FLIR's Smart City Platform
ACICLICA

The Acyclica smart city platform is a web-based data analytics tool that transforms mountains of data into actionable information to help agencies better understand travel times, traffic patterns and congestion. From real-time congestion mapping to "point and click" origin-to-destination analysis, Acyclica helps agencies understand how people move. A range of automated reports, powerful user interface, and comprehensive APIs ensure that data is where you need it, when you need it.

SMARTER ROADS, SAFER CITIES

Acyclica provides the tools needed to understand and reduce congestion for greater safety.

• Fusing data from multiple sources helps uncover insights that aren't available anywhere else.

• A wide range of analytics and tools helps agencies monitor travel times and traffic patterns.

• High-resolution, real-time data allows for the monitoring of current conditions, as well as historical analysis.

COLLECT VALUABLE TRAFFIC DATA

Integrating infrastructure and data from a host of sources and partners, Acyclica intelligently fuses data from road users in motion.

• Collect vehicle class and measure traffic volume, speed, occupancy, headway, and gap time

• Use Wi-Fi to anonymously track how road users move and calculate travel and delay times at intersections

• Determine origin destination, turning movement counts, and real-time congestion mapping

• Sunlight readable screen; visible through polarized glasses

CLOUD-BASED DATA ANALYTICS

With an industry-leading user interface, Acyclica generates automated reports and comprehensive APIs.

• Secure and reliable cloud software enables inter-agency data sharing

• Automated reports sent straight to your inbox

• A powerful set of APIs provides integration with variable message signs, automated traffic management systems, public websites, and custom applications

SPECIFICATION

System Overview	
Cloud reliability & Performance	Auto scaling groups and auto instance failure recovery. Network failure recovery via auto buffering on sensors and detectors. AWS CloudWatch monitoring; Pro-active support staff alerting on fault detection.
Cloud Communication	Plug & play HTTPS secure communication; TLS 2048-bit encryption.

Module Compatibility								
	DA-400	TrafiSenseAI	TrafiSense2	TrafiSense	TrafiOne	TrafiData	TrafiSense2 Dual	TrafiCam x-stream
Essential VSO	Included *	Included	Included	Included	Included	Included	Included	Included*
FLIR VSO	Optional *	Optional	Optional	Optional	Optional	Included	Optional	Optional*
Travel Time	Included	Optional	Optional	—	Optional	Included	—	—
DA	Included	—	—	—	—	—	—	—
Intersection Performance	Included	Optional†	Optional†	—	—	—	—	—
Route Performance**	Optional	Optional	Optional	—	Optional	Optional	—	—
VSO (non-FLIR)	Optional*	—	—	—	—	—	—	—
VPN	Optional	—	—	—	—	—	—	—
Reporting**	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional*
Planning**	Optional	Optional	Optional	—	Optional	Optional	—	—

Data types								
	DA-400	TrafiSense I	TrafiSense2	TrafiSense	TrafiOne	TrafiData	TrafiSense2 Dual	TrafiCam x-stream
Wi-Fi	yes	yes	yes	—	yes	yes	—	—
VSO	yes*	yes	yes	yes	yes	yes	yes	yes **
FLIR Events	yes*	yes	yes	yes	yes	yes	yes	yes **
Thermal Images	yes*	yes	yes	yes	yes	yes	yes	—
Visual Images	—	—	—	—	—	—	—	—
Signal Phase	yes	yes	yes	—	—	—	—	—
Detector Activation	yes	yes	yes	—	—	—	—	—
Cabinet Health	yes	—	—	—	—	—	—	—
Modem	yes	—	—	—	—	—	—	—
3rd Party VSO	yes*	—	—	—	—	—	—	—

* Requires additional hardware
** Requires Travel Time Module
† Included with TI BPL2 EDGE B&SIU Interface

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