



Next-Generation Signal Control

Overview

Centracs[®] Edaptive is Econolite's next-generation cloud-based adaptive signal control system which optimizes signal cycle, offset, and splits in real time using high-fidelity 1/10th-second resolution data. This Centracs Edaptive module offers deep analytical capabilities through Econolite's Centracs SPM (Signal Performance Measures) and Pattern Optimizer modules, allowing users to ensure maximum performance of their signal control system quickly and easily.

Benefits to Transportation Agencies and the Traveling Public

Centracs Edaptive provides highly-automated, realtime signal adaptation. Centracs Edaptive balances sustainability and reliability with the latest in adaptive algorithms. Target applications include corridors with highly variable traffic patterns, changing weather conditions, special events, high-priority corridors requiring maximum performance, and many others.

Key Features

- Provides signal timings for real-time traffic conditions
- Adapts to changes in traffic as they happen, i.e., weather, construction, and major events
- Increased flexibility with existing stop bar detection, e.g., red light running, turning movements and other
- Reduces or eliminates costs of manual traffic counts
- Provides new levels of mobility and safety
- Increases agency benefits when using Centracs SPM data



With Centracs[®] Edaptive, agencies can make the most out of their existing detection system. With advanced algorithms, stop bar detectors are used to drive split optimization. Centracs Edaptive includes additional wdditional options exist for cycle optimization

Centracs Edaptive provides real-time adaptive traffic control, which increases roadway efficiencies and reduces traffic congestion. Centracs Edaptive allows for the proactive optimization of traffic signals even as traffic conditions change. Optimized traffic signal timing means more green lights, enhanced safety, and shorter commutes.

Additional Modules Available

- SPM (Signal Performance Measures)
- Device Management
- Intersection Control
- Traffic Management
- Timing / Pattern Optimizer
- Interoperability
- Integrated Corridor
- Edaptive
- DMS (Dynamic Message Signs)
- Video
- MMS (Maintenance Management System)
- Priority

ENABLE	D CORRIDOR	LATEST PUN	ANALYSIS PERIOD	DATA SOURCE			LATEST	
•	1. Nimitz Hwy Clig 1-9	10/23/22, 3:00 PM	10/16/22 - 10/22/22			10/23/3	2, 300	н б
•	2. Nimitz Hwy (Sig 10-10)	10/23/22, 3:00 PM	10/16/22 - 10/22/22		15/23/22, 300 FM			
	3. Ala Moana (Sig 17-24)	16/23/22, 3:00 PM	10/16/22 - 10/22/22			10/21/3	22, 3:00	na @
्य	6. Ala Moana (Sig 25-31)							0
	s. Als thoses (Sig 25-34) - Ar	16/23/22, 3:00 PM	10/16/22 - 10/22/22					0
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Pattern Optimizer

	Optimization / Runs / 1. Nimitz Hwy (Sig 1-9): Oct 2		7, 2022 05:30 AM Eduptiv		et is running 📩 Expert 🛞 Delete 🏚 Settings 🚦 Wew De		
	Cct 27, 2022 05:30 AM		Oct 27, 2022 05:30 AM	P Parton	Masse @	status Edaptive Completed Successfully	
	SIGNAL NAME		TIME OF LAST PROCESSED RECORD		UPLOAD TIME		
	01 - N Nimitz Hary (E) Sand Island Access Rd. 07 - N Nimitz Hary (E) Alakawa St. 09 - N Nimitz Hary (E) Pacific St. NB		96/27/2022 9.58 AM 10/27/2022 9.59 AM 96/27/2022 9.59 AM		10/27/2022 10:62 4M 10/27/2022 10:63 AM 10/27/2022 10:63 AM		
	05 - N Nimitz Hwy () Walakami	ilo Rd.	10/27/2022 10:00 AM		10/27/20	22 10:04 AM	
	08 - N Nimitz Hary () Pacific St EB		10/27/2022 10:01 AM		10/27/2022 10:08 AM		
	02 - N Nimitz Hwy (3) Puuhale Rd.		10/27/2022 9:54 AM		10/27/2022 10:09 MM		
	06 - N Nimitz Hwy (3) Fishing Village		10/27/2022 10:04 AM		10/27/2022 10:11 AM		
	04 - N Nimitz Hay (3 Kalihi St.		10/27/2022 10:06 AM		10/27/2022 10:17 AM		
	63 - N Nemitz Hary @ Mokauea St.		10/27/2022 9:38 AM		10/27/2022 9:58 AM		

Signals Overview



Learn more about additional Centracs capabilities



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