

Aldis™ Solutions for Smart Cities of All Sizes

GridSmart™ Xpress

Description

Designed on the GridSmart platform, Xpress is an all new concept in video traffic management delivering a best-in-class solution for highway, parking and vehicle management applications.

Xpress combines a single or dual (available with 720 series) ultra wide angle lens camera with a ruggedized cabinet mounted processor, creating a non-intrusive video tracking solution. Xpress is a practical, cost-effective alternative, even when compared to other highway and vehicle detection devices.

Platform and Design

Xpress is designed on an advanced platform architecture combining features including highway and ramp monitoring, incident detection, parking management, remote surveillance and portable traffic surveying. Xpress is rapidly scalable and easily interfaces with other third party products and peripherals. The configuration management software is designed to be user friendly and allow access both locally and remotely through a secure connection. The advanced software platform enables users to choose from an array of features enabling the user to customize each system to their specific needs.



Software Features

- Digital flattening of image
- Digital pan-tilt-zoom
- Easy set-up and management
- Point and click zone drawing
- Zone design simulation



Advanced Video Tracking

Xpress is a video tracking solution for use in isolated or coordinated vehicle management systems. All GridSmart products are engineered for rapid installation through a single wire with an intuitive GUI configuration. Xpress can track:

- Vehicles
- Bicycles
- Pedestrians
- Trains
- Turn counts
- Golf Carts
- Speed
- Emergency vehicles
- Classification

System Applications

- Parking Management
- Freeway Monitoring
- Remote Surveillance
- Portable Traffic Surveying
- Ramp Management
- Incident Detection

GridSmart Explorer permits two modes of operation over the Internet or fiber optics. A simple view only mode provides access to watch the detection area while administrator mode allows remote setup, monitoring and system configuration.

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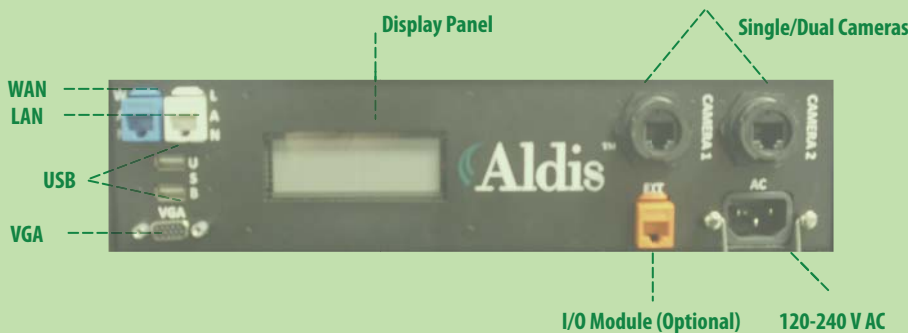
Installation and Configuration

Xpress was designed to reduce install and configuration time while providing engineers with an easy-to-use customized video traffic management solution. Aldis' ultra wide angle lens camera is mounted with a single encrypted IP connection. The system utilizes a standard 120 or 240 VAC power supply.

Features

- Always in Focus Color Camera** with electronic shutter speed control.
- Proprietary Occlusion Mitigation** provides improved performance as objects that enter the area of interest are tracked until exit.
- Vehicle Tracking** monitors vehicle presence, stopped vehicles and direction.
- Vehicle Classification** monitors turn and vehicle speed data, vehicle count data by direction and class.
- Traffic Safety Solutions** include emergency vehicle identification, passive pedestrian detection, automated pedestrian clearance time.

Xpress Control Unit Diagram



Benefits

- Cost Effective** - Solution competes in cost with inductive loops or surveillance.
- Fast Install** - Single wire run with remote set-up and configuration gets the crew out of the intersection fast.
- Full Field of View** - Xpress provides more visual information over standard machine vision solutions due to the large field-of-view.
- Easy Configuration** - GUI-based software with adaptable user-defined detection zones make set-up fast.
- Easy to Use** - User interface reduces training while improving overall productivity.
- Low Maintenance** - Camera has no moving parts and a sealed housing with a built-in-heating system making it virtually maintenance free in all conditions.
- Proven Technology** - Fully tested in all climates and conditions.

720 Series

The 720 series is available for all Xpress versions and provide video tracking for larger highways, tunnels and bridges utilizing two ultra wide angle lens cameras. The system set-up and configuration remains the same while providing additional field-of-view and a larger detection area.

Technical Specifications

	Control Unit	Camera
Connectivity	LAN interface, Camera interface, WAN interface	IP addressable, Digital camera (single or dual)
Display	Real-time video feed, Active zones, Vehicle data	--
Additional Features	Monitors phases and loops, Generates calls to controllers	Color imager, 2560 x 1920 effective pixels, 2.0 lux, Dynamic range 55 dB, 360 degree FOV
Dimension and Weight	12.25" x 11.25" x 3.25" (w x d x h) 10.5 lbs.	10" diameter x 9" 9 lbs.
Environmental	-29F to +165F (-34C to +74C) 0 - 95% non-condensing	-29F to +165F (-34C to +74C) 0 - 100%
Power/Communications	30W, 120-240 VAC, 50 to 60 Hz	48 VDC, Single burial grade CAT5e cable

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