



PROTECT YOUR COMMUNITY AND ENCOURAGE SAFER DRIVING

ALT1000 ALPR SURVEILLANCE TRAILER

On a Tuesday morning, buses are unloading in front of the local elementary school, and parents maneuver their minivans and SUVs through the driveway. But one of the cars doesn't belong here – in fact, its driver is prohibited from school zones. Minutes later, an officer arrives to arrest the surprised violator before he has a chance to cause an incident. Was it an alert school official or worried parent that notified the authorities? Actually, it was neither.

On an arterial road leading to a shady auto-parts business, police set up a road block to locate stolen vehicles. Day after day, they catch crooks driving stolen cars on the way

to disassembly. Why don't car thieves get smart and avoid the road block? They never even know it's there.

In a rural area 20 miles outside of town, a concert has brought out thousands of people and cars, spread over many acres. The local county sheriff's office is keeping an eye on the event, responding quickly to any hints of drug use or gang presence. When a wanted felon from another state – on the run for months – can't resist seeing his favorite band, deputies are waiting by his car when he comes back. As he rides to the county jail, he wonders, who could have turned him in? Turns out, no one did.

THE RIGHT RESOURCE IN THE RIGHT PLACE

We understand that law enforcement can't be everywhere, all the time. Officers need to be on patrol in the community, not watching the same corner all day. Yet there are times and places where an extra pair of eyes is needed – perhaps for hours, or even days. That's why we created the ALT1000 ALPR Surveillance Trailer.

Self-contained and discreet, the ALT1000 lets you bring Automatic License Plate Recognition (ALPR) to places where permanent equipment isn't practical, and stationing officers isn't justified. Hitch-and-go mobility means that you can easily redeploy ALPR equipment to where it's needed most – even if needs change from day to day, or even from morning to night. And because it looks and operates just like a radar trailer, the ALT1000 makes license plate surveillance more discreet and effective, while encouraging speeders to slow down with its speed and message signs.

Which means you can monitor a school zone for custody violators, a neighborhood for gang infiltration, a county fair for sexual predators, a chop shop for arriving stolen vehicles, or a corner for drug activity – all without obvious police presence.

Inside the ALT1000 you will find a complete, self-contained ALPR kit. Developed with PIPS, a Federal Signal Company and the leader in license plate recognition systems, our ALPR delivers best-in-class license plate recognition capabilities. Connected via your choice of wireless network, the system can let you know in seconds if a plate of interest has been detected – which means you can act more quickly.

The system's back end, known as BOSS (Back Office System Server), gives you powerful data-mining capabilities. Look up partial plates, get plate histories, map a plate's most frequently spotted locations – all with a few clicks of a mouse. From Cincinnati to Los Angeles, BOSS has proven itself to be an invaluable tool for gathering intelligence and locating offenders.

The ALT1000 can be as interactive as you need. It can simply scan and store the images and license plates of all passing vehicles, to be used later for intelligence work. It can send a message if a plate of interest passes by. Or you can operate the system remotely in real time – from the command center, on patrol, or a vehicle parked discreetly nearby.



We understand that you can't be everywhere. That's why the ALT1000 is here to help you watch over your community. The ALT1000 ALPR Surveillance Trailer uses the same components as Motorola's mobile Automatic License Plate Recognition systems, including the following:

- Slate™ cameras: The rugged, low-profile Slate digital camera supports both color and infrared image capture.
- PAGIS®: High-accuracy software that captures and recognizes license plates in seconds
- MW810 Mobile Workstation: fully rugged vehicle-mounted computer that provides reliable, cost-effective wireless connectivity and computing power for mission-critical applications
- BOSS®: Provides administrative and data analysis functions for both mobile and fixed deployments of ALPR

PRODUCT SPEC SHEET

ALT1000 ALPR SURVEILLANCE TRAILER

SLATE™ ALPR CAMERAS

Technologies:	TripleFlash® selects the best of 3 images PlateFinder automatically locates license plate
Optics:	Infra-red and full-color Medium and long range
Weight:	< 3.31 lbs (1.5 kg each)
Dimensions:	7.16 in x 3.54 in x 1.65 in (182 mm x 90 mm x 42 mm)
Connectors:	Metal, sealed (IP67)
Regulatory compliance:	US Safety: UL-60950-1 US Radiation Emission: FCC Part 15, Class B Complies with EPP, RoHS and WEEE

More information at motorola.com/ALPR

ALPR SOFTWARE

PAGIS® (Police ALPR Graphical Interface System) patrol-car based license plate recognition software:

- Reads a license plate in less than two seconds
- Proprietary, high-accuracy ALPR software with optical character recognition (OCR)
- OCR optimized for state or jurisdiction
- Vehicle color image capture for evidentiary purposes
- Support for wireless database synchronization
- Interface designed by public safety for public safety

BOSS® (Back Office System Server) software:

- Serves as central repository for ALPR data
- Supplies powerful data mining capabilities
- Provides administrative and data analysis functions

More information at motorola.com/ALPR

MW810 MOBILE WORKSTATION

Ruggedized:	MIL-STD-810G and IP54
Display:	12.1 in, 400 NIT, ruggedized touchscreen
LAN:	Two GbE + one 100Base-T (10/100 Mbps)
WLAN:	802.11 a/b/g/n (supports 3x3 MIMO)
WWAN:	CDMA EVDO Rev. A or HSPA/ HSDPA/UMTS/EDGE/GPRS

More information at motorola.com/MW810

GENERAL SPECIFICATIONS

Type	Bumper Pull
Display	18 in, seven (7) segment high intensity LED boards
Power	12 V power supply (solar panel option available)
Speed Range	5 - 150 mph (8 - 241 km/h)
Radar Type	SI-3, K-band
Finish	White powder coat paint
Construction	4 in open "C" channel
Weight	Approx. 1400 lbs (635 kg)
Environmental	-4°F to +140°F (-20°C to +60°C)
Safety	Meets all US D.O.T. safety standards for highway use

MECHANICAL

Length	120 in (305 cm) including the tongue
Minimum Height	53 in (135 cm) with display lowered
Maximum Height	100" (254 cm) with display frame raised and no speed limit sign, 120" (305 cm) with speed limit sign in place
Width	72 in (183 cm)
Motorized Lift	12 VDC Actuator used to lift the display

DISPLAY

Cabinet Dimensions	28 in H x 28 in W x 8.25 in D (72 cm H x 72 cm W x 21 cm D) Cabinet
Display Matrix	Two (2) conformed coated, 18" (46 cm), seven segment, amber, high intensity LED displays boards for mph. (2.5 digit for km/h)
Matrix Dimensions	18 in H x 22.5 in W - (2 digits) (46 cm H x 61 cm W) - (2.5 digits)
LEDs	High Intensity amber, 100° view angle
Luminosity	1300 mlm
Pixel Pitch	1 in (25 mm)
Display Control Panel	Contains the power on/off switch, Violator and High Speed Cutoff pushwheel switches, test push switch and EZ-STAT data logger port.

PRODUCT SPEC SHEET

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STORAGE BOXES

Dimensions	17.5 in H x 48 in W x 24 in D (45 cm H x 122 cm W x 61 cm D)
Capacity	11.6 cubic feet (328,400 cm ³)
Characteristics	Vented, removable with lockable paddlelatch
Lid Support	150 lb gas-lift strut
Seal	Rubber automotive weatherstrip

ELECTRICAL

Power Source	Multiple batteries providing 3-5 days of continuous use, depending on need and traffic patterns
Charging System	110 VAC automatic battery chargers with boost and float features
Solar Panels Option	Two 55-watt solar panels (3.16 A @ 17.4 VDC per panel)
Control Box	Contains the CPU, monitor, display sign, lift control switch and fuses
110 VAC Connection	Located on the curb side of the front storage box

RADAR

Type	SI-3
Accuracy	± 1 unit of measure (± 1 mph, ± 1 km/h)
Beam Width	12° nominal
Detection Distance	1500 ft (457.2 m) (Adjustable)
Direction	Approach only
FCC Identifier	HTRCR-1KD
Frequency	24.150 GHz nominal, (K-Band)
Polarization	Linear
Power Density	< = 1 mW/cm ²
Power Output	7 mW nominal
Speed Range	5 - 150 mph (8 - 241 km/h)

FRAME

Construction	Formed from 10-gauge hot rolled steel. Open "C" channel design.
Dimensions	53 in H x 72 in W x 120 in D (135 cm H x 183 cm W x 305 cm D) during transport
Finish	Graffiti & chemical resistant white powder coat paint
Suspension	1500 lb (680.4 kg) torsion springs
Fenders	14-gauge hot rolled steel
Leveling Jacks	Four (4) 10 in adjustable swivel jacks mounted to each corner
Lights	Meets all D.O.T. requirements for turn signals, brake, tail & license plate lights
Tongue	42 in (107 cm) long with 2 in ball coupler. Removable
Tongue Weight	140 lbs (63.5 kg)
Wheels - Rims	14 in x 6 in one-piece chrome
Wheels - Tires	14 in - 185/75R14 radial
Wheel Lock	6 ft (1.83 m) steel cable with padlock

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