<ul style="list-style-type: none"> <li>• Discharge into air</li> <li>• Surface discharge</li> <li>• Floating discharge</li> <li>• Discharge inside component</li> <li>• PD pattern</li> </ul>
<b>Discharge detection</b>	Automatic detection 50/60 Hz

### User Interface

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

### Communication and Data Storage

<b>Wireless data transfer</b>	Wi-Fi 2.4 GHz and 5 GHz IEEE 802.11 b/g/n/ac wireless LAN
<b>Storage, internal</b>	32 GB SD card, non-removable
<b>Storage, external</b>	8 GB USB mass storage, provided with the device
<b>Power supply</b>	Nominal input voltage: 12 V Max input: 15 V 2 A
<b>External battery</b>	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

<b>Operating and storage temperature range</b>	-10 °C–+50 °C
<b>Humidity</b>	Recommended 0 to 90 %

### Physical data

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

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