VIGILATE

SITP | SMARTEKPOLE

by calzavara

Smart Roads Products

A single device for video surveillance, traffic analysis, road safety and communications between intelligent vehicles and infrastructure

SMART POLE MODULES

WEATHER · ROAD MONITORING · LIVE · COUNTING · PANIC · A.I.D. · CCTV · CROWD

STP CCTV camera

5 MEGAPIXEL 16:9
Configurable streaming
Local I/O
Can be integrated onBoard with EWC software
(Environment Weather Condition)

- NEURAL LIBRARY
- ROAD GATE AID

ANPR · TYPES · TRAFFIC CONTROL · BRANDS · MODEL · COLOR · SPEED · A.I.D. · LIVE

STP A5B ANPR camera

5 MEGAPIXEL 2 Lanes
5MP@75fps ANPR 250 Km/h (2 Lanes)
ALARMS & DATA
ONVIF S FTP, XML-RPC (su HTTP o HTTPS)

- OCR LIBRARY
- NEURAL LIBRARY
- ROAD GATE AID

ANPR · TYPES · TRAFFIC CONTROL · BRANDS · MODEL · COLOR · SPEED · A.I.D. · LIVE

STP MFSC Multi functions Smart Road camera

2 lanes coverage, single or double direction
5 Mpx OCR IR camera
Contextual Day&Night varifocal color camera 2 Mpx @60fps
Free-running license plate reading up to 250 km/h
Built-in stroboscopic IR LED lighting

- OCR LIBRARY
- NEURAL LIBRARY
- ROAD GATE AID

COUNTING · RADAR · TYPES · SPEED · TRAFFIC CONTROL

STP RADAR

Advanced 4D Doppler Radar 66 - 77 GHz + Video Fully
integrated 2 MPX color camera
Both directions driving
Speed measurement from 20 to 250 km/h
Operating distance from 15 to 50 m
Classification of vehicles into 4 classes
64 Maximum number of detectable objects
POE power supply
Integrated radar and video analysis
ONVIF profile S

Neural Library

- Daytime Recognition Of Types Of Vehicles
  (Cars, Trucks, Trucks with trailers,
  Motorcycles, Motorcycles, Mopeds, Buses,
  Mini vans, Big vans, Box bodies, Caravans,
  unknown)
- Night Recognition Of Types Of Vehicles
  (trucks, buses, cars, motorbikes, unknown)
- Color Day Recognition
  (black, white, grey, red, blue, yellow, green,
  orange, pink, purple, cyan, unknown)
- Daytime Brand Recognition
  Around 100 brands supported
- Daytime Model Recognition
  Approximately 400 models supported (rear
  classification)

Road gate AID

- Instant speed estimation
- Transit direction and wrong way
  detection
- Vehicle stopped in the gap alarm
  function
- Queue alarm function in the gate
  (traffic stopped) traffic status
  detection (regular, slow, queue,
  unknown)
- Slow traffic alarm function
- Lane statistics: occupancy,
  flow-rate, heading, speed

OCR Library

- On board OCR library with 41
  European countries, 13 Asians,
  6 Africans, 5 South Americans
- Arabic and Persian charset
  supported
- Special license plates (diplomatic
  corps, police forces, trams)
  supported
- Local / remote calendar for OCR
- Dangerous goods (adr kemler
  codes) supported
- Country recognition

STP CV2X

ANTENNA

AUTONOMOUS VEHICLE

ACTIVE SAFETY

C-V2X

WiFi MOTION

SMART

COMMUNICATION

CONNECTIVITY

CLOUD COMPUTING

All-in-one integrated professional radio system

designed to ensure reliable V2X communication between the ground infrastructure and the OBUs (On Board Units) of the latest generation vehicles.

It manages multiple C-V2X and DSRC connectivity standards simultaneously

ITS G5 (DSRC IEEE 802.11p), C-V2X (PC5), LTE-A Cat. 16,
Supports Wi-Fi 802.11b, g, n and Wi-Fi 802.11a/ac standards. STP RSU C-V2x

The internal software environment provides 4 levels of security

nested from the kernel to the application that ensure the protection of STP RSU C-V2x from cyber attacks

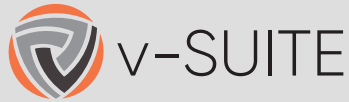## Set of 6 antennas combined in an all-in-one mechanical solution

ensures optimized coverage of a road segment while minimizing radio emissions outside the road area.

Expandable

It can host local management logic thanks to its multi-core ARM platform and compute, memory and storage resources.
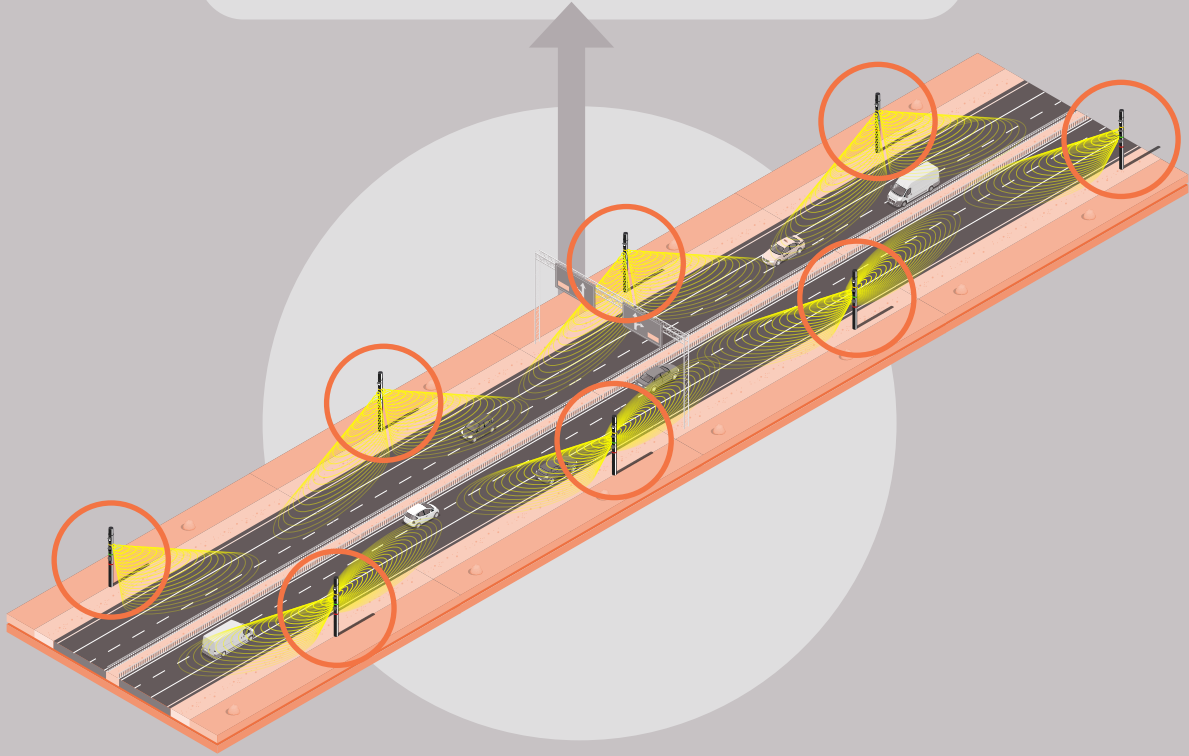
Applications

- Road Side Unit (RSU) device complete with all C-V2X and DSRC communication standards
- Message General warnings
- Intersection Safety message
- Shockwave damping message
- Display of the danger position
- Roadworks warning in vehicle signs
- Road works notice
- Prioritization Dynamic signage content
- Toll station
- Green light Optimal speed warning
- Green wave speed information
- Weather alert
- Park and ride

v-SUITE

A Complete Suite of Applications for Security and Traffic Management

TRAFFIC PARKING SECURITY ACCESS IOT B2B SERVICES

Vigilate is a tech company specialized in the production of devices and software platforms for security and traffic control.

Vigilate S.r.l.

**Headquarter:
Via Napoleonica, 6,
25086 Rezzato BS Italy**

**VAT Number: IT01598660056
Phone: +39.0308081000
Pec: vigilatesrl@pec.it
SDI Code: W7YVJK9**

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www.vigilatevision.com