

# SICK PSIRT

## Security Advisory

### Vulnerability in SICK Lector8xx and SICK InspectorP8xx

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Document ID: SCA-2025-0002  
Publication Date: 2025-02-14  
CVE Identifiers: CVE-2025-0592, CVE-2025-0593  
Version: 2

### Summary

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SICK has found two vulnerabilities that affect the SICK Lector8xx and SICK InspectorP8xx. The vulnerabilities may allow a remote low privileged 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

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Product	Affected by
<b>SICK InspectorP8xx firmware versions &lt;3.11.1</b>	<a href="#">CVE-2025-0592</a> Status: Known Affected Remediation: Vendor fix
	<a href="#">CVE-2025-0593</a> Status: Known Affected Remediation: Vendor fix
<b>SICK Lector8xx firmware versions &lt;2.4.0</b>	<a href="#">CVE-2025-0592</a> Status: Known Affected Remediation: Vendor fix
	<a href="#">CVE-2025-0593</a> Status: Known Affected Remediation: Vendor fix

## Vulnerability Overview

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

**Summary:** The vulnerability may allow a remote low privileged 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 Communication Channel)

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

**Summary:** The vulnerability may allow a remote low privileged 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

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### Vendor Fix for CVE-2025-0592

**Details:** 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
- SICK Lector8xx firmware versions <2.4.0

## Vendor Fix for CVE-2025-0593

Details: 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
- SICK Lector8xx firmware versions <2.4.0

## 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://www.sick.com/media/docs/9/19/719/special\\_information\\_sick\\_operating\\_guidelines\\_cybersecurity\\_by\\_sick\\_en\\_im0106719.pdf](https://www.sick.com/media/docs/9/19/719/special_information_sick_operating_guidelines_cybersecurity_by_sick_en_im0106719.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>



**TLP:WHITE**

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](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](https://cdn1.npcdn.net/userfiles/19423/attachment/5023455/20240604_86cc78525f735019023e2f3f65d5c9b9/operating_instructions_inspector83x_2d_machine_vision_en_im0108639.pdf)

## History

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Version	Release Date	Comment
1	2025-02-14	Initial version
2	2025-07-30	Updated Advisory: URL for SICK Operating Guidelines has been updated