

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

The screenshot displays the 'Monitoring Dashboard' interface. At the top, there is a header bar with the title 'Monitoring Dashboard' and a user icon labeled 'LibraryRunCatcher'. Below the header, the main dashboard area is divided into several sections:

- Live Monitoring:** A central circular graphic with a green smiley face. Below it, the text 'Environment is Peaceful' is displayed in a purple font, followed by the subtext 'No disruptions detected in current zones.' To the left of the circle are four status boxes: SPEED (0.0 m/s), NOISE (0 dB), STREAK (0), and ZONE (-). Above these boxes are three small icons: a magnifying glass, a camera, and a gear.
- Recent Alerts:** A section showing 'No recent alerts.' with a small bell icon. It includes buttons for 'All' and 'Clear' alerts.
- Zone Selection:** A section titled 'Zone Selection' with a location pin icon. It shows a dropdown menu 'Monitoring Zone' set to 'Reading Area', a text input field 'New zone name...', and a red 'Add' button.
- CCTV Grid Configuration:** A section titled 'CCTV Grid Configuration' with a camera icon. It includes a toggle switch for 'Enable Grid Detection', and input fields for 'Rows' (set to 2) and 'Columns' (set to 2). A descriptive note below states: 'Splits the video stream into a grid. Each cell is treated as an independent camera.'

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.

grid CCTV Grid & CCTV Cell Mapping

Automatically map detection triggers to specific virtual camera feeds in a multi-camera grid layout (2x2, 3x3, etc.).

The screenshot displays the LibraryRunCatcher software interface for configuring multi-camera grid detection. The main area shows a 2x2 grid of video feeds labeled Cam 1, Cam 2, Cam 3, and Cam 4. Below the grid are four status indicators: SPEED (undefined m/s), NOISE (undefined dB), STREAK (6), and ZONE (reading_area (Cam 5)). On the left, the 'Zone Selection' section includes a dropdown for 'Monitoring Zone' set to 'Reading Area' and a text input for 'New zone name...' with a '+ Add' button. On the right, the 'CCTV Grid Configuration' section has a toggle for 'Enable Grid Detection' (which is off) and fields for 'Rows' (2) and 'Columns' (2), with a note below stating 'Splits the video stream into a grid. Each cell is treated as an independent camera.'

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

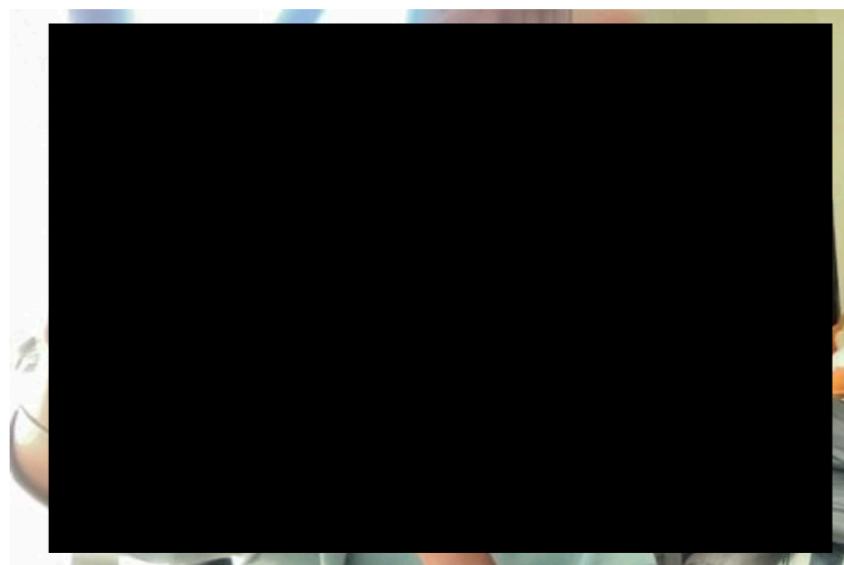
Date/Time: 1/23/2026, 4:23:58 PM

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.

