

MESTA FUSION

Augmented driver's behavior's tracking for safer roads

A non intrusive and powerful combination of the latest technologies, MESTA FUSION integrates a multitarget tracking radar and a high resolution camera - the highest on the market – performing perfectly over multiple traffic lanes.

Road safety is a key factor in public security

With increased traffic and higher demand for security on the road, the need for safety solutions implies more and more performance.

Thanks to our solution, we save lives and reduce accidents.

Our offer: an effective answer to address major road safety issues

In addition to speed and red-light-crossing enforcement capabilities, MESTA FUSION paves the way to many other enforcement functions such as forbidden lanes and overtaking, tailgating, low speed, turn left or right enforcement and much more.

The multi-target Doppler radar offers an accurate and reliable measurement of both speed and position of several vehicles at the same time. MESTA FUSION follows up to 32 vehicles, in approaching and/or receding mode, and on several lanes simultaneously. It also manages different speed limits per traffic lane and per vehicle class.

MESTA FUSION technology enables the management of any complex urban configuration where combination of **all vehicle trajectory is analyzed and processed.**

MESTA FUSION is also part of a global solution including MCC back office services with monitoring tools, violation processing and many other added value services.

Benefits



Flexibility

MESTA FUSION fits with any road safety use case by combining red light monitoring, instant speed control and forbidden trajectories. It ultimately brings significant improvements on road safety.



Performance

MESTA FUSION has the highest violation detection rate of the market in the most demanding configurations all around the world.



Beyond road enforcement

The MESTA FUSION monitoring capabilities offer new detection features such as abnormal or unexpected vehicle trajectory, driver behavior, and even more with driver or passenger identification.

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Through advanced trajectory analysis, the Doppler radar follows all vehicles moving in the controlled area up to 8 lanes. This native capability ensures an accurate designation of all offending vehicles present in the picture for any kind of violation: red light crossing, speed exceeding limit, forbidden trajectory...



DATE:	CSA:	DEV SITE CODE:	PICTURE: 2 / 2
LSL UPPER LV 70 km/h	SPEED: 113 km/h	LANE: 4	RED TIME: 0.60
CITY:	ROAD ID : 158	DIRECTION:	



Cutting-edge technology

- › Multi-target Doppler radar: "3D" large beam
- › Tracking capability: up to 32 vehicles
- › High picture resolution: 24 Mpixels or higher depending on lanes
- › Multi-lane monitoring: up to 8 lanes
- › Speed: up to 320 km/h
- › Accurate speed measurement: +/-3% (OIML, METAS, LNE and many others)
- › High detection rate: accurate vehicle cluster separation
- › Non-intrusive red light crossing detection
- › Vehicle classification
- › Adapted to extreme weather conditions (-40°C to +55°C, 95% HR, IP 66)
- › Configuration: red light enforcement and speed enforcement in receding and approaching mode
- › Distance of detection: up to 150m
- › Anti-vandalism design
- › Sensors: from 4 to 6 meter to minimize masking



And tomorrow?

- › Improved safety on the road with additional dangerous behavior detection such as belt fastened or phone in hands while driving
- › More flexible and modular solutions to fit with any complex urban or highway configuration
- › Live ANPR feature for extended capabilities from road safety to public security and traffic management