

SISTEMI PER LA GESTIONE DEL TRAFFICO - TRAFFIC CONTROL SYSTEM

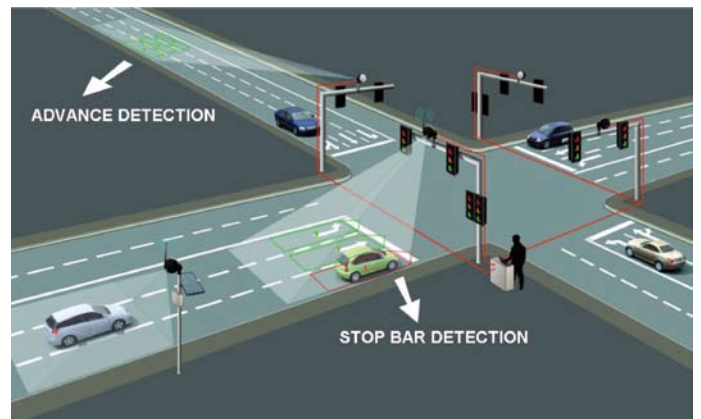


VIRTUAL LOOP ON VIDEO TECHNOLOGY

DESCRIPTION

- Sensor for vehicles' presence for intersections with traffic lights. Traficam integrates the functionality of a video camera and of a detector.
- Financially competitive with different technology from loops on ground, radar and infrared sensor.
- Superior technology to traditional systems of vehicle detectors
- Easy to install, to program and to modify
- It allows the detection of vehicles on stand-by and moving on the junction, thanks to the simplicity of the video technology and the possibility to see the image on PC and therefore to position correctly the area of detection

TRAFICAM® FUNZIONALITA' PRINCIPALI



- ✓ 8 virtual loops in one camera
- ✓ Functionality of bi-directional and fleeting loop
- ✓ 4 outputs with standard interface
- ✓ Programmable from PC
- ✓ Vehicle loops video positioning
- ✓ "Streaming" video for functionality control of the loops
- ✓ Failsafe protection, it maintains the contact closed in case of failure or poor visibility

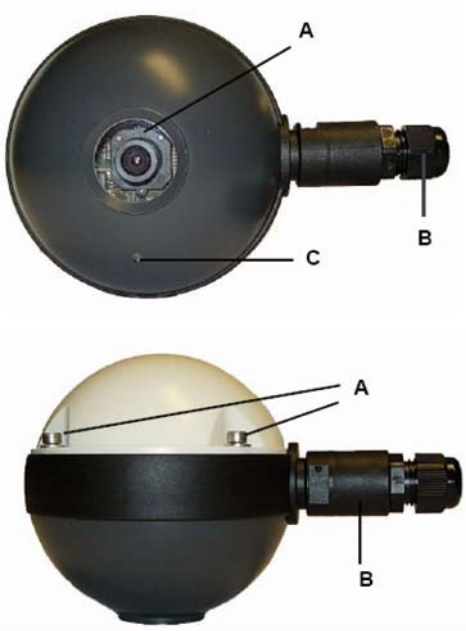




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TRAFICAM® TECHNICAL CHARACTERISTICS

A= optical sensor
B= watertight connector
C= red led which indicates the presence of a vehicle



A= fixing screws
B= articulated joint for orientation

- ✓ Video camera and detector in one solution
- ✓ Camera 1/3" CMOS
- ✓ 2 standard lens, narrow and broad angle
- ✓ IP67 external casing
- ✓ Fixing brackets included (for vertical and horizontal)

TRAFICAM® PRINCIPAL BENEFITS

UTILIZATION

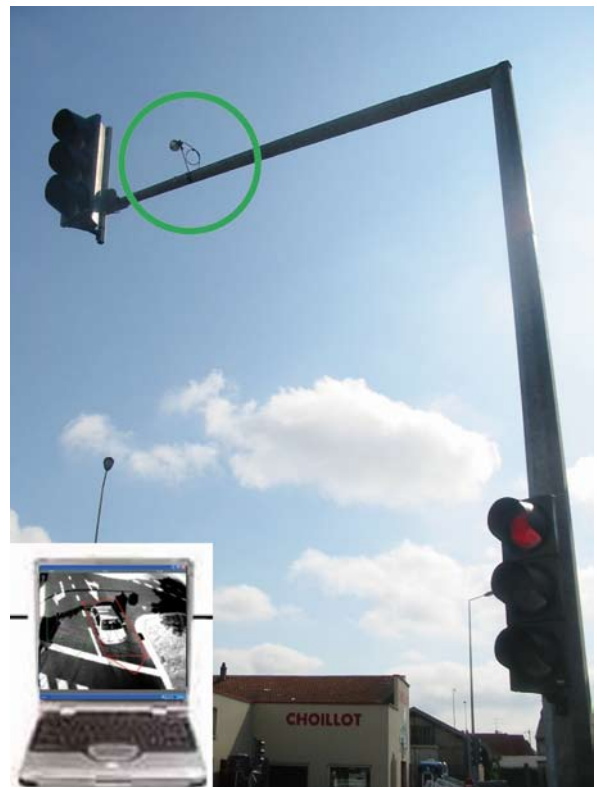
- Simple to install and easy for maintenance
- A camera can detect up to 4 lanes
- Very simple to modify the position of the loops for geometric changes on the junctions

AFFIDABILITA'

- Alta precisione di rilevamento veicolare e pedonale
- MTBF superiore a 11 anni

ECONOMICA

- Costo di manutenzione inferiore del 75% rispetto alle spire tradizionali
- Tempi di risposta più veloci
- Assicura il funzionamento anche durante le manutenzioni degli asfalti e delle strade





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COMPARISON BETWEEN TECNOLOGIES OF TRADITIONAL APPLICATIONS AND TRAFICAM ON JUNCTIONS WITH TRAFFIC LIGHTS

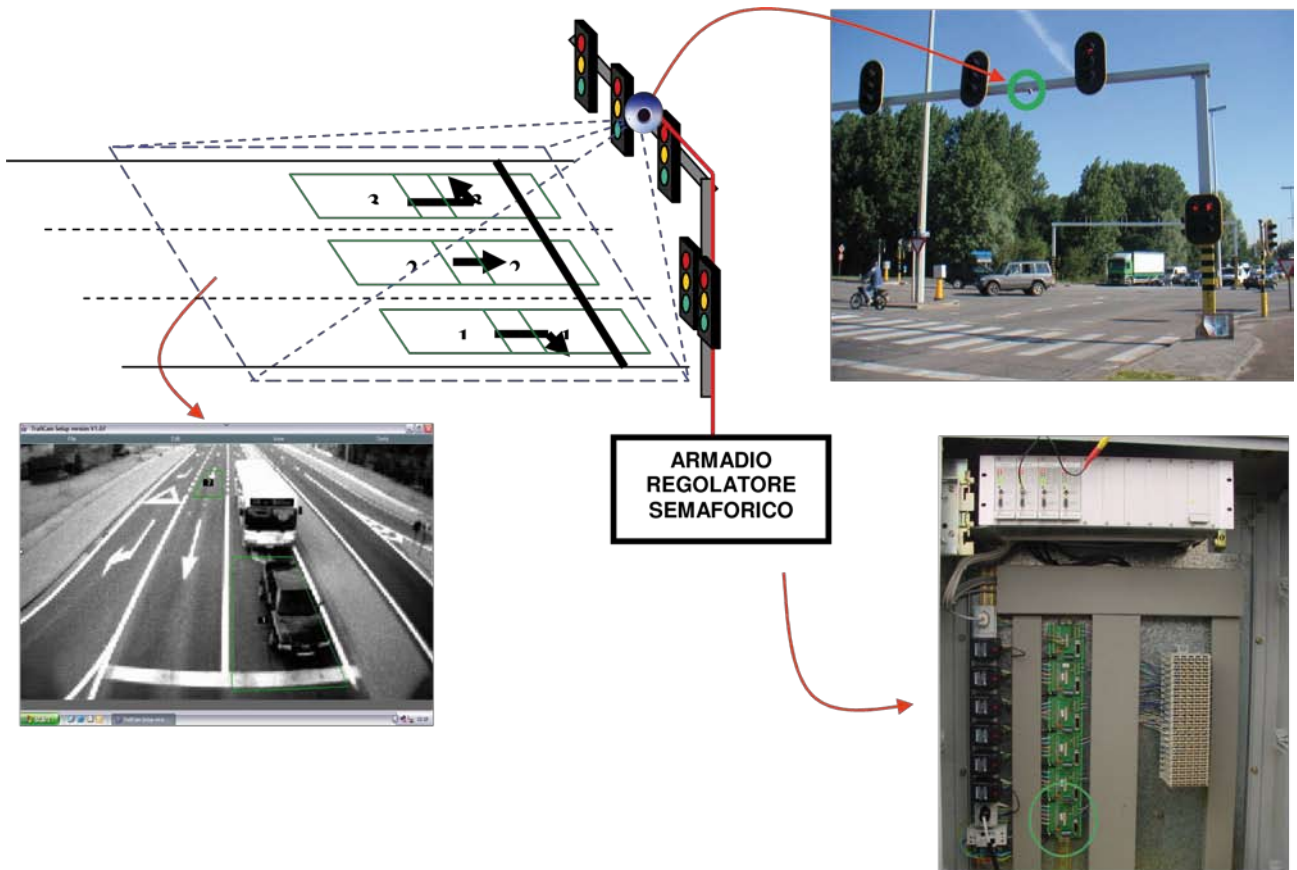
	TRAFICAM	TRADITIONAL LOOP	MICROWAVE RADAR	INFRARED RADAR
INSTALLATION	+	--	+	+
CONFIGURATION	+	+	-	-
FUNCTIONALITY TEST OF THE SENSOR	simple	Simple but limited	hypothetic	hypothetic
FLEXIBILITY	++	--	+	+
NUMBER OF LOOPS	Up to 8	1	1	1
NUMBER OF OUTPUTS	Up to 4	1	Superior to 1 (highway) 1 (on intersections)	1
DETECTION	Moving and stand-by vehicle	Moving and stand-by vehicle	Only moving vehicle	Moving and standby vehicle
DIRECTIONS	4 directions	n.a. (only with double loops)	2 directions	1 direction
LOOP POSITION	++	+	-	--
LOOP PERFORMANCE	++	++	-	-
AESTETICS	++	n.a.	+	+
MAINTENANCE COST	++	-	+	+
DURATION	>10 years	2-3 years	7 years	7 years

n.a.= not applicable

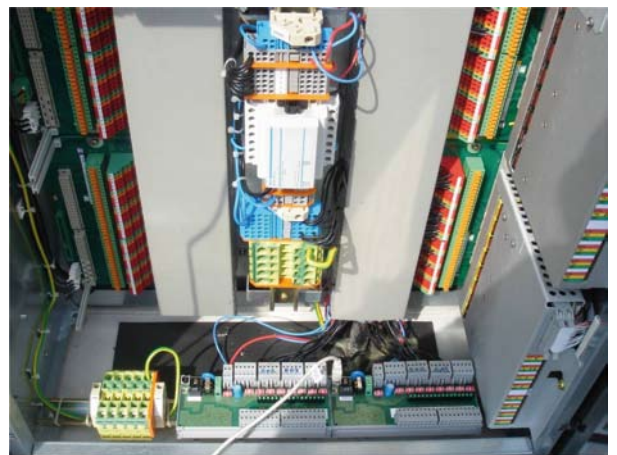


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SYSTEM ARCHITECTURE



Installation on traffic light pole

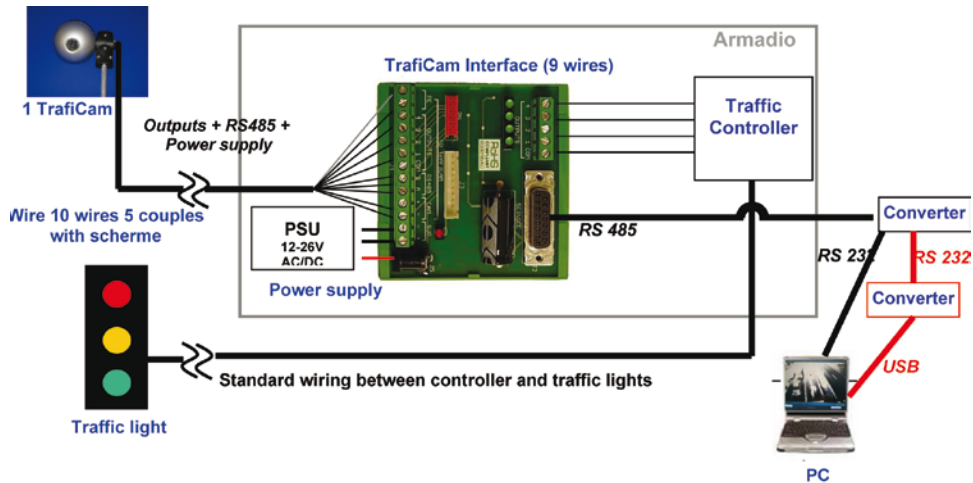


Wiring inside the traffic controller

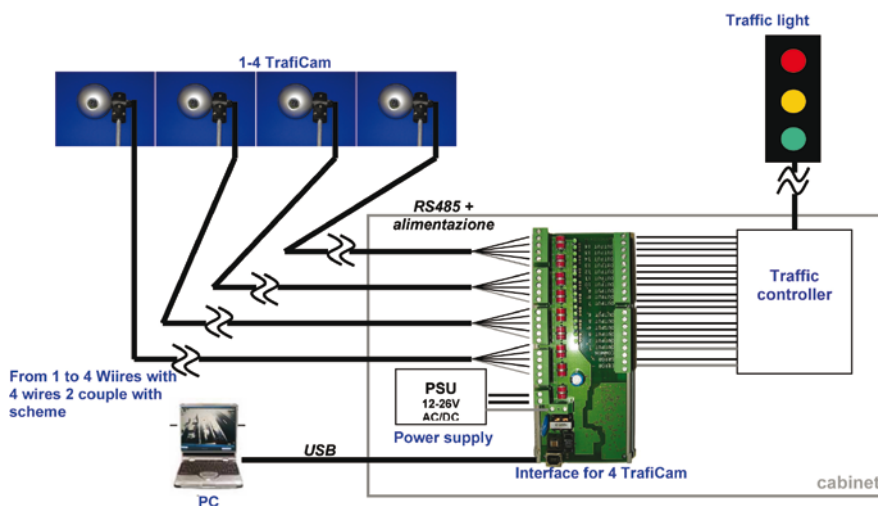


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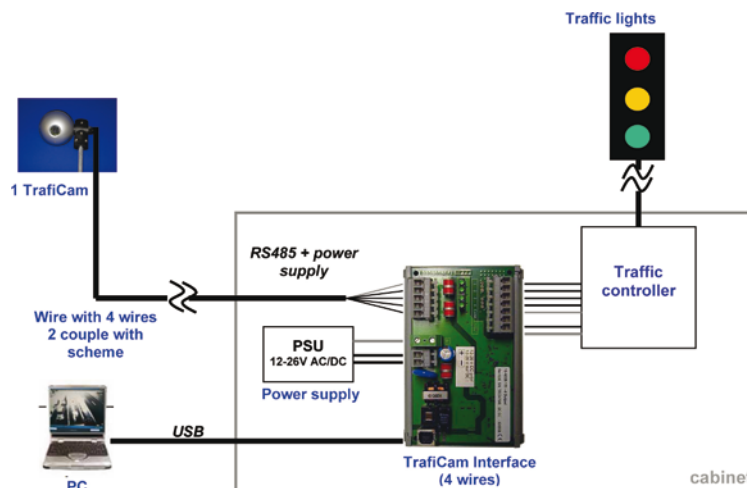
TRAFICAM WITH INTERFACE 9 WIRES STANDARD 6025 4 OUTPUTS



TRAFICAM WITH INTERFACE 4 WIRES 6028 4 OUTPUTS



TRAFICAM WITH INTERFACE 4 WIRES 6027 16 OUTPUTS



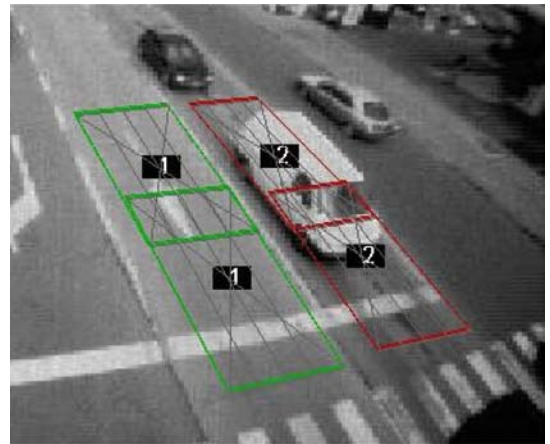


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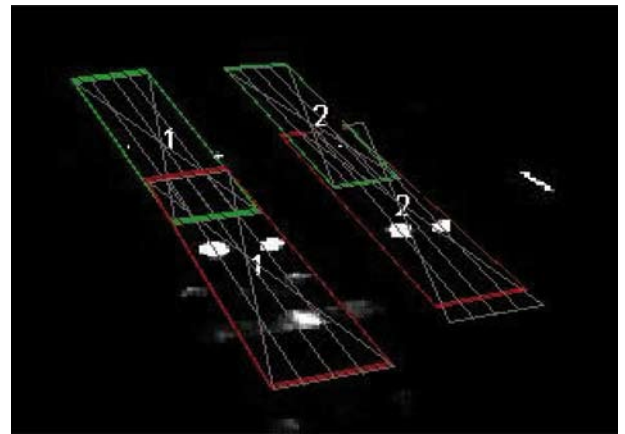
CONFIGURATION SEQUENCE OF LOOPS



Streaming Video



Daylight View



Night time view

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