



# CYBER ADVISORY

**Cal OES**  
GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES

CALIFORNIA CYBERSECURITY INTEGRATION CENTER



CYBER ADVISORY

TLP:CLEAR

4 November 2024

## Critical Zero-day Vulnerability in PTZ Cameras

PTZoptics

OS Compromise

Bypass Security

RCE

The California Cybersecurity Integration Center (Cal-CSIC) has become aware of two critical vulnerabilities known as CVE-2024-8956<sup>1</sup> and CVE-2024-8957.<sup>2</sup> These two vulnerabilities affect PTZOptics PT30X-SDI/NDI-xx models with firmware versions prior to 6.3.40. When exploited together, they allow an unauthenticated attacker to execute remote code with operating system (OS)-level privileges, gaining full control over the system.<sup>3</sup> CVE-2024-8956, with a CVSS 3.x of 9.1, introduces insufficient authentication to /cgi-bin/param.cgi when requests are sent without a HTTP Authorization header. This can lead to an adversary leaking sensitive data such as usernames, password hashes, and configuration details. Additionally, the attacker can update individual configuration values or overwrite the whole file. CVE-2024-8957, with a CVSS 3.x of 9.8, enables an attacker to execute arbitrary OS commands by exploiting the camera's insufficient validation of the ntp\_addr value when the ntp\_client is started. A technical deep dive for these CVE's and a proof of concept is available.<sup>4</sup>

The Cal-CSIC recommends immediately updating to the latest [PTZoptics firmware version](#).

For further information on applying updates please refer to [PTZoptics Documentation](#).

### Organization, Source, Reference, and Dissemination Information

#### Organization Description

California Government Code § 8586.5 established the California Cybersecurity Integration Center (Cal-CSIC) as the central organizing hub of state government's cybersecurity activities, including information sharing, intelligence analysis, incident response, and overarching cybersecurity strategy. The Cal-CSIC is responsible for reducing the likelihood and severity of cyber incidents that could damage California's economy, critical infrastructure, and public or private sector networks in our state.

CAL-CSIC-202411-002

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<b>Source Summary Statement</b>	This report was compiled from a variety of sources, predominately open-source reporting.
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<sup>1</sup> National Vulnerability Database; “CVE-2024-8956 Detail” <https://nvd.nist.gov/vuln/detail/CVE-2024-8956>; accessed 4 November 2024

<sup>2</sup> National Vulnerability Database; “CVE-2024-8957 Detail” <https://nvd.nist.gov/vuln/detail/CVE-2024-8957>; accessed 4 November 2024

<sup>3</sup> Bleeping Computer; “Hackers target critical zero-day vulnerability in PTZ cameras” <https://www.bleepingcomputer.com/news/security/hackers-target-critical-zero-day-vulnerability-in-ptz-cameras/>; accessed 4 November 2024

<sup>4</sup> GreyNoise; “GreyNoise Intelligence Discovers Zero-Day Vulnerabilities in Live Streaming Cameras with the Help of AI” <https://www.labs.greynoise.io/grimoire/2024-10-31-sift-0-day-rce/>; accessed 4 November 2024

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