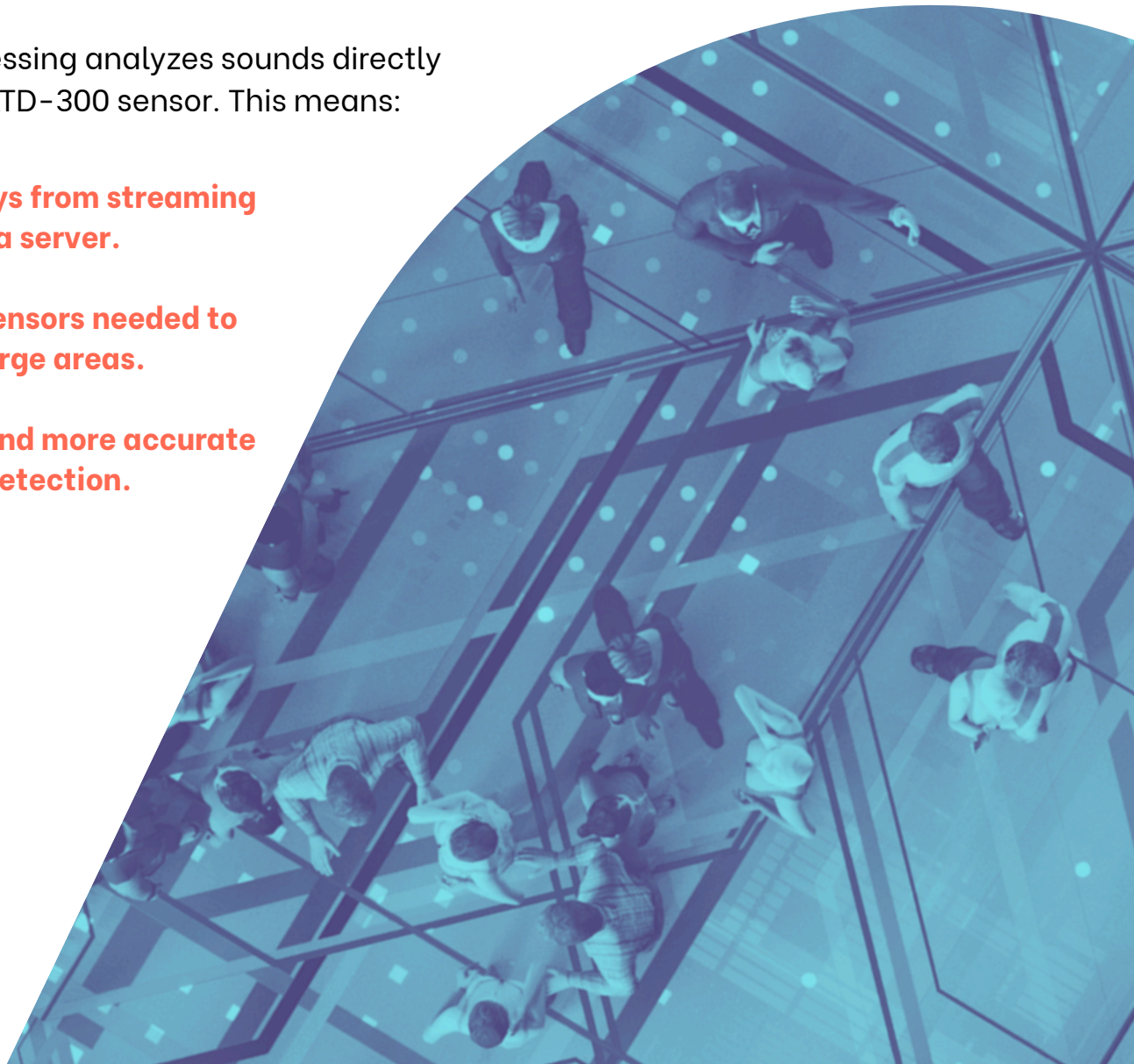
Why edge-processing matters

When seconds count, Acoem's ATD Gunshot Detection System is designed to detect, locate, and respond to gunshots in real time —within just 3 seconds.

The ATD-300 sensor empowers users with immediate situational awareness. Thanks to edge-processing technology, its innovative AI neural network processes signals directly within the sensor itself. This critical data is available when and where it's needed most, whether from a permanent installation or a single-sensor mobile deployment. The result? Immediate, actionable alerts for swift threat mitigation.

Edge-processing analyzes sounds directly within the ATD-300 sensor. This means:

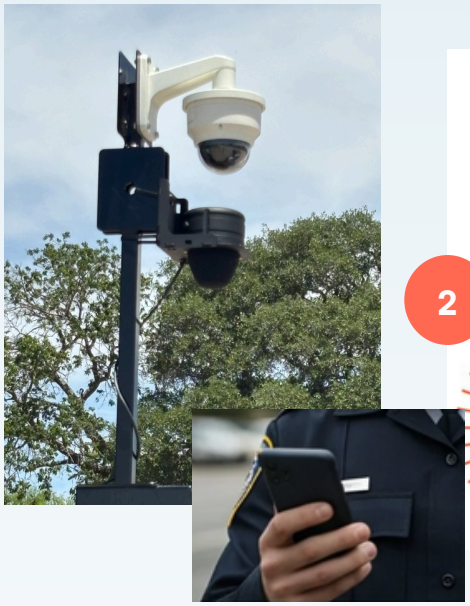
- **No delays from streaming data to a server.**
- **Fewer sensors needed to cover large areas.**
- **Faster and more accurate threat detection.**



How it works

When a sound over 100 decibels is detected, Acoem's AI neural network analyzes over 90 unique parameters to classify the sound. If identified as a gunshot:

1. The ATD-300 sensor locates the source of the shot within a 500-foot radius.
2. A PTZ camera slews to the target, sending a command to the VMS to display and bookmark the video.
3. Alerts are sent immediately.



Direct control of the camera allows the ATD-300 sensor to immediately direct video capture of the event, often capturing attackers before they lower the weapon or fire a second shot. This allows responders to act quickly to provide aid to victims, prevent further violence, or assess damage, while also capturing video evidence for investigations.

Here's why Acoem's ATD system with AI edge-processing stands out:
Speed: Detects and locates gunshots in just 3 seconds.
Accuracy: Filters out false positives like fireworks or cars using AI.
Privacy: Records only sounds above 100 decibels and identified as a gunshot, with no everyday conversations or extended audio captured.
Efficiency: Covers a 500-foot radius with a single sensor, reducing hardware and data streaming costs.

Explore how Acoem's edge-processing technology can make your community safe at acoematd.com