Atalaya3D Speed enforcement camera

Stereoscopic vision camera for an accurate measurement of speed

Atalaya3D is a high-performance vision-based equipment that accurately performs spot speed measurement and license plate recognition of every vehicle in one or up to three traffic lanes.

Spot Speed Measurement: Atalaya3D combines two high-speed (250 fps) image sensors to capture the license plate of every vehicle in the road. An embedded parallel-computing image processor performs a tridimensional reconstruction of the movement and it accurately measures the vehicles' instant speed.

License Plate Recognition (ANPR): Atalaya3D uses an innovative and patent pending multi-exposition technique to accurately recognise the number plate (refelective and non-reflective) of all vehicles, day and night and even under challenging environmental conditions. Vehicles with no license plates can also be accurately detected.

Installation: As an stand-alone equipment, any external processor or sensor (loop, radar or laser) is required. Roadside pole or gantry installation, easy and very convenient as traffic will not be interrupted. Auto-calibration of the speed measurement technique.

Versatility and Programmability: Additionally, Atalaya3D can be used for red light enforcement, travel time, average speed, inter-vehicle distance or black list police control, among other applications.

- ✓ **Precise Spot Speed Enforcement**
- ✓ **Accurate & Real-time ANPR**
- ✓ **Up to 3 Traffic Lanes**
- ✓ **Acquisition And Processing In One Equipment**
- ✓ **Non-intrusive System**
- ✓ **Roadside Or Over-lane Installation**
- ✓ **Auto calibration Set-up**
- ✓ **Night & Day Operation**
- ✓ **Over 300 KmH**
- ✓ **Speed, Red-light, Travel Time, Black-lists ...**

Technical Details

Cameras	Megapixel, 250fps
Illumination	Integrated high-power Infrared illuminator
Image processor	Built-in parallel computing image processor (FPGA)
Embedded CPU	1.6 GHz ATOM with Windows XPe 40GBytes SSD hard disk Violation data record, encryption and third-party interface
Speed enforcement	Up to 3 lanes Parallel and simultaneous vehicles
ANPR	Over 95% accuracy GPS-based multi-exposition technique (patent pending)
Communications	Gigabit Ethernet, Wireless
System integration	TCP/IP socket, FTP client
Dimensions	2 camera IP66 housings (40x13x10cm) Total weight: 15 Kg
Operational range	Up to 20 meters
Installation	6 meters height roadside pole or above lane. No additional processing units or sensors are required.