# LibraryRunCatcher

Operational Manual - Version 5.0

# ⓘ Project Overview

**LibraryRunCatcher** is a specialized security system designed for library and classroom management. It identifies real-time behavioral violations using AI pose estimation and acoustic frequency monitoring.

# Monitoring Dashboard

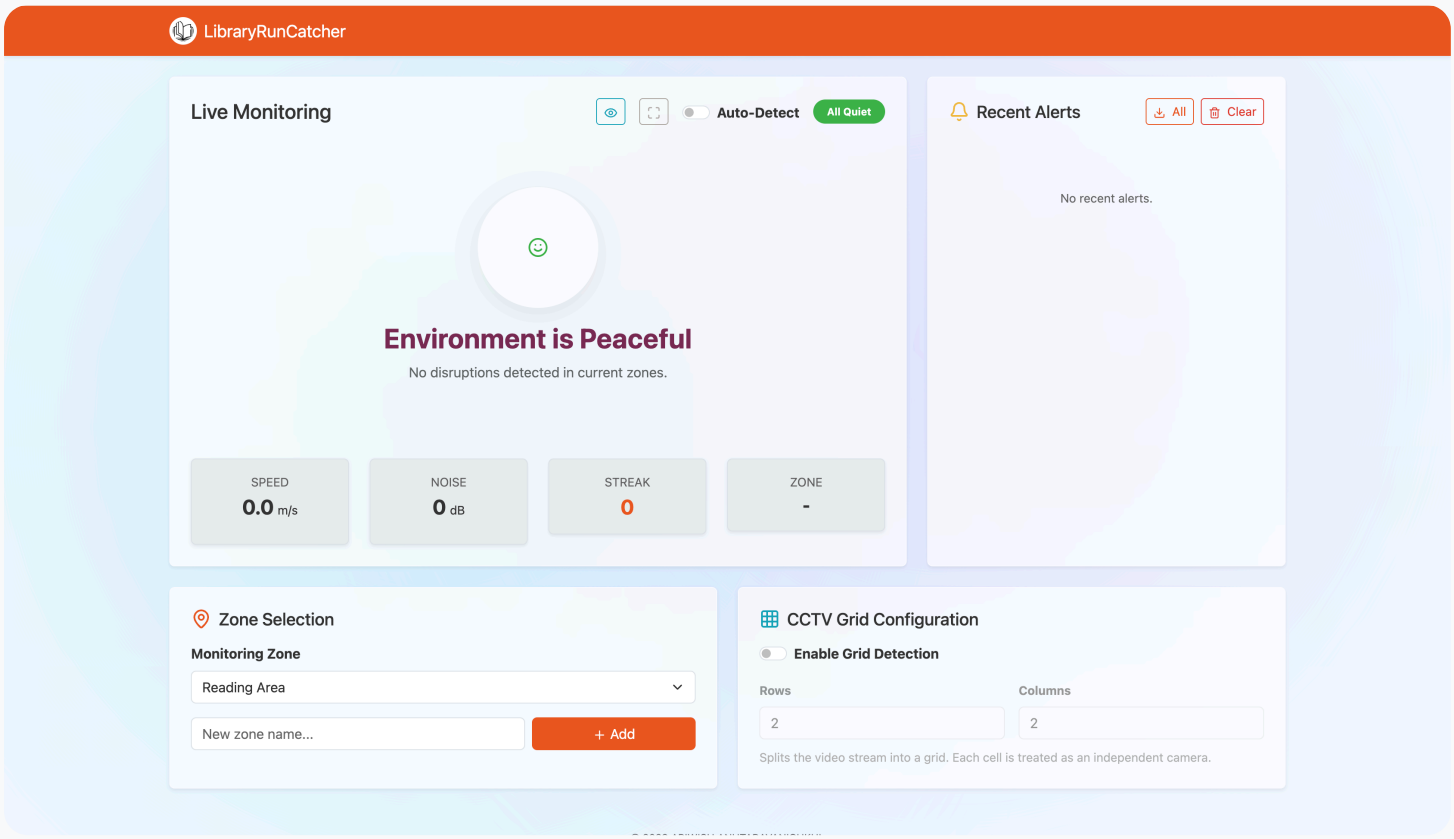


*Figure 1: Live dashboard with real-time speed and noise meters.*

# Librarian's Watch (NEW)

The Librarian's Watch feature allows you to turn any smartphone or wearable device into a remote haptic pager. This is critical for librarians who need to move around the building while remaining "on alert."

1. **Generate Code:** On the monitoring laptop, click the icon in the "Librarian's Watch" section.

2. **Sync Device:** Open the same URL on your phone/watch and enter the generated Room Code.

3. **Go Mobile:** When a runner is detected, your phone will vibrate and chime instantly.

> **Pro Tip:** Keep the browser tab open on your phone. Most modern smartphones will vibrate even if the phone is in your pocket, as long as the page is active.

# CCTV Grid & CCTV Cell Mapping

Automatically map detection triggers to specific virtual camera feeds in a multi-camera grid layout (2×2, 3×3, etc.).

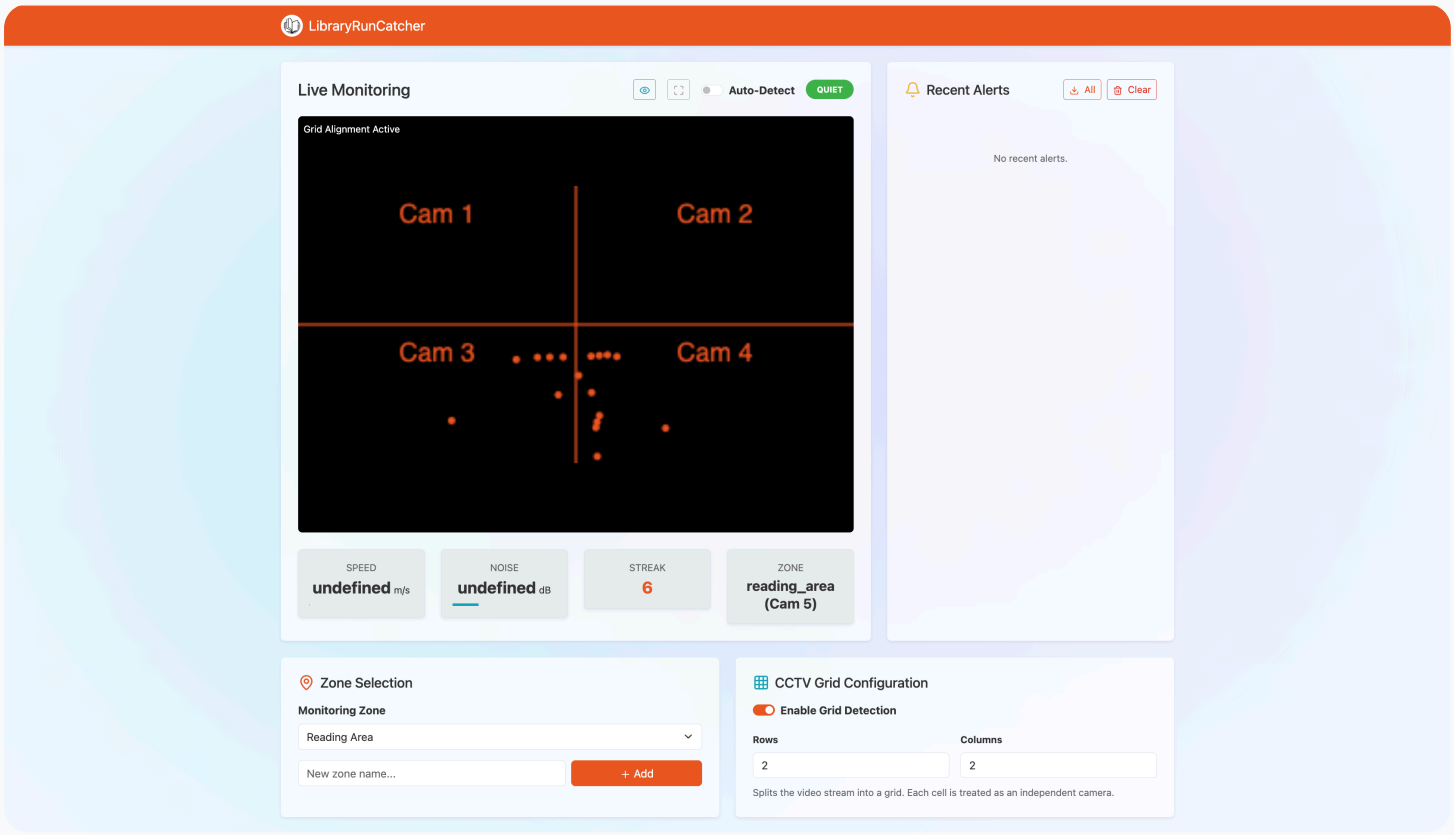


*Figure 2: Configuring multi-camera grid detection.*

# Forensic Evidence Reports

Incident reports now feature **Kinetic Path Trails** and **Target Framing** to identify exactly who triggered the alarm.

# LibraryRunCatcher

Incident Accountability Report

## Incident Details

Type: RUNNING DETECTED

Zone: reading_area

Date/Time: 1/23/2026, 4:23:58 PM

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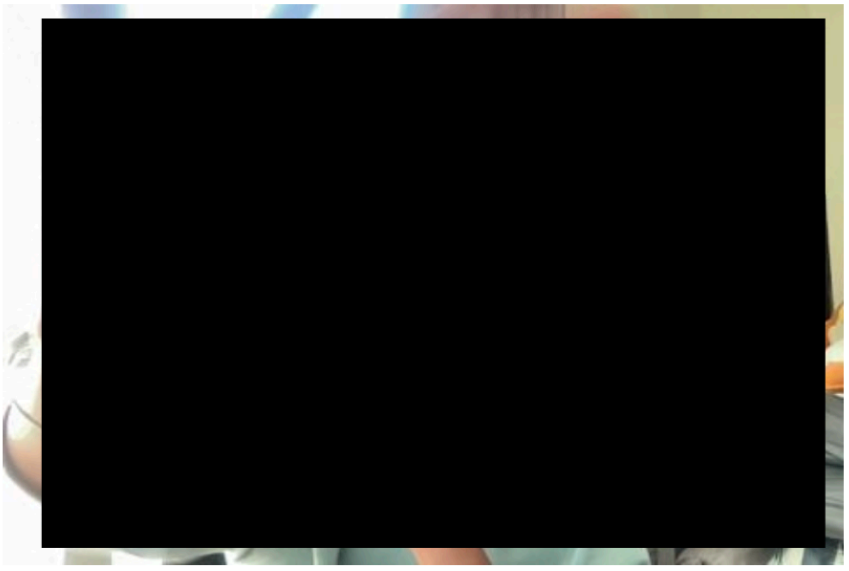
### Sensor Data

Movement Speed: undefined m/s

Noise Level: undefined dB

### Visual Evidence



Teacher Signature

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*Figure 3: Incident report with visual targeting and speed/noise metadata.*

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