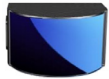




## ● Sensor Specification

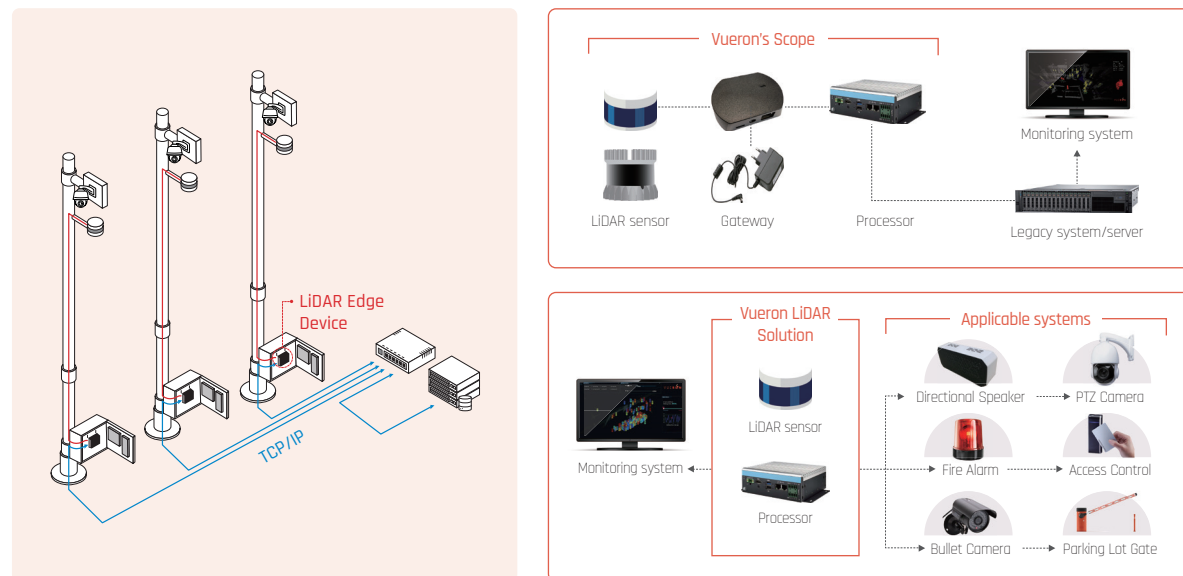
Solid-state LiDAR		Spinning-type LiDAR		Hybrid Solid-state LiDAR	
Coverage	180° * 40°	Coverage	360° * 86°	Coverage	120° * 25°
Detection Range	50m/sensor	Detection Range	30m/sensor	Detection Range	65m/sensor
Accuracy	100%	Accuracy	100%	Accuracy	100%
Operating Temperature	-40°C ~ 85°C	Operating Temperature	-20°C ~ 60°C	Operating Temperature	-40°C ~ 85°C
Weight	1.1kg	Weight	1kg	Weight	1kg

## ● Processor Specification

CPU	6Core 1.9Ghz
GPU	384 Nvidia CUDA
Storage	16GB eMMC
Power	10W / 15W / 20W
Size	103 x 90.5 x 34.66mm

\* Additional specifications beyond the mentioned sensors&processors can be discussed based on specific requests.

## ● System Configuration



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YouTube



VUERON

**SMART**  
 **CROWD**  
**ANALYTICS**

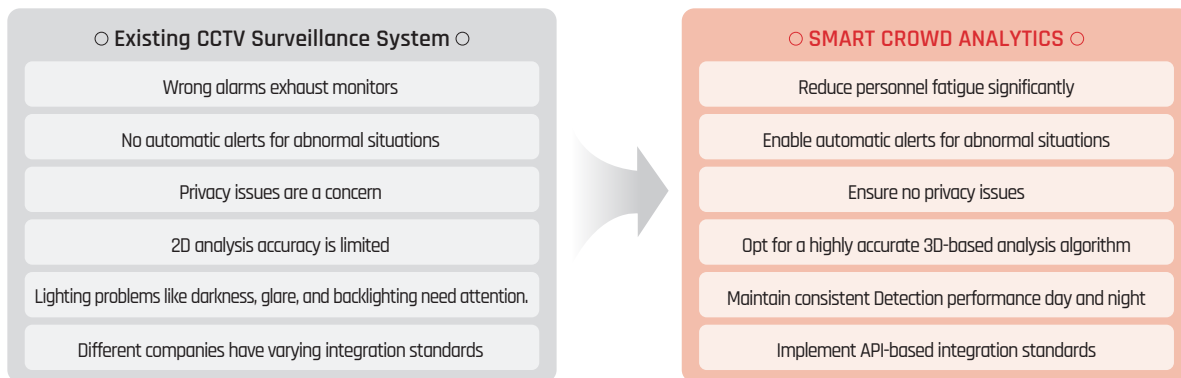
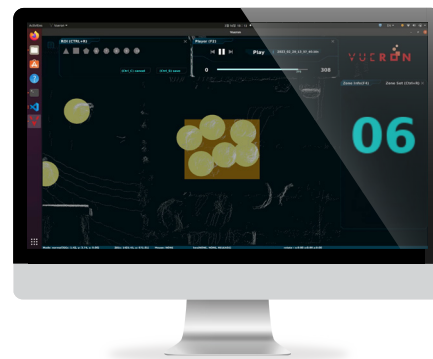


# SMART CROWD ANALYTICS

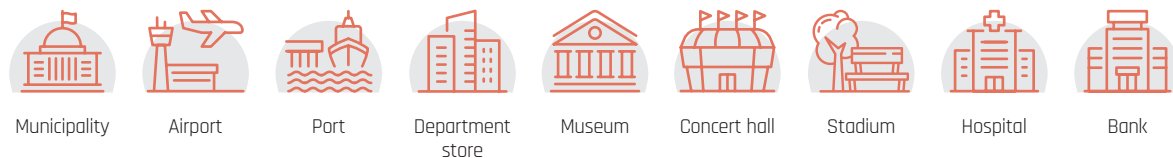


The Seoul Metropolitan Government has selected  
The very first smart city crowd management system based  
on ultra-precise object detection.

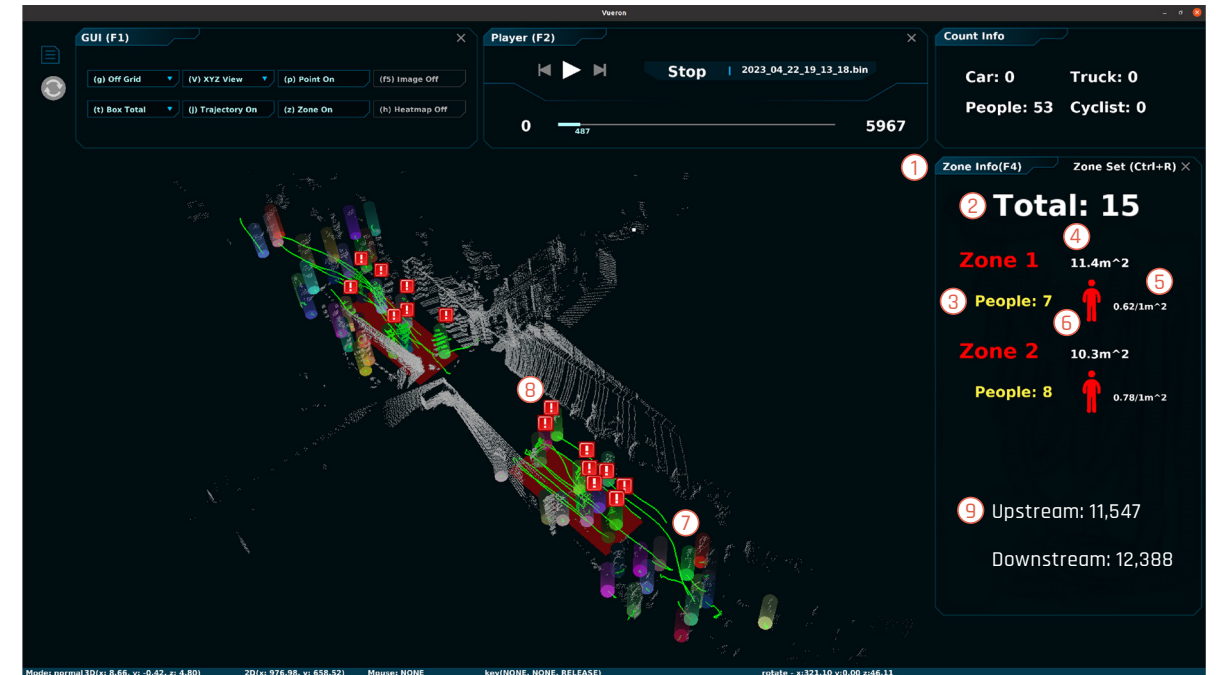
Following the Itaewon tragedy, the Ministry of the Interior and Safety in South Korea recognized the urgency of responding swiftly to dangerous situations in crowded places. They wanted a system capable of real-time analysis of people's movements and issuing alerts based on crowd density. We, Vueron, went beyond the limitations of existing video analysis and created the world's first LiDAR Smart Crowd Analytics. This tech can accurately detect and study areas with more than six people per square meter, even in low light. It looks at things like how far apart people are, how fast they're moving, and their sizes using 3D data. Unlike older video-based systems, our approach prioritizes people's privacy while still collecting valuable data. This solution not only enhances surveillance of high-risk zones but also offers valuable business insights. For instance, it aids in understanding the utilization of commercial areas and commuting patterns.



## Smart Crowd Analytics Applications



## Smart Crowd Analytics Basic Features



- ① Zone Information
- ② Total No. of objects
- ③ No. of objects in Zone
- ④ Area of Zone
- ⑤ No. of objects per 1m<sup>2</sup>
- ⑥ Alarming for crowd level
- ⑦ Trajectory
- ⑧ Sending alerts
- ⑨ People flow Analysis



- Smart city design
- Urban operational planning
- Various business district analyses

Vueron's Smart Crowd Analysis provides precise pedestrian traffic data, unlike less accurate video and base station data. It helps service providers and users make informed decisions, paving the way for true smart cities.

### Smart Crowd Analytics Advanced Features

- Crowd detection
- Children detection
- Stationary object detection
- Running object detection
- Nighttime object detection

### Smart Crowd Analytics Examples

