

Autoscope Solo® Terra™ Interface Panel (TIP)

A video detection interface panel with “three wires only” power connections, EasyLink communications, and no coaxial cable

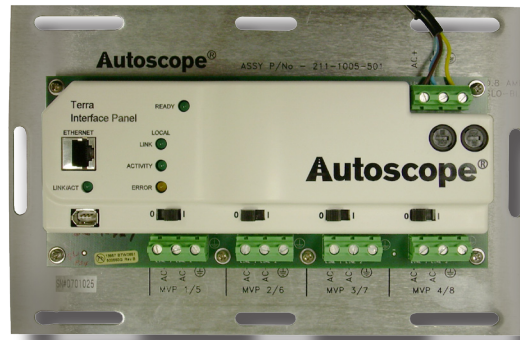
Description

The **Autoscope Solo Terra** Interface Panel provides a robust **Autoscope** EasyLink connection point in the cabinet for communicating with Solo **Terra** video detection sensors. The TIP supports “three wires only” branch cable connections to the sensors, an interface to the **Autoscope Terra** Access Point (TAP) for outputs to traffic controllers, and a standard Ethernet connection for a laptop at the cabinet or back at the office. The interface panel also protects other cabinet components from branch cable transients and surges, while making zoom set-up and sensor maintenance easily manageable directly from the cabinet.

EasyLink connectivity allows simple installation within the traffic cabinet and user-friendly integration into an agency’s Ethernet-based communications network. A standard CAT-5 cable connects the TIP into a network to view video, collect traffic data, and maintain the **Autoscope** system. **Terra Technology** products like the **Autoscope Solo Terra** sensor and **Terra** Access Point Detector Port Master (DPM) use Internet-standard, IP-based addressing with a unique Ethernet MAC address.

EasyLink connectivity means simple “three wires only” installation for the Solo **Terra** sensor to communicate digital video and data to the traffic cabinet. “Three wires only” power cabling saves time and money during set-up by quickly installing with convenient compression blocks on the TIP.

The TIP communicates with up to eight **Autoscope Solo Terra** sensors via “Broadband-over-Power” (BoP)



technology. This leading-edge, field-proven technology transmits video, supervisor communications, and detector port data over a standard “three wires only” power cable. The robust 14 Mb/sec-rated transceivers have a remarkable throughput of up to 6 Mb/sec, which is more than sufficient for the simultaneous transmission of traffic data, alarms, and MPEG-4 video.

Benefits

- Efficient “three wires only” to **Autoscope Solo Terra** sensor
- Quick installation into any traffic control cabinet configuration
- Convenient integration into an Ethernet-based communications infrastructure
- Time-saving maintenance for the traffic equipment manager

Features

- Supports up to 8 **Autoscope Solo Terra** sensors and TAP
- RJ45 Ethernet connection for laptop or cabinet network
- High-voltage transient protection
- Power line isolation

Theory of Operation

The TIP supports **Autoscope** EasyLink communications with up to eight **Autoscope Solo Terra** sensors. It provides high-voltage transient protection, mechanical strain relief, "three wires only" power connections, and a single 10/100 Base-T Ethernet network cable connection. The interface panel passes detection information from the **Autoscope** sensors to the TAP DPM for the traffic controller or cabinet. The **Autoscope** Configuration **Wizard**[®] makes detection set-up quick and easy.

The TIP is a highly integrated and optimized solution for networking Solo **Terra** sensors. It reliably delivers broadband exchanges in the challenging traffic communications environment and combats deep attenuation events, noise

sources, and multi-path fading by adjusting to the variable Signal to Noise Ratio (SNR). The system manages communications for dependable distribution of data packets and offers the high-bandwidth performance necessary to drive sophisticated traffic detection applications.

Applications

- Intersection detection
- Highway data collection
- Automatic incident detection
- Bridge, tollway, and tunnel management
- Work-zone safety and traffic control
- Traveler information systems
- Remote video surveillance

Connectors

- Input power: 3-position compression block
- **Autoscope Solo Terra** sensors power output: Four 3-position compression blocks
- TAP interface connector
- RJ45 connector for EasyLink Ethernet 10/100 Mbps communications

Power

- 5W
- 110/220 VAC, 50/60 Hz from line-filtered side of cabinet power supply
- 2 fuses

Environmental

- -29°F to +165°F (-34°C to +74°C)
- 0 to 95% relative humidity
- Up to 100% relative humidity per MIL-E-5400T paragraph 4.3.24.4

Dimensions and Weight

- 11 in. x 7 in. x 2 in. (28 cm x 18 cm x 5 cm)
- 1.7 lb (0.8 kg) on standard sheet metal panel

Indicators

- LED indicator for Ethernet link/activity
- Ready-power LED
- LED indicators for local network link, activity, and error status

Options

- DIN rail mount

Warranty

- Two-year warranty
- Extended warranty package to five years

Regulatory

- NEMA TS2 Compliant
- CE EN 55022
- EN 61000-6-1
- CE EN 60950
- FCC Part 15, Class A

Product Support

Product support and training by team of factory-trained **Autoscope** Technical Support Specialists

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