

# AXIS Object Analytics

## AI-based object detection and classification

AXIS Object Analytics is an intelligent video analytics application preinstalled on compatible Axis network cameras at no extra cost. It adds value to your camera by detecting and classifying humans and vehicles. And conditions you set for triggering alarms, such as an object entering an area or crossing a virtual line, allow you to create scenarios tailored to your own surveillance needs. Thanks to intelligent algorithms, it suppresses most common sources of false alarms, allowing you to focus on real threats. This scalable, edge-based analytics application requires minimum effort to set up. It supports various scenarios running simultaneously. And it integrates with the camera's event-management system and other network solutions as needed.

- > **Edge-based video analytics**
- > **Classifies humans and vehicles**
- > **Runs multiple scenarios simultaneously**
- > **Flexible and easy configuration**
- > **Preinstalled at no extra cost**



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Application		System integration	
<b>Supported devices</b>	For a complete list of compatible Axis cameras with an MLPU <sup>a</sup> or DLPU <sup>b</sup> , see <a href="http://axis.com">axis.com</a>	<b>Event streaming</b>	Supports event streaming to video management software (VMS). Integrates with camera event management system to enable event streaming to VMS and camera actions such as I/O control, notification, and edge storage. ONVIF <sup>®</sup> Motion Alarm event
<b>Configuration</b>	Through web browser: Chrome™ or Firefox®	<b>General</b>	
<b>Compute platform</b>	Edge	<b>Languages</b>	English
<b>Settings</b>	Up to 10 scenarios with individually configurable trigger conditions. Metadata overlay in one selected video resolution; highlights scenarios and adds color-coded bounding boxes around alarm-triggering objects. <b>MLPU<sup>a</sup> cameras:</b> Detect and classify objects as humans or vehicles. <b>DLPU<sup>b</sup> cameras:</b> Detect and classify objects as humans, vehicles, and types of vehicles: cars, buses, trucks, bikes (motorcycle/bicycle).	a. <i>MLPU = machine learning processing unit</i> b. <i>DLPU = deep learning processing unit</i>  Environmental responsibility: <a href="http://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a>	
Scenarios			
<b>Detection scenarios</b>	<b>Object in area:</b> One include area and up to 5 exclude areas (10-corner polygons). <b>Line crossing:</b> One virtual line (10 corners).		
<b>Typical applications</b>	Detecting objects at parking lots, industrial premises, public buildings, and warehouses.		
<b>Limitations</b>	Insufficient contrast can affect detection and classification performance. The resolution of video streams with metadata overlay enabled is limited to 1920 pixels in width and the corresponding height for the current aspect ratio.		