

# W4IKS-2070

## 2070L Local/ Master Software



### DESCRIPTION

W4IKS is the most advanced, user friendly, and most widely used local controller firmware in the country. The IKS stands for “Includes the Kitchen Sink” and this firmware certainly lives up to it’s name. W4IKS has now been adapted to the 2070L controller utilizing the OS9 operating system. And of course, the W4IKS-2070 will run W4IKS timings.

This versatile 2070 program uses terms and timing parameters found in NEMA programs with the addition of many important features not found in any other programs. A unique command box feature allows users to “customize” the program to accomplish things that no other program can.

The philosophy at Wapiti Micro Systems is to provide a software package that is versatile enough to meet any unique applications your intersection may require. This concept eliminates the need for single application software that will only work in limited locations, thus allowing the user to standardize on one software package that can be used anywhere! We designed the structure and operation of the program to meet the needs of the practicing Traffic Engineer and Signal Technician for now and in the future.

### FEATURES

Enhanced 170 type FREE DISPLAY (\*when used with 8 x 40 LCD display)

Phase & Condition stay in view when entering data.

Phase & Condition also shown in English.

Keystrokes displayed on separate line.

For data entry—the data label is shown with its value.

#### Phases

- Rings
- Overlaps
- Pages
- Intervals
- (4) Limited service charts
- (8) Right turn overlaps
- Advance warnings
- Overlap delay time
- Operator set barriers
- Soft recalls
- Restricted phases
- Conditional service
- Dual entry
- Left turn type

#### Per Phase

- Max & Max II
- Walk & Walk II
- Advance Walk
- Walk Delay
- Walk Min.
- Handicap Walk
- Flashing DW
- EV Flashing DW
- Min.
- Max Min Initial
- Passage

#### Per Phase - (continued)

- Min Gap
- TBR
- TTR
- ADD/Act
- Yellow
- All Red
- Red Revert
- Red Revert Min



## FEATURES—CONTINUED

### Coordination:

- Operator set priority for plan implementation from:  
TOD plan, TOY plan, Modem plan, Hardwire plan, Command Box plan, Input plan, Bus plan, Manual plan.
- (32) Plans
- Dwell or Enhanced transition
- Earliest start point for each phase
- Allowable service time each phase
- Max service time each phase
- Split or force off settings
- Ped permissive per phase
- Permissive 1 & 2 per phase
- Offset—offset point
- Plan to run with set ped activation
- Coord max recall
- Coord min recall
- Coord ped recall

### Inputs/Outputs:

Each of the 64 inputs and 80 outputs has its own assignments (x5pages)

### Outputs:

- Select output for pin from all available outputs (multiples allowed)
- Each output can be assigned for flashing.
- Each output can be assigned for dimming.

### Inputs:

- 20 possible assignments for each input pin.
- Phase
- Extension and/or call
- Delay timing
- Carryover timing
- Type 3

### Inputs (continued)

- Switching
- Ped
- Count
- Sample
- Fail on time
- Fail off time
- Length bin assignment
- Speed loop A or B
- Length
- Occupancy
- Options 1-4

Options = EV, RR, LRT, Bus, Ped inhibit, Adv Enable, Advance, Flash Sense, Stop Time, Flash, Hold, Force, Time Transfer, Max II, Free, Cycle, Split, Offset, Coord Plans 1-18, Special Functions, Command Box, Overlap Ped, Handicap Ped.

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### Pre-emption

- EV's
- RR's
- LRT's
- Bus

### EV

- Delay
- All Red before EV
- All Red
- Min after call
- Min / Max
- Priority against other Pre-empts
- Hold priority
- Force priority
- Recovery method
- Min time before next call
- Early terminate phase
- Return phase(s)

### RR

- Double clearance
- Clear phase(s)
- Clear overlaps
- Limited phase(s)
- Limited overlaps
- Return phases(s)
- Clear time 1
- Clear time 2
- Priority against other pre-empts
- Hold priority
- Force priority
- Invert input call

### Bus

- Bus plans
- Delay
- Frequency
- Priority

### LRT

Clearance phase(s)  
Limited phases  
Limited overlaps  
Return phases  
Delay  
Time to Green for LRT  
Allow move to return phase if time allows  
Min / Max  
Limited wait  
Flash go light  
Recovery method

### Command Box

Hold priority  
Force priority  
(16) latches  
(16) timers (6,499.9 seconds)  
Box size—5000 entries

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### Traffic Management:

W4IKS-2070 firmware has been designed to operate with W7OSM-2070, an on-street master program also developed by Wapiti Micro Systems. Both have been developed to communicate with TrafficView32, a Closed Loop Traffic Management System. The purpose is to create a powerful system that allows a Traffic Engineer to fully control & maintain all of his intersections right from his desktop.

Wapiti Micro Systems Corp.

4565 Glenbrook Rd Willoughby, OH 44094

PH# 440-975-1167 FX# 440-951-8203

www.wapitimicrosystems.com