

PEMS-2CT



The PEMS-2CT Portable Traffic Monitoring platform provides real-time traffic video and traffic data. The PEMS-2CT uses solar power and wireless communications to provide 24/7/365 autonomous traffic monitoring anywhere in the continental United States. Traffic data and video from the PEMS-2CT can be viewed stand-alone on a personal computer or integrated into existing traffic management systems.

The PEMS-2CT trailer integrates solar, no-maintenance battery power, and wireless communications with technical solutions for video and traffic monitoring:

- The mast is capable of reaching 35 feet in height;
- The mast is adjustable from 16 to 35 feet and has a maximum payload capacity of 30 pounds;
- The mast can be rotated 360 degrees when in the vertical position;
- The chassis includes two weather proof, lockable battery boxes, solar panels, and one cabinet for electronic components;
- In the folded position the trailer less the hitch shall not exceed 112 inches in length, 72 inches in width and 114 inches in height with solar panels.
- System includes a COHU 3960 camera providing up to 30 frames per second, 35x zoom, color, day/night performance.
- System includes a SmarTek Systems SAS-1 passive acoustic traffic sensor providing volume, speed, and occupancy in up to 5 lanes.
- Communications supported via Verizon Wireless or Sprint

Camera Specifications

Pan range:	360° continuous rotation
Tilt range:	-90° to +90°
Preset positions:	64 preset positions (each preset includes pan, tilt, zoom, focus and 24 character ID label)
Image sensor:	¼" Sony Ex-View HAD
Total pixels:	NTSC: 811x508, PAL: 795x596
Resolution:	Typical 540 HTVL; 400 VTVL
Video Output:	1.0Vp-p @ 75 ohms, Progressive scan
Operating Temperature Limits:	-29.2° to 165° F

Traffic Sensor Specifications

Number of lanes:	5
Output:	Std. per lane traffic flow measurements of vehicle volume, lane occupancy and speed
Measurement archiving:	Up to 60 days depending on size of installed flash memory
Signal interfaces:	RS-422 hard wired home run up to 2000 feet, RS-232 hard wired home run up to 100 feet
Operating Temperature:	-20° to 75° C