

Smart Lights for Smart Cities

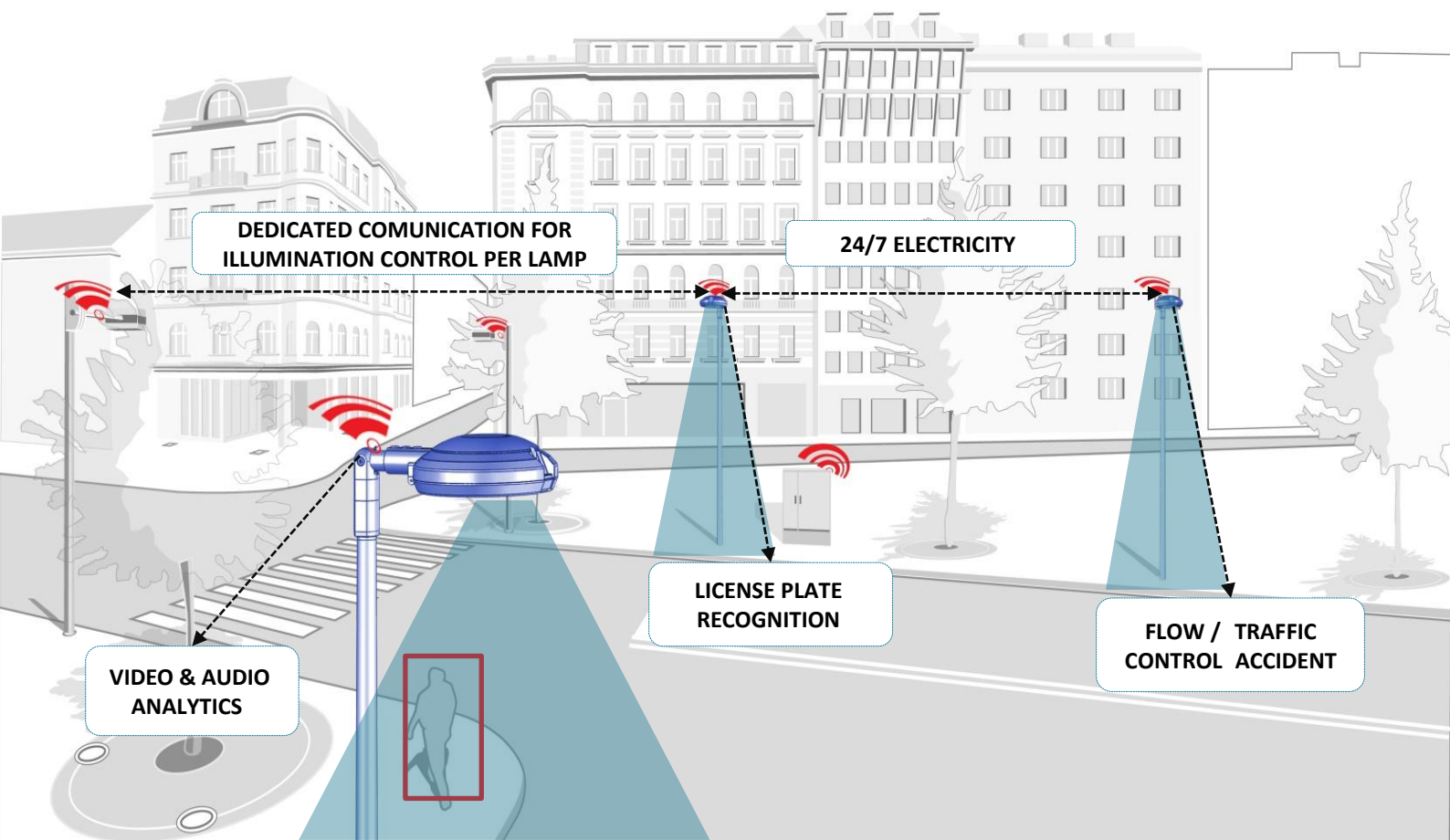
SECURITY | DATA | INTEL | COMMUNICATIONS

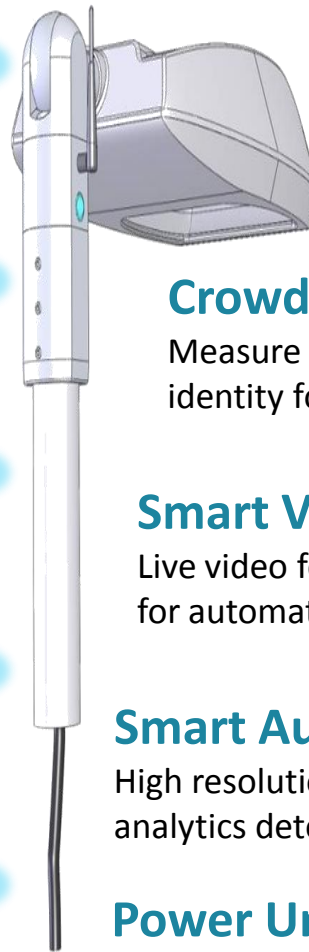


The NSR Smart Light solution is an integrated street illumination/ surveillance/sensor solution that dramatically cuts down on infrastructure and operational, costs, and provides the perfect solution for Safe/Smart Cities.

The installation provides energy saving , communication, and wifi capabilities, as well as supporting additional urban sensors (cameras, crowd-meters, etc.) creating seamless Smart City networks.

Fully compliant with European regulations regarding energy consumption, cost-effective, and environmentally friendly, this solution cuts down on greenlight gasses and reduces power consumption by 50% - as well as integrating seamlessly with the urban environment, providing security without disrupting the urban landscape





Smart Lights

Energy saving LED lights
(50%-70%)

Crowd Meters

Measure population density and
identity for intelligence.

Smart Video

Live video feed with video analytics
for automated detection

Smart Audio

High resolution audio with audio
analytics detect events in crowd.

Power Units

Solar panels or battery units that
enable ongoing operations even when
the power grid is down.

Photo Sensors

Optional on/off switch for all systems and
sensors activated by presence of sunlight.

Additional Sensors

Up to 72 additional sensors – from pollution
meters to humidity sensors.

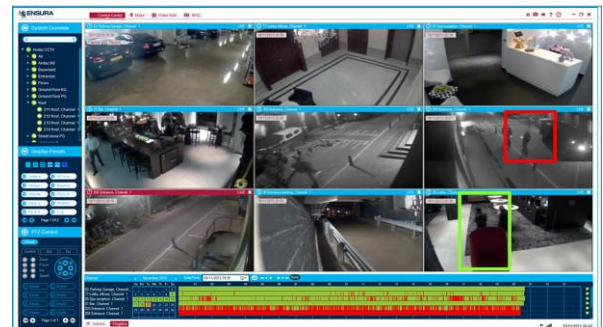
ENSURA Command & Control

Provides data fusion and management of all
Smart Lights (and Smart City)
sensors and subsystems.



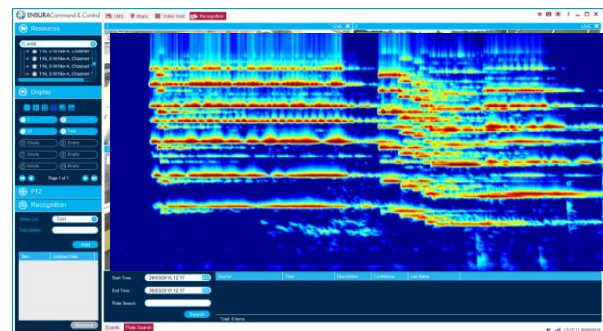
Video Analytics

- Provide parking space data
- Object tracking (theft, terrorism)
- Population density analysis
- Traffic flow monitoring
- ...more



Audio Analytics

- Identify gunshots & trigger 911
- Identify graffiti & direct cameras
- Vehicle classification for traffic control
- Monitor aggression levels
- ...more



Video & Audio Analytics integrated with data from other Smart Light sensors in ENSURA Command & Control::



Security



Event

Window smashed at night.



Detection

Audio analytics in Smart Lights identify event.



Response

ENSURA C&C analyzes data and implements procedures:.



Direct nearby cameras to towards event.



Turn on all nearby illumination,



Alert police



Alert city information



Send alert via text to area residents.

Infrastructure



Event

Streetlight burns out.



Detection

Smart Light sensors Identify event.



Response

ENSURA C&C analyzes data and implements procedures:.



Turns on nearby illuminations



Alert city information



Send alert via text to area residents.



Alerts city maintenance

Environment



Event

Dangerous pollution levels.



Detection

Pollution sensors in Smart Lights identify event.



Response

ENSURA C&C analyzes data and implements procedures:.



Send alert via text to area residents.



Update medical authorities



Alert city information



Update city smart signs

Remote Control Streetlight - complete solution for efficiency , operations, security , safety and smart projects, utilizing the infrastructure to deploy any sensor in the city



Smart City in a Box- support of up to 72 different sensors via Ensura C&C for data fusion and integration of Smart Lights into a Smart City.

Manage District Streetlight - create streetlight groups and manage city districts, streets and specific poles.



Reduced Energy Consumption - turn on streetlight only when necessary and uses energy saving working modes for districts with low power requirements.



RCMS Generate Reports – see current and historic smart light status and generate reports.



Video & Audio Analytics- enhance Smart City abilities and systems with advanced analytics.



Instant Infrastructure - All poles are electrified enabling mass service actions such as digital city signs.

Urban Network– Dedicated network enables immediate deployment of sensors, video network enables mass transmission to the city

Supports any light type

Luminaire adapter – “PLUG & LIGHT”

Micro camera + microphone inside

Easy installation & commissioning

LED life 60,000 hours

Individual pole dimming control

About NSR

NSR designs, implement , and supports advanced solutions that empower end users to operate and manage Smart Cities, Transportation Hubs, Emergency Response Centers, and more.

Out of The Box - our thinking, designs and solutions are operationally oriented and adaptable.

Leverage Assets – we enable and upgrade existing sensors & legacy systems.

Design for Growth - NSR designs solutions that grow with customer needs.

Tried & Tested - proven technology, integration, and delivery capabilities.

Offices

NSR BV: Netherlands, HQ + Administration

ENSURA BV: Netherlands, Europe R&D

NSR Compass: China, East Asia Programs

ENSURA Israel: Israel, Product R&D

ENSURA Tech Solutions: Israel, Integration

NSR Mexico: Mexico, South America Programs

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