

# CLMATS<sup>®</sup>

## CLOSED LOOP TRAFFIC MANAGEMENT SYSTEM

### TRAFFIC CONTROL

Peek Traffic's CLMATS™ is scalable closed loop traffic management system software. CLMATS does not require a large and expensive central computer. The system needs only a common Pentium® based personal computer. CLMATS is highly scalable; allowing the system to be implemented at minimal cost and expanded as funds become available.

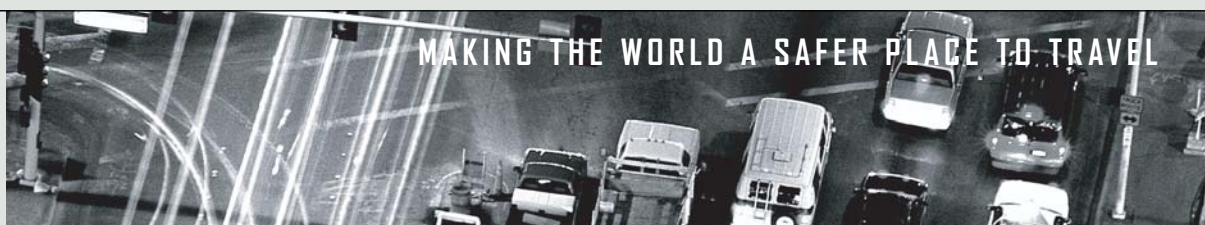
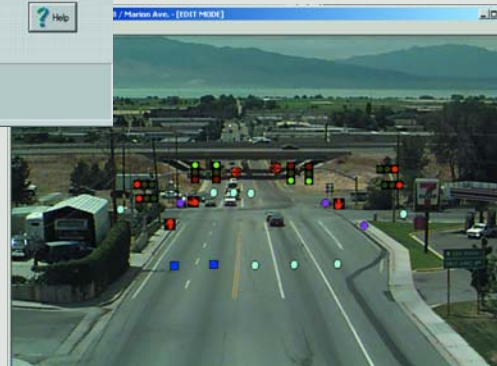
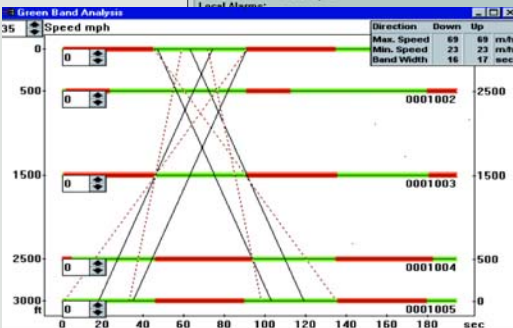
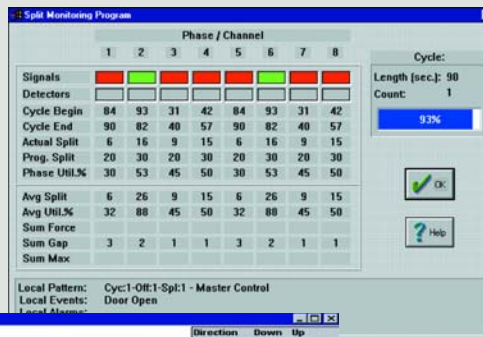
CLMATS employs the closed loop system masters as intelligent master controllers. These masters have the ability to collect and process data, then direct each intersection as to the proper pattern, providing a major benefit over central systems. CLMATS has three levels of control: master, zone and local control.

Status displays, such as master and intersection maps, and controller front panel display can be viewed in windows.

Peek Traffic's CLMATS provides many superior features in a cost effective closed loop system, making it an excellent solution for effective traffic system management.

### FEATURES

- ▶ Pentium-based computer system.
- ▶ Windows® NT version 4.0 (w/SP6) or Windows 2000 Pro based (w/SP3).
- ▶ User-selectable communications data rate.
- ▶ Upload/download of database.
- ▶ Online diagnostics monitor critical functions.
- ▶ Remote controller front panel display.
- ▶ Split monitoring for timing analysis.
- ▶ Greenband analysis.
- ▶ Controls up to 6,336 intersections.
- ▶ Monitors up to 12,672 system detectors.
- ▶ Records data for 12,672 system sensors.
- ▶ Distributed system architecture allows three modes of control.
- ▶ Flexible graphic user interface.
- ▶ Built-in report generation and data analysis.
- ▶ Standard database format.
- ▶ Database verification.
- ▶ Modem bank operation.
- ▶ Multiple simultaneous communications channels.
- ▶ Polled communications.
- ▶ Quick Status.
- ▶ Optional interface to Trafficware's Synchro® timing optimization software.



## SPECIFICATIONS

Characteristic	Description
Architecture	Distributed closed loop traffic system architecture.
Central computer system	Single operator or local area network. Remote access computers with dial up modems.
Field equipment	<ul style="list-style-type: none"> <li>▶ Intelligent master controllers.</li> <li>▶ Local controllers.</li> </ul>
Communications	<ul style="list-style-type: none"> <li>▶ Central to Master - RS232-C or Dial-up modem. Data rates 1200 to 19200 user selectable with data error checking.</li> <li>▶ Master to Local - Private Line Metallic, Fiber Optic, and Narrow Band Radio.</li> </ul> <p><i>Note: The system performance is directly related to the baud rate and stability of communications. Unstable communications will adversely affect the performance.</i></p>

## SYSTEM CAPABILITIES

Characteristic	Description
Intersection control	<ul style="list-style-type: none"> <li>▶ 64 intersections per master.</li> <li>▶ 99 masters per central computer.</li> <li>▶ 6,336 intersections maximum.</li> </ul>
System sensors	128 system sensors per master (up to 16 system sensors per intersection controller).
Downloading/uploading	<ul style="list-style-type: none"> <li>▶ User selectable partial or full data upload and download.</li> <li>▶ Master or individual intersection.</li> <li>▶ Multilevel and critical data element security.</li> <li>▶ Automatic configuration verification.</li> </ul>
Systemwide intersection monitoring	<ul style="list-style-type: none"> <li>▶ All local functions.</li> <li>▶ Controller status.</li> <li>▶ Automatic configuration verification against central database.</li> </ul>
Systemwide detector/sensor monitoring	<ul style="list-style-type: none"> <li>▶ Absence, Locked, Erratic, Minimum presence.</li> </ul>

## MODES OF OPERATION

Characteristic	Description
Master traffic responsive mode	<ul style="list-style-type: none"> <li>▶ 16 sensors per intersection controllers.</li> <li>▶ 22 computational channels.</li> <li>▶ 12 sensors per channel.</li> </ul>
Time of day mode	Master Time of Day - 32 different day plans, 15 week plans, 50 exception days, external time clock reset.
Status display	<ul style="list-style-type: none"> <li>▶ Master map display.</li> <li>▶ System sensor display.</li> <li>▶ Watch master traffic responsive.</li> <li>▶ Greenband analysis.</li> <li>▶ Intersection graphic map display.</li> <li>▶ Controller front panel display.</li> <li>▶ Split monitoring.</li> <li>▶ Communications status and baud rate.</li> </ul>
Database	<ul style="list-style-type: none"> <li>▶ Intersection timing and configuration data.</li> <li>▶ Master controller data.</li> </ul>
Reports	<p>Reports are displayed, printed, or exported to a disk in a variety of popular file formats. Available reports include:</p> <ul style="list-style-type: none"> <li>▶ Event Log.</li> <li>▶ Repair Log.</li> <li>▶ Sensor Data.</li> <li>▶ Timing Plan.</li> <li>▶ User Access Logs.</li> <li>▶ Opticom Logs.</li> </ul>
Central computer equipment	<p>As a minimum, all computers must meet the following requirements:</p> <ul style="list-style-type: none"> <li>▶ Windows® NT 4.0 Service Pack 6a or Windows 2000 Pro w/SP3.</li> <li>▶ Keyboard and mouse.</li> <li>▶ P200 processor.</li> <li>▶ 1GB hard drive, 64 Mb RAM.</li> <li>▶ 17" VGA monitor.</li> <li>▶ 56 Kb modem.</li> </ul> <p>Remote computers can be notebooks with similar configurations.</p>



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