



MESTAcompact

Flexible integration into urban environment

MESTAcompact offers the most advanced features for monitoring speed and red-light running violations in urban environments. MESTAcompact's low foot-print allows an easy and fast integration into urban environments.

Zero tolerance on road collisions in urban environment

Approximately 1.35 million people lose their lives each year as a result of road traffic collisions. Authorities around the globe are applying stricter measures for the safety of drivers, passengers, pedestrians, two-wheelers and other road users, thus adopting a zero tolerance policy.

Easy to operate

MESTAcompact is easily installed on a street light or on a specific mast. Its rotatable modules that include automatic alignment make roll-out even easier as well as maintenance with its exchangeable inner modules.

Comprehensive situational awareness on the roads

Accurate and easy to use, MESTAcompact is the answer to challenges faced by authorities in urban environments. Based on Doppler, Time-of-flight LiDAR (Light Detection And Ranging) technologies and IDEMIA's in-house SAFE platform (video analytics platform for both acquisition and analytics processing), MESTAcompact offers advanced violations detection and more.

Accurate monitoring of speed and red-light running and beyond

MESTAcompact simultaneously offers:

- › Accurate speed measurement
- › Precise red-light management
- › Detection of complex and forbidden trajectories
- › Automated license plate recognition
- › Sharp in-cabin vision enabling operators to detect seat belts and phone

Benefits



Smooth integration to existing infrastructure

MESTAcompact offers a compact housing designed for street light mounting



Optimized performance

Based on technologies optimizing performance on speed measurement and trajectory detection at red lights



Performing optics

MESTAcompact is based on a platform tailored for road surveillance leveraging on a powerful dynamic illumination and filtering system enabling in-car vision

Why IDEMIA?

IDEMIA is the world-leader in public security applications with in-house capability to design, produce and support edge devices and associated advanced embedded image processing analytics. We combine the best of our expertise from across all our markets to enable any individual to live in a secure, safe and convenient environment, including safer roads and cities.

With over 40 years' experience in the road safety market, IDEMIA has delivered more than 10,000 traffic law enforcement systems. IDEMIA's systems successfully operate in France, Belgium, Canada, Colombia and in several places in the Arabic Gulf region.

Adaptable to any landscape

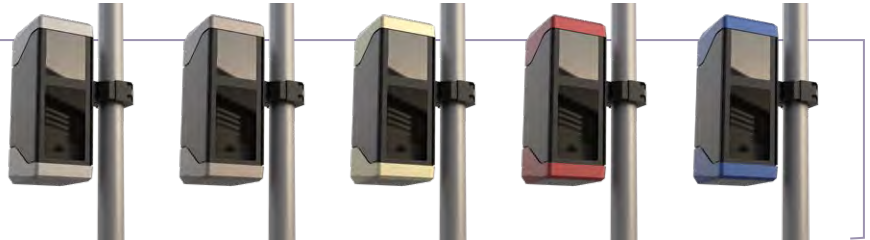
MESTAc^om^act is available in various colors to perfectly fit your landscape or your educational approach.



MESTAc^om^act can be activated in less than 30 minutes and it ensures good driving behavior at all times, even when not operating.

Colors

Aluminium White	
Anodic bronze	
Anodic Champagne	
Electric Dream	
Digital Red	



Open platform

MESTAc^om^act, is based on IDEMIA's in-house SAFE platform that uses advanced analytics combining unique imaging capability with powerful AI algorithms. It can be easily upgraded to add additional detection capabilities (e.g. more types of violation, more vehicle classifications) to leverage traffic information and address more use cases.



Key features

Functionalities

- › Covers up to four **lanes**
- › Bi-directional speed enforcement from 20 km/h to 250 km/h
- › **Red-light** enforcement
- › Speed enforcement for up to **five different vehicle classes**: two-wheel, car, van, bus and truck
- › Enforcement based on advanced trajectories such as:
 - vehicle running in the wrong direction
 - forbidden trajectories (left/right/straight)
- › **ANPR** (Automated Number Plate Recognition) on all vehicles
- › **Sharp in-cabin vision** enabling operators to detect seatbelts and phones
- › **Traffic statistics**
 - Live **video-streaming** and **recording**

Technology

- › Large beam FMCW* multi-tracker Doppler radar sensor
- › Time-of-flight LIDAR sensor
- › Camera enabling ANPR, video analytics and artificial intelligence
- › Multi-tracking data fusion
- › Integrated powerful near-infrared illuminator: non-invasive technology for both vehicles detection and red-light status detection

Communication

- › Connection to central server through ADSL / 3G-4G router / Fiber

Dimensions and weight

- › Compact all-in-one housing: height 85 cm x width 32 cm x depth 48 cm
- › Weight: < 40 kg including 2 rotatable modules:
 - measure module ~ 5 kg
 - service module ~ 10 kg

*FMCW: frequency modulated continuous wave