



Tunnel Management

Automatic Incident Detection

MediaTunnel

- Automatic incident detection
- Fire detection
- Traffic data collection
- Travel time
- Detection of traffic congestion
- Numbering and positioning of vehicles
- Tunnel management tools
- Digital video recording

Video detection uses **image processing** algorithms to extract pertinent information from standard video-surveillance camera images.

Especially developed to improve safety and assist in tunnel management, **MediaTunnel** enables a better understanding of, and a better response to:

- **Fires**, thanks to automatic detection and fast transmission of accurate information on the actual number and position of vehicles in the tunnel
- **Incidents**, thanks to automatic alarms upon incident or traffic event detection as well as instantly available digital video sequences before and after the incident
- **Traffic** conditions, thanks to reliable Traffic Data Collection.

Automatic Incident Detection	Traffic Data Collection
> Stopped vehicle	> Flow
> Traffic congestion	> Speed
> Pedestrian	> Occupancy
> Wrong way vehicle	> Vehicle headway
> Slow vehicle	> Classification
> Objects on the road	> Travel time
	> Numbering and positioning of vehicles in tunnel





Automatic fire detection

In tunnels, the fast development of fire, as well as its consequences, require a **prompt detection**.

Immediately upon fire detection, **MediaTunnel** automatically sends a visual and audible alarm enabling the operator to instantaneously evaluate the gravity of the situation for **adequate decision making**.

- Detection of **flames**
- Detection of **smoke**
- Detection of **vehicle**
- Detection of **pedestrian**



Assistance to decision making process

A friendly graphical user interface displays in real time information on:

- The actual **number** of vehicles in the tunnel
- The **position** of these vehicles
- The **location** of the incident



MediaTunnel is designed to integrate in a safe, easy and efficient way into your video surveillance and traffic management systems. Our systems use standard video cameras, colour or B&W, fixed or Pan-Tilt-Zoom. **MediaTunnel** processes analog video as well as IP encoded video streams.

Dimensions (mm)	482 x 177 x 450
Weight	15 kg
Input voltage	110 - 240 VAC
Maximum power consumption	250 W / 0 - 25 °C
Processor	INTEL X86 Architecture
Hard disk	120 Gb
Memory	512 Mb
Video input	16 video inputs (PAL/NTSC or IP)



MediaTunnel equipment is exclusively assembled from **standard industrial components** (PC, boards, frame grabbers, etc...) thus ensuring **duration, reliability and evolution** of products at minimal cost.

Transmission modes	Twisted pairs, Radio, Fibre-optics
Connections	Open collector, Serial (RS 232, RS 485, ...)
	Network (ADSL, Ethernet, ATM, ...)
Communication protocols	TCP/IP (OPC, LCR, ...), Serial (Modbus, ...)

- **High detection rate**
- **Detection time < 10s**
- **Low false alarm rate**
- **Automatic recording of video sequences**

before and after incident upon:

- > **MediaTunnel alarm**
- > **Supervision alarm**
- > **Operator's request**
- **Multi-camera video incident sequences**
- **Digital video recording**