

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 Mounting

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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