VideoTrak-IQ is Signal Group’s latest innovative product in the video traffic detection line. Combining the pedigree of the ground-breaking multi-channel VideoTrak line and the ease-of-use features of the single channel UniTrak products, VideoTrak-IQ is truly the best of both worlds. With the ability to view and monitor four video channels at a time using a single card or shelf-mounted unit, and the ability to configure zones interactively onscreen using a standard monitor and mouse, VideoTrak-IQ makes multi-channel traffic monitoring easy to configure and easy to use.

VideoTrak-IQ displays on-site traffic scenes with visual verification of proper zone placement and proper vehicle detection. It also provides a flexible, easily modified configuration of as many as 26 detection zones per channel. And as with all of the VideoTrak and UniTrak products, the most important benefit of VideoTrak-IQ is that it reduces the high maintenance costs and inefficient intersection operations caused by the failure of buried inductive vehicle detection loops.

Powerful Camera Options

The VideoTrak-IQ cards are backward compatible with VideoTrak and UniTrak cameras. And they can also be used with the new VideoTrak-IQ color camera with integrated coax control to utilize advanced features and faster install times.

Camera Lens Control ‘Over the Coax’

The new VideoTrak-IQ color camera provides a powerful new control option: Lens Control ‘Over the Coax’. The zoom and focus settings of the camera can be controlled from the VideoTrak-IQ user interface at the cabinet (on the ground) with no additional wiring.

Features

• 4 camera video detection system in the space of a single 4 channel loop detector card
• Advanced video detection algorithms utilizing dual processors for superior detection accuracy
• Individual zone sensitivity
• Zone-by-zone directionality
• Ethernet Port – units are ‘IP-Addressable’
• MPEG-4 video streaming over Ethernet for high quality remote video viewing
• Multiple USB 2.0 connectors
  -- USB Mouse
  -- USB Flash Drive support
• No PC required for setup – just a mouse and a monitor
• Hi-resolution user interface provides fast and intuitive configuration
• A three-color status LED for each video channel
• Quad screen video display allows for full intersection viewing at one time
• Rack or Enclosed Box Shelf mount options

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Advanced Features

- Hi-Z video inputs allow loop through of camera video to other video equipment/recorders
- Zoom/focus over coax
- Front or rear video inputs
- Control signals on rack edge connector include 4 detect outputs, 4 NEMA TS2 status outputs and 2 Delay/Extend enable signals
- Edge outputs selectable as fully compliant to NEMA or CALTRANS standards
- Aux I/O connector on front panel provides additional inputs and outputs and allows for direct wiring to cabinet terminals, or connection to extension cards for routing detections to other rack slots.
- Differential video inputs for minimizing ground loop noise and interference noise rejection
- Equalization and automatic video level correction compensates for the effects of long video cable runs
- Non-volatile FLASH memory for system robustness and easy field firmware upgradability
- Battery backed Real Time Clock
- Remote monitoring and configuration

Specifications

Power consumption: (4 channel VideoTrak-IQ)
- 540mA @ 12V (6.5W)
- 290mA @ 24V (7.0W)

Voltage: 10-26 VDC

Standards compliance: NEMA TS1/TS2, Type 170/179, or 2070 ATC

Environmental:
- -40°C to +85°C (-40°F to +185°F)

Dimensions:
- Height: 4.50” (114.3mm)
- Width: 2.34” (59.4mm)
- Depth: 6.88” (174.6mm)
- Handle: 1.09” (27.8mm)

Front Panel Connectors:
- (4 channel VideoTrak-IQ)
  - BNC video inputs 1-4
  - Two USB ports
  - Ethernet port
  - Aux I/O port
  - RCA video output
- (2 channel VideoTrak-IQ)
  - BNC video inputs 1-2
  - Two USB ports
  - Ethernet port
  - Aux I/O port
  - RCA video output
- (1 channel VideoTrak-IQ)
  - BNC video input
  - Two USB ports
  - Ethernet port
  - Aux I/O port
  - RCA video output

Front Panel LED Indicators:
- (4 channel VideoTrak-IQ)
  - Detect Channels 1-4
  - Video Signals 1-4
- (2 channel VideoTrak-IQ)
  - Detect Channels 1-4
  - Video Signals 1-2
- (1 channel VideoTrak-IQ)
  - Detect Channels 1-4
  - Video Signal LED

VideoTrak-IQ Configuration Environment

Quad Channel Display