



Requirements and Specifications

Surtrac Processor

- Commodity computer
- Linux-based operating system
- Wide temperature, fanless box computer
- Rated at -40 to 85 degrees Celsius

Traffic signal controller

- Wide variety supported
- Supports NTCIP for 2070 or NEMA controllers
- Supports 170 controllers with Wapiti firmware
- Support can be developed for other controller types
- Requires serial or Ethernet communication with Surtrac processor

Detection

- Lane by lane detection
- Non-intrusive, configurable detection preferred (e.g., video detection, radar detection)
- Loops are supported, but not preferred
- Supports deep integrations with a wide variety of detection vendors
- Incorporates passive pedestrian detection where available

Networking between intersections

- IPv4 Ethernet networking
- Requires low latency communications between intersections
- Fiber is the best case, point to point wireless also works well
- Uses less than 1 Mbps of bandwidth, higher bandwidth preferred

Remote internet connection

- Required for maintenance, updates, and monitoring
- Speed requirement depends on other customer considerations, such as desire to stream video from traffic cameras



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