March 2023

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**Product guide specification**

**BOSCH MVC-IVA-BLD IVA Pro Buildings**

1. **Performance requirements**
	* 1. The video analytics software shall reliably detect, count, and classify persons and vehicles in crowded scenes. 50% of each object needs to be visible in order to be detected and tracked.
		2. The video analytics software shall be able to alert operators immediately as queues begin to form.
		3. The video analytics software shall cover pre-determined video analytics alarm rules such as line crossing, loitering, and object in a designated field, allowing for greater flexibility in deployment.
		4. The video analytics software shall ignore other, unwanted sources of motion in the environment, such as rain, snow, clouds, blowing leaves, lighting changes, or a shaking camera.
		5. The video analytics software shall provide the following object classes:
			1. Person
			2. Vehicles
		6. The video analytics software shall provide the following alarm and statistic tasks:
			1. Detect persons and vehicles within, entering, or leaving a single or multiple (up to three) defined detection zones in specified sequence or timing
			2. Detect multiple line crossings from a single line up to three lines combined in specified sequence or timing
			3. Detect persons and vehicles traversing a route
			4. Detect loitering in an area related to radius and time
			5. Detect persons and vehicles that have started or stopped moving
			6. Detect persons and vehicles with properties, such as size, direction, and aspect ratio, that change within a configured time according to specification
			7. Count persons and vehicles crossing a virtual line
			8. Count persons and vehicles within an area and alarm if a predefined threshold is reached
			9. Combine tasks using scripts
		7. The video analytics software shall be configurable to ignore specified image areas and small objects to enhance robustness.
		8. The video analytics software shall run in full on the camera without any need of external hardware or software.
		9. The video analytics software shall provide intelligence-at-the-edge technology which allows users to reduce bandwidth and storage in the absence of action and switch back to full image quality in case of video analytics alarms.
		10. The video analytics software shall be able to be used for full forensic search in which the rules can be changed within a video management system, even after the fact. New tasks shall be able to be defined and adapted for each search, and the recorded metadata shall then be scanned and evaluated accordingly for an event list. With forensic search, the video analytics software shall scan a huge recording database for events within seconds.
		11. The video analytics software shall provide intuitive graphical user interface.
2. **Manufacturers**

Acceptable Manufacturer:

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