

# LPR Annual Camera Maintenance Suggestions

## 1. Physical & Lens Care

Since the Picopak relies on high-speed image capture (60 fps) and internal OCR (Optical Character Recognition), image clarity is your top priority.

- **Lens Cleanliness:** Dust, mud, or road salt can degrade reading accuracy by 20-30%. Clean the lens weekly (or daily in harsh weather) using a **microfiber cloth** and a lens-safe solution. Never spray the solution directly onto the camera; apply it to the cloth first.
- **Check for Obstructions:** Ensure the camera's field of view is clear. For mobile setups, check that vehicle parts (like a hood or mirror) or mounting brackets haven't shifted into the frame.
- **Housing Integrity:** Periodically inspect the aluminum casing for cracks or signs of impact. While it is **IP67-rated** (waterproof and dustproof), a significant hit can compromise the seals.

## 2. Connection & Power Maintenance

The Picopak is low-energy (approx. 6W) and typically powered via 12/24 VDC.

- **Cable Inspection:** Mobile environments involve vibration and movement. Regularly check the **Amphenol connectors** and cables for fraying, oxidation, or loose connections.

- **Waterproofing Seals:** Ensure the RJ45 protective cover is securely tightened (recommended torque is **0.8 to 1.5 N·m**) to prevent water ingress into the network port.
- **Battery Health:** If using a portable battery kit, verify the charge levels and connector integrity to prevent sudden system shutdowns, which can occasionally corrupt data logs.

### 3. Software & Firmware Management

Survision cameras are "smart" devices with AI-powered firmware that requires periodic updates to recognize new license plate designs or syntaxes.

- **Firmware Updates:** Survision typically releases updates **2-3 times a year**. These are critical for maintaining high accuracy as vehicle plate styles change.
- **Remote Monitoring (Survision Guard):** It is highly recommended to use the **Survision Guard** service. This tool remotely monitors the camera's "health," including internal temperature, power failures, and "Confidence Levels" (how sure the camera is of its own readings).
- **Accuracy Audits:** Perform a quarterly test by comparing the camera's output against a manual log of 10-20 plates to ensure the "Confidence Ratio" hasn't drifted due to focus or vibration issues.

### 4. Technical Specifications Summary

<b>Fe at ur e</b>	<b>Re qui re me nt / Li mi t</b>
<b>Op era tin g Te mp</b>	- 40° C to +5 5°C (- 40° F to +1 31° F)

<b>Fe at ur e</b>	<b>Re qui re me nt/ Li mi t</b>
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<b>Po we r Su ppl y</b>	12/ 24 VD C (+/ - 3V)

<b>Fe at ur e</b>	<b>Re qui re me nt/ Li mi t</b>
<b>MT BF</b>	56, 00 0 ho urs mi ni mu m (ap pro x. 6.4 yea rs)

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