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

Feature	Requirement / Limit
Operating Temp	-40°C to +55°C (-40°F to +131°F)

Feature	Requirement/ Limit
Protection Rating	IP67 (Dust tight / Immersion up to 1m)
Power Supply	12/24 VDC (+/- 3V)

Feature	Requirement/Limit
MTBF	56,000 hours minimum (approx. 6.4 years)

Revision #2
Created 20 March 2026 11:22:56
Updated 20 March 2026 16:13:54