

## Overview

Using the Linux platform, Intelight's award-winning MAXTIME local controller software was built directly from the current NTCIP, NEMA, MUTCD, and FHWA (including NTCIP v2.06 and ATC 5201) standards as opposed to adapting older software to the newer standards. In addition to being the most complete NTCIP compliant Linux-based platform in the industry, MAXTIME has been intuitively designed with logical menu structures and provides built-in user functions that typically require complex logic strings or modified controller operations. Contact Intelight today to see how MAXTIME can help update your signal operations system to 21<sup>st</sup> century technology!



Sample MAXTIME home screen display as viewed from color front panel, tablet or smartphone (no app required)

## Highlights

- Individual user accounts with change tracking (Front panel and Web UI)
- Advanced security based on current industry practices
- Integrated signal performance metrics to aid in signal optimization strategies
- Monitor and configure timings wirelessly from a laptop, tablet, or smartphone without database editor or third party software
- Runs exclusively on Linux O/S
- Supports serial and/or Ethernet communications
- 40 Phases, 16 Rings, 20 Sequences, 32 Overlaps
- 10 phase tables, 10 detector tables (select by TOD)
- Built-in master/closed loop functionality (included)
- Peer-to-peer communications (included)
- Locally adaptive transit prioritizer (included)
- Full NTCIP MIB supplied with software license
- Preconfigured or user-defined cabinet support (332, 336, TS-1, TS-2, ITS)
- Connected Vehicle ready via subset of NTCIP 1202 v3 objects

## Unique Functionality

- Peer-to-peer communications between controllers
- Intuitive and advanced user logic programming
- Onboard web server (edit database through web browser, no proprietary database editor)
- Monitor and modify timings from Windows and Apple computers, IPADs, tablets, smartphones without special software
- Store and switch between hundreds of timing databases on controller
- Easy, automated software updates via network or USB flash drive (no need for terminal servers or proprietary installer programs)

## Support Advanced Intersection Configurations

- Single Point Urban Interchange (SPUI)
- Continuous Flow Intersections (CFI)
- Diverging Diamond Interchange (DDI)
- Compound intersections with multiple approaches
- Bus and Light Rail Transit (TSP/LRT) applications
  - Predictive arrival/departure adjustments
  - Multiple check-in/out detectors via P2P
- HAWK/pedestrian hybrid beacons
- Preemption routing

Phase	1	2	3	4	5	6	7	8	>
Walk	0	0	0	0	0	0	0	0	0
PedClr	0	0	0	0	0	0	0	0	0
DontWlk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MinGrn	5	5	5	5	5	5	5	5	5
Passage	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0	
Max 1	45	60	35	60	45	60	35	60	
Max 2	0	0	0	0	0	0	0	0	
Max 3	1	1	1	1	1	1	1	1	
YelChg	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
RedClr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
RedRvrt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DynMax	0	0	0	0	0	0	0	0	
MaxStep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DlyGrn	0	0	0	0	0	0	0	0	
DlyPed	v0	0	0	0	0	0	0	0	

MAXTIME front panel user interface

## Features and usability

- Rapid transition times with user-override min/max limits
- Extended pedestrian features including: delayed walk, delayed, green, and alternate walk/FDW timing per 2009 US MUTCD, advanced handling to over-sized pedestrian times
- Multiple overlap types including :
  - NTCIP: types 1 through 3
  - Flashing Yellow Arrow (FYA) displays
  - Flashing Red Arrow (FRA) displays
  - Protected/Permissive Canadian operation
  - Light Rail Transit (LRT) bar indications
  - Pedestrian (normal and minus green/yellow)
  - Right-turn with conflicting pedestrian
- 128 independently programmable coordinated or free timing patterns
- Master/slave closed loop operation included
- Linux-based (facilitates memory and processor power expansion in future)
- Advanced phase Intervals
  - Min green 2
  - Pre-green/walk,
  - Delay green/walk
  - Pre-clearance
  - Alternate pedestrian times (extended push time)



Sample MAXTIME termination report as viewed from front panel, tablet or smartphone (no app required)