

Overview

McCain's *Omni eX*[®] intersection control software is an advanced, fully NTCIP compliant program that is compatible with any ATC standard traffic controller. Capable of operating on Model 2070 and NEMA based controller platforms and interfacing with any style cabinet – Caltrans, NEMA TS 2 Type 1 and Type 2, and ITS cabinets – the revolutionary *Omni eX* software provides a single solution for any infrastructure.

Omni eX intersection control software easily integrates with McCain's *Transparency*[®] central management software, providing complete ITS functionality by controlling all NTCIP compliant devices through a single system and user interface.

Benefits

- Fully NTCIP compliant intersection control software promotes communication and compatibility between manufacturers, providing users with a choice of vendors and preserving their investments
- Assignable inputs and outputs (I/O) per user specification
- Measures of effectiveness logged through powerful data collection
- Compatible with any ATC standard controller; vendor independent

Product Description

Omni eX intersection control software provides comprehensive, signalized intersection control for any ATC compliant traffic controller, including Model 2070 and NEMA based hardware configurations.

This fully NTCIP compliant firmware can accommodate 16 vehicle and 16 pedestrian phases, each with an equal number of overlaps, 253 coordination patterns and 128 local detectors. In accordance with the latest MUTCD standards, it can also accommodate protected/permitted left turns with a flashing yellow arrow (PPLT FYA).

Powerful data collection features are provided, including measures of effectiveness (MOE), with results uploadable locally via USB or to a central management system. Built in data validation ensures accuracy and consistency of user entered configuration data.

Standard Features

Phases

- 16 volume/density vehicle phases
- 16 pedestrian phases
- 4 rings
- Automatic barrier calculation based on compatible phases
- Variable phase sequence
- Exclusive pedestrian-phase operation
- Alternate timing for special vehicles or pedestrians
- Advance and delayed WALK operation
- 4 phase banks allow different sets of phase timing and options

Coordination

- 253 patterns
- Phase sequence selection by pattern
- Recall selection by pattern
- Fixed, floating, manual force off selection
- Reference cycle to beginning or end of green
- Change phase, overlap, or detector options by pattern

Inputs

- Alarm inputs (16)
- Special functions (16)

Outputs

- Special functions (16)
- Auxiliary outputs (8)

Field I/O

- All input and output functions are individually assignable (I/O map)
- Internal Boolean logic gates

Detection

- 128 local detectors
- 32 system detectors
- Phase assignments configurable per detector
- Each detector supports all NTCIP detector options including count, call, and extension
- Delay and extend
- Volume/occupancy configurable per detector
- Detector failure monitoring (stuck on, stuck off, and erratic calls) configurable by time-of-day (TOD)

Communications

- NTCIP compliant communications
- Data validation during download process
- USB for quick database upload/download, firmware upgrades, log retrieval
- All industry standard communication infrastructures supported

Preemption

- 8 preemption sequences
- Each sequence can be configured for railroad or emergency vehicle
- Definable priority and "linking"
- Flash, limited service

Overlaps

- 16 vehicle overlaps
- 16 pedestrian overlaps
- Negative vehicle and pedestrian phases
- Flashing yellow arrow (PPLT)

Time of Day Scheduler

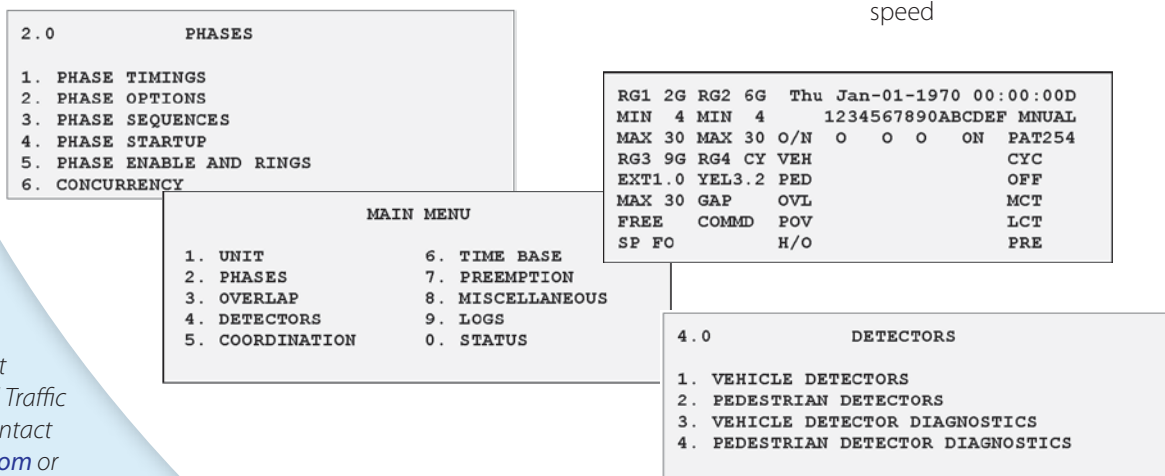
- 64 schedules
- 64 day plans
- 48 events

Time of Day/Day of Week Functions

- Minimum, maximum, and soft recall
- Red rest by phase
- Vehicle recall by phase
- Detector plan
- Pedestrian recall by phase
- Rest in walk
- Alternate phase timings and options
- Alternate detector configuration and diagnostics
- Alternate overlap configuration
- Phase omit
- Pedestrian omit
- Phase sequence
- Conditional service
- Second phase maximum

Logs

- NTCIP Global Reporting conformance group for user defined event logging
- Extensive event log for management and diagnostic purposes
- Cycle-based measures of effectiveness
- Detector volume, occupancy and speed



To learn more about McCain's Integrated Traffic Solutions, please contact info@mccain-inc.com or call (760) 727-8100

