

805-T-124 INTEGRATED VIDEO VEHICLE DETECTOR SYSTEM

(Revised 04-25-21)

The integrated video vehicle detector system shall have a CCD video image sensor and a machine vision processor as a single unit. The system shall be capable of monitoring vehicles on a roadway via processing of video images and shall provide detector outputs to a traffic signal controller.

Only models from the QPL of Traffic Signal and ITS Devices shall be used. Integrated video vehicle detector systems will be placed and maintained on the QPL after being evaluated and approved by the Department. Manufacturers wishing to have their system considered should contact the Highway Support Manager, Operations Support Division.

The integrated video vehicle detector system shall include the integrated CCD video image sensor and the machine vision processor, mini-hub or hub, camera and receiver using integrated wireless technology for communications, set-up and operating software, all connectors, wiring and miscellaneous equipment necessary for the installation and operation of the system.

A 10 year operational warranty or standard manufacturer's warranty, whichever is longer, shall be provided for each:

- (a) integrated CCD video image sensor and machine vision processor and hub or mini-hub; and
- (b) camera and receiver using integrated wireless technology for communications.

The effective date for the beginning of the warranty shall be the traffic signal turn-on date as noted on Traffic Signal Completion Report Form (IC 636). A written copy of the warranty shall be presented to the Engineer prior to final acceptance of the contract.

The warranty shall service all defects in material or workmanship of the equipment. The manufacturer shall not be responsible for damage caused by negligence, severe weather acts such as lightning, flood, etc. or use of the equipment in a manner not originally intended. Temperatures between -30°F and $+165^{\circ}\text{F}$ are not considered severe weather acts. The vendor or manufacturer shall be responsible, during the warranty period, for transportation costs of items requiring warranty service to and from the Operations Support Division, Highway Support Section. A maximum turn-around time for service of defects in material and workmanship of equipment shall be no longer than 60 calendar days. Continued failure, repeated malfunctions, or exceeding the maximum turn-around time for warranty service will be cause to remove that model from the QPL.

The system will be measured and paid for at the contract unit price per each for integrated video vehicle detector system, complete in place.

The integrated CCD video image sensors and machine vision processor, mini-hub or hub, camera and receiver using integrated wireless technology for communications, set-up and operating software, all connectors, wiring, miscellaneous equipment necessary for the installation and operation of the system, and the warranty shall be included in the cost of the integrated video vehicle detector system.

The mounting structure(s) will be measured in accordance with 805.15 and paid for in accordance with 805.16.
