Our New Suite of AI-Based Analytics

AI

ANALYTICS INSIDE

✴ VICON

Introducing Our New AI-Based Analytics Cameras: The Roughneck AI Series

AI-based analytics allow our cameras to distinguish people and vehicles from other objects in a scene. This is referred to as "object classification," and the camera's ability to classify those objects (people and vehicles) enables object-based recording. This means Valerus records only when the camera detects the selected type of object in the scene.

Filter out non-relevant video for faster incident resolution

Respond to genuine threats quicker, and with fewer resources

Reduce storage requirements by limiting recording to just object-based motion

Diminish nuisance motion alarms caused by shadows, swaying trees, etc.

Filter Out All Non-Relevant Video from Your Post-Incident Searches

Museum Search

You can apply object classification filters to your search, and limit your results to just people and/or vehicles, as opposed to "motion in general." This delivers more meaningful search results, and reduces the amount of non-relevant video you have to watch.

Event/Alarm Search

Search for events triggered by the object (i.e., people or vehicle) you specified in your camera. For example, if you indicated on the camera that you only want to see when people (as opposed to cars or other objects) enter a specific area, your search results will only include events triggered by people.

Museum Search Scenario: Vehicle break-in in the parking lot during normal business hours (8AM – 5PM). You use Museum Search to find the event based on the parking space.

Without Object Classification	With Object Classification
Found: 28 events	Found: 5 events
Events Include: • Shadows passing over region • Vehicles passing between camera and region • Swaying bushes behind region • Other people passing by region • The incident in question	Events Include: • Non-relevant people passing by region • The incident in question
Est. Time to Review: **10 minutes**	Est. Time to Review: **2 minutes**

(Assumes about 20 seconds to load and review of each clip)

Be Notified—In Real-Time—About Events that are Important to You

These new object classification analytics combine with our current suite of analytics to trigger real-time, meaningful alarms. It's more than just a motion detection alarm; it's motion triggered specifically by a person and/or vehicle.

Because the camera is only looking for events involving people and/or vehicles, you will not be inundated with those nuisance alarms commonly triggered by fast moving shadows, trees swaying, and other environmental distractions that can activate a motion-based alarm.

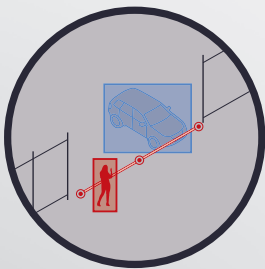Live monitoring becomes easier, allowing you to manage more cameras.

Make Object-Based Classification Work for You

Here are some use cases for you to consider, whether you're performing live monitoring or forensic searches.

Motion Detection

Show Me People
A car was stolen from my parking lot. I want to know about instances of a person approaching the area around the car when it was in my lot, but I don't want to be distracted by non-relevant movement from shadows, trees, and other cars driving by.

Show Me Vehicles
I want to see every time a vehicle pulls into our loading dock area, but I don't need to know about the dozens of people who pass by that area each day, or be distracted by the shadows, passing clouds, and blowing tree branches that can trigger motion detection.

Intrusion
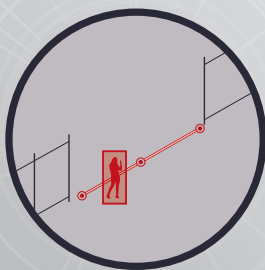
Show Me People
We've been having issues with people breaking into our construction area after hours and vandalizing the site. I want to know about instances of people being onsite at night, but I don't need to know about the tons of construction equipment that's also there.

Show Me Vehicles
My facility's parking garage closes at 8PM, and we've been having issues with cars being parked there overnight. I want to know about instances of vehicles still parked in the garage after closing time.

Loitering
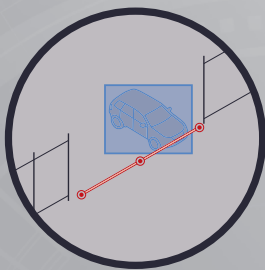
Show Me People
We've been having issues with catalytic converters being stolen from cars in our long-term lot. I want to know when people are lingering in the lot for longer than five minutes, but I don't need to know about all of the stationary vehicles in that lot.

Show Me Vehicles
I want to know about instances of a vehicle stopped at an entrance gate but not proceeding through that gate. This could be indicative of a non-registered visitor waiting for a valid badge holder to come grant them entrance to our secured facility.

By pairing traditional analytics (e.g., motion detection, intrusion, and line cross) with object-based classification (e.g., the ability to determine a person or vehicle within a scene), you'll be able to address longstanding issues in innovative new ways.

Line Cross
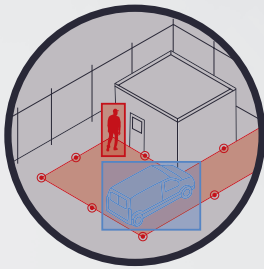
Show Me People
Our highly-trafficked main gate has vehicles coming and going all day and night, but pedestrians on foot are strictly prohibited from using that entrance/exit. I want to know when a person crossed that line, but I don't need to know about the thousands of daily vehicle crossings.

Show Me Vehicles
We're trying to crack down on vehicles who exit through the entrance-only ingress of our garage. I want to know when a car is going the wrong way out an entrance.

Tailgating / Piggybacking
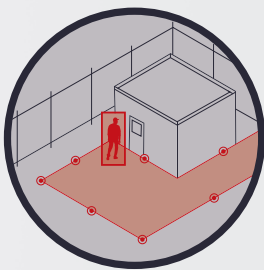
Show Me People
We're trying to keep track of how many deliveries we're getting through our loading dock door on a daily basis. I want to know each time a person goes through that door, but I don't want my camera to pick up instances of an accompanying handcart, which can often be misidentified as tailgating.

Show Me Vehicles
We've been having an issue with vehicular tailgating at our facilities entrance. I want to know when a car or truck tailgates, but I don't need to know about instances of a person coming in on foot behind that vehicle.

Crowding
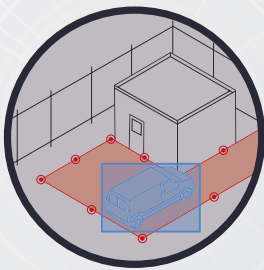
Show Me People
There should never be more than two occupants in a prison cell at a given time. I want to know about instances where there are three or more people in a cell at the same time, without being distracted by other anomalies that could be identified as a person (e.g., a shadow, reflection, etc.).

Show Me Vehicles
We have a small parking area—12 spots total—dedicated for patients only (but we also have a remote lot that we can open if necessary). I want to know whenever there are more than 12 vehicles in our patients' lot, but I don't want people to be included in that count.

Save Money and Be More Efficient with Your Server Resources

There are a number of benefits to edge-based analytics and object classification recording.

- The analytics are performed on the camera, so there's no need for additional costly processing hardware.

- Sending less video over the network minimizes the network load and reduces storage requirements.

- Perform continuous recording in low-res (e.g., 720p) and then switch to hi-res (e.g., 4K) when object-based motion (person and/or vehicle) is detected. This way, recording is always available but doesn't put unnecessary strain on your storage and bandwidth requirements.
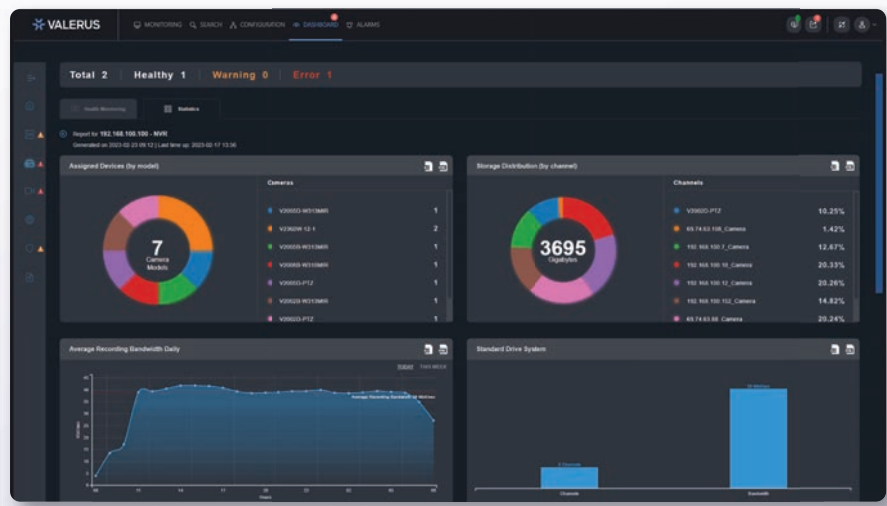
VICON

If you're a decision maker in your business, and you're ready to learn more about our end-to-end solutions, we invite you to contact your local Vicon Integrator or contact a Vicon Sales Rep directly.

Corporate Headquarters
Vicon Industries Inc.
Tel: 631.952.2288
Toll-Free Sales: +1.800.645.9116
Email: sales@vicon-security.com

European Headquarters
Vicon Industries Limited
Tel: +44 1489 566300
Sales: +44 1489 566310
Email: uksales@vicon-security.com

vicon-security.com