



## SICK PSIRT Security Advisory

## Vulnerability in SICK Lector8xx and SICK InspectorP8xx

Document ID: SCA-2025-0002 Publication Date: 2025-02-14

CVE Identifiers: CVE-2025-0592, CVE-2025-0593

Version:

## Summary

SICK has found two vulnerabilities that affect the SICK Lector8xx and SICK InspectorP8xx. The vulnerabilities may allow a remote low priviledged attacker to run arbitrary shell commands by manipulating the firmware file or executing low-level functions.

SICK is currently not aware of any public exploits.

### List of Products

Product	Affected by
SICK InspectorP8xx firmware versions <3.11.1	CVE-2025-0592
	Status: Known Affected Remediation: Vendor fix
	CVE-2025-0593
	Status: Known Affected
	Remediation: Vendor fix
SICK Lector8xx firmware versions < 2.4.0	CVE-2025-0592
	Status: Known Affected
	Remediation: Vendor fix
	CVE-2025-0593
	Status: Known Affected
	Remediation: Vendor fix







## **Vulnerability Overview**

## CVE-2025-0592 Improper Enforcement of Message Integrity During Transmission in a Communication Channel

**Summary:** The vulnerability may allow a remote low priviledged attacker to run arbitrary shell commands by manipulating the firmware file and uploading it to the device.

CVE-2025-0592 has been assigned to this vulnerability.

CVSSv3.1 base score: 8.8

CVSSv3.1 vector string: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

CWE identifier: CWE-924 (Improper Enforcement of Message Integrity During Transmission in a Com-

munication Channel)

# CVE-2025-0593 Improper Neutralization of Special Elements used in a Command ('Command Injection')

**Summary:** The vulnerability may allow a remote low priviledged attacker to run arbitrary shell commands by using lower-level functions to interact with the device.

CVE-2025-0593 has been assigned to this vulnerability.

CVSSv3.1 base score: 8.8

CVSSv3.1 vector string: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

CWE identifier: CWE-77 (Improper Neutralization of Special Elements used in a Command ('Command

Injection'))

#### Remediations

#### Vendor Fix for CVE-2025-0592

<u>Details</u>: Users are strongly recommended to upgrade to the latest release of the Lector8xx (>=2.4.0) and the InspectorP8xx (>=3.11.1) respectively that includes a patch for the vulnerability. It is also recommended to set a secure password, please refer to the respective operating instructions, linked in the reference section.

#### Valid for:

- SICK InspectorP8xx firmware versions <3.11.1</li>
- SICK Lector8xx firmware versions < 2.4.0







#### Vendor Fix for CVE-2025-0593

<u>Details</u>: Users are strongly recommended to upgrade to the latest release of the Lector8xx (>=2.4.0) and the InspectorP8xx (>=3.11.1) respectively that includes a patch for the vulnerability. It is also recommended to set a secure password, please refer to the respective operating instructions, linked in the reference section.

#### Valid for:

- SICK InspectorP8xx firmware versions <3.11.1</li>
- SICK Lector8xx firmware versions <2.4.0</li>

## **General Security Practices**

### General Security Measures

As general security measures, SICK recommends to minimize network exposure of the devices, restrict network access and follow recommended security practices in order to run the devices in a protected IT environment.

### **Vulnerability Classification**

SICK performs vulnerability classification by using the CVSS scoring system (*CVSS v3.1*). The environmental score is dependent on the customer's environment and can affect the overall CVSS score. SICK recommends that customers individually evaluate the environmental score to achieve final scoring.

## Resources

SICK PSIRT Security Advisories:

https://sick.com/psirt

SICK Operating Guidelines:

https://cdn.sick.com/media/docs/1/11/411/Special\_information\_CYBERSECURITY\_BY\_SICK\_en\_IM008 4411.PDF

ICS-CERT recommended practices on Industrial Security:

https://www.cisa.gov/resources-tools/resources/ics-recommended-practices

CVSS v3.1 Calculator:

https://www.first.org/cvss/calculator/3.1







Lector85x operating instructions:

https://cdn.sick.com/media/docs/8/48/648/operating\_instructions\_lector85x\_can\_i\_o\_image\_based\_code\_reader\_en\_im0101648.pdf

Inspector83x operating instructions:

 $https://cdn1.npcdn.net/userfiles/19423/attachment/5023455/20240604\_86cc78525f735019023e2f3f65d5c9b9/operating\_instructions\_inspector83x\_2d\_machine\_vision\_en\_im0108639.pdf$ 

## History

Version	Release Date	Comment
1	2025-02-14	Initial version

