

ARH-CAM S1

PORTABLE TRAFFIC ENFORCEMENT SYSTEM
WITH ONBOARD ANPR/LPR AND COMMUNICATION

ANPR RESULTS:

DV-LV-05

DV-LV-05 EU-NEDERLAND

- NUMBER PLATE: DV-LV-05
- NATIONALITY: EU-NEDERLAND
- SPEED: 34 MPH / 55 KMH
- RECOGNITION TIME: 2015-01-12T13:19:00:00
- BLACKLIST: -- NO --



FLEXIBLE DEPLOYMENT, UNMATCHED PERFORMANCE

ARH CAM-S1 is the ideal traffic enforcement and monitoring system where placing permanent installations is otherwise not feasible. The device's unique ability to autonomously execute license plate recognition, vehicle speed detection, data processing and communication makes S1 unparalleled in its class. The system's one dozen preinstalled analytical and enforcement modules, portable power source and 600 m / 1970 ft daytime, 150 m / 490 ft nighttime performance permits S1 to take the place of several complex devices for traffic management and ITS.



TOLL
COLLECTION



BUS LANE
AND RED LIGHT
ENFORCEMENT



TRAFFIC
MONITORING



LAW
ENFORCEMENT



TRAFFIC
SECURITY



VIDEO
ANALYTICS

MAIN BENEFITS

- Complete portability, autonomous operation and communication
- Quick and easy setup through the device's touchscreen
- 600 m / 1970 ft daytime, 150 m / 490 ft nighttime detection
- Onboard ANPR/LPR and data processing
- Preinstalled modules for enforcement and analytics tasks
- Certified speed detection
- Optimized for mobile traffic enforcement

TOWARD THE FUTURE IN SAFETY – SINCE 1991

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SPECIFICATIONS

ARH CAM-S1

CAM-S1 combines ANPR/LPR engine, 30x optical zoom camera, IR illumination, communication, GPS, data processing and certified laser speed detection capabilities in a single portable unit. Its built-in motion detection, JPEG image/MJPEG stream output, internal image buffer and H.264 compression can provide up to ten times smaller video stream, which leads to less network traffic and smaller storage space.

IMAGING

Image capture	Dual sensor solution
Sensors	1280 × 720 @ 30 frames/sec CCD 2048 × 1536 @ 20 frames/sec CMOS
Lens	30x optical zoom Motorized iris focus zoom Integrated IR filter changer Auto brightness control
Output image format*	JPEG with configurable labeling function
Output video format*	H.264
ANPR range**	Daytime up to 150 m / 490 ft (with CCD sensor), and up to 250 m / 820 ft (with CMOS sensor) Nighttime up to 150 m / 490 ft (environment-dependent)
	*Another picture/video format possible **Depending on plate type (reflective/non reflective), character type, environmental conditions, target speed

LASER

Measurable distance interval	25 - 600 m / 80 - 1970 ft (up to 1200 m / 3940 ft @ reflective target)
Measurable speed interval	10 - 300 km/h / 6 - 186 mph (or above – country-dependent)
Accuracy	+/- 2 km/h / 1.2 mph (+/- 2 cm / 0.8 in)
Wavelength	905 nm
Eye safety class	Class 1 / Class 1m (EN60825-1)
Laser beam divergence	3 mrad
Acquisition time	0,2 s

ILLUMINATION

Type	Integrated LED multi wavelength illuminator
IR Wavelength	760 nm / 850 nm
Power of IR illuminator	70 W / 220 W (impulse mode 400 µs pulse width)
Maximum range	~60 m / ~120 m (~200 ft / ~395 ft) (dependent on reflective target)

PROCESSING

CPU	Dual processing unit solution 1,6 GHz Intel Atom dual core + 766 MHz ARM dual core
Operating memory	2 GB + 1 GB (DDR3)
Storage	32 GB system + 128 GB SSD user space

I/O AND COMMUNICATION

3G / WiFi	Standard
GPS***	Optional
Ethernet (1Gb)	1
mini USB	2
RS232	1
1 x service port (useable for certification)	Optional
SMA (reserved for optional external 3G antenna)	1
12 pin user connector for optional peripherals	1

***External GPS antenna connection available via USB

MECHANICAL DATA

Dimensions (L × W × H)	361 mm × 373 mm × 227 mm (14.2" × 14.7" × 8.9")
Operating temperature	-20 °C to 40 °C (-4 °F to 104 °F)
Storage temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Starting temperature minimum	0 °C (32 °F)
IP rating	IP 65
Weight (device)	10.2 kg (22.5 lb)
Housing Material	Plastic-metal hybrid construction
Housing Color	Black (optional in other color)
Shield Color	Blue (optional in other color)
Mounting (device)	Standard tripod mountig (2pcs 3/8 UNC screwholes – useable for other mounting solutions as well)

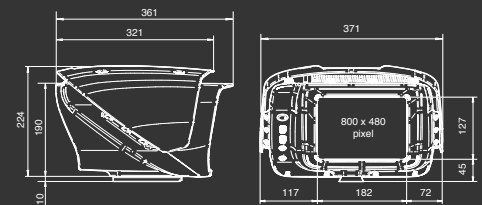


OPTIONAL ACCESSORIES

Optional accessories are military grade carrying case with optional wheels; two-stage, extremely rigid and stable tripod with leg locks function; high capacity external battery; battery charger with built-in quick charge function, in-car mounting kit; power cord with car connector; external battery power cord and stylus.



Valid speed detection at 600 m / 1970 ft, ANPR/LPR up to 150 m / 490 ft even during nighttime.



ELECTRICAL DATA

Power supply	12 - 17 V DC
Consumption	max. ~ 50 W
Internal battery capacity	36 Wh (optional 72 Wh)
External battery capacity	260 Wh (optional up to 520 Wh)

