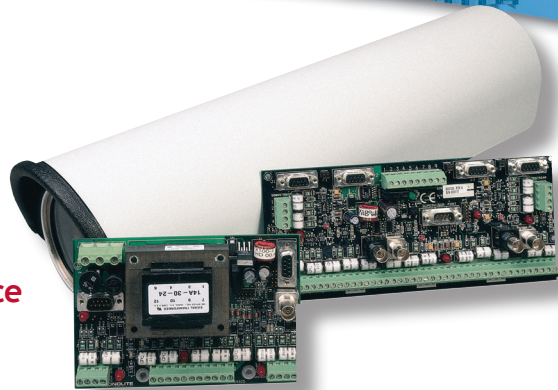


## Autoscope Solo® Communications Interface Panels - ACIP1, ACIP4

A simple, low-cost, and efficient communications interface providing both networked and local support to multiple **Autoscope Solo Pro Machine Vision Processors (MVP)**



### Cost-Effective Video Enhancement

**Autoscope Solo** Communications Interface Panel (ACIP) is available in single and four-camera configurations and is a cost-effective system enhancement for **Autoscope Solo** Pro MVP. This panel supports communications up to 230 Kbps over private line copper (twisted-pair) infrastructure. Full-motion NTSC video output is easily accessed from this panel with front-mounted BNC connections. The **Autoscope**® Communications Interface Panel provides simplified communications for the following applications:

- Fully-actuated intersection detection
- Freeway detection
- Automatic incident detection
- Tollway, bridge, and tunnel management

### Supervisor Communications Repeater Circuits

Supervisor communications are broadcast via a full-duplex RS-422, electrical repeater circuit that allows many communication panels to be daisy-chained over long distances at baud rates up to 230 Kbps. Four LEDs provide visual verification of proper network communications and assist in the location of infrastructure wiring problems. The panel supports transmission distances up to 6.4 mi (10.2 km) depending on baud rate and wire size. Two twisted-pair copper wires are required from the upstream or downstream cabinet to support networked supervisor communications.

### Detector Communications Port

A DB9 female connector is provided on the ACIP to connect a cable from the ACIP to the Mini-Hub II or Mini-Hub TS2 Detector Port Master (DPM) device used to interface to the controller. This detector port data is converted by the DPM to either standard TS1 levels (by the Mini-Hub II) or to Synchronous Data Link Control (SDLC) Port 1 Detector Rack data (by the Mini-Hub TS2).

### Features

- Single point video and programming interface for multiple Solo systems
- Configurations for a single **Autoscope Solo** Pro MVP or up to four Solo Pro MVPs
- Panels can be connected together to support 8 cameras in one cabinet
- Converts Solo Pro MVP RS-485 & differential video to RS-232 and composite video with BNC interface
- LEDs indicate integrity of communications infrastructure
- High-energy transient protection on all Solo cabling
- Full support for network communications up to 6.4 mi (10.2 km) over private line copper (twisted pair) infrastructure
- Individual **Autoscope Solo** Pro MVP BNC video connections
- Cost-effective modem interface

## Local Supervisor Port

Each Solo Communications Panel has a local Supervisor connection through a DB-9 male connector. Local Supervisor communications use standard PC serial port and Data Terminal Equipment (DTE) protocol. Standard modems may be connected to the panel through the supervisor connector, providing affordable modem access to remote locations.

## Autoscope Solo Video Output Port

Incoming **Autoscope Solo** Pro MVP video in a differential video format is converted on the Interface Panel to NTSC video. Standard 75Ω BNC connectors provide Solo Pro MVP video output for local detection system verification and for connection to third-party video transmission equipment.

## On-board Transformers

Individual step-down transformers provide isolated 24 VAC to each Solo Pro MVP. Each transformer is individually fused.

## Solo Cable Terminations

The larger terminal block on the ACIP provides termination for the cable coming in from the Solo Pro MVP. Eleven terminals (5 pairs plus chassis ground) are used for each Solo Pro MVP, as follows: 24 VAC (1 pair), chassis ground (single wire), Supervisor Communications (2 pairs), Detector Port Communication (1 pair), and video (1 pair). Two 4-terminal blocks for upstream and downstream communications are also provided. All termination points are protected by gas discharge tubes to absorb high-energy transients of up to 20 kVA for a period of 20 ms or less, with no permanent system damage.

## Applications

- Intersection control detection
- Freeway management detection
- Incident detection & verification
- Traffic survey data collection
- Work-zone safety and traffic control

### Power

- Transformer input voltage is selectable between 110 or 220 VAC 50/60 Hz

### Dimensions and Weight

- Single Solo Communications Interface Panel (ACIP1)
- Panel dimension: 2.25 in. H x 9 in. W x 7 in. D (55 mm H x 225 mm W x 180 mm D)
- Weight: 2.25 lb (1 kg)

### Four Solo Communications Interface Panel (ACIP4)

- Communications board and transformer board mounted on aluminum panel
- Panel dimensions: 2.25 in. H x 13.63 in. W x 12.63 in. D (55 mm H x 345 mm W x 320 mm D)

### Environmental

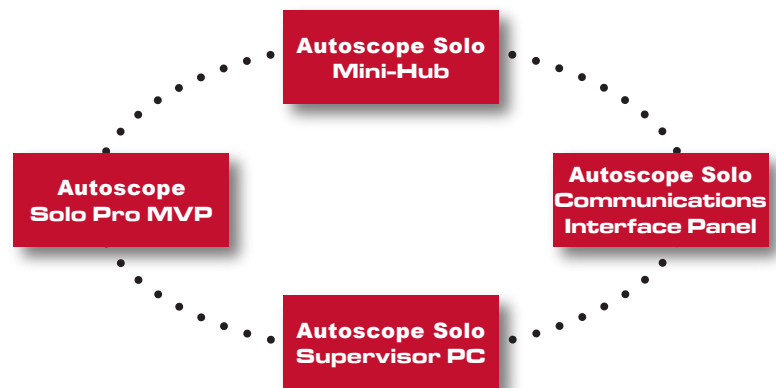
- -30°F to +166°F (-34°C to +74°C)
- 0 to 95% non-condensing over the temperature range

### Warranty

- Two-year factory warranty
- Extended warranty package available

### Product Support

Product support and training by team of factory-trained **Autoscope** technical support specialists



© 2007 Econolite Control Products, Inc. All rights reserved. Econolite Control Products, Inc. reserves the right to change or update these specifications at any time without prior notification

3360 E. La Palma, Anaheim, CA 92806-2856  
 Tel: (714) 630-3700 • Fax: (714) 630-6349  
 E-mail: sales@econolite.com  
 www.econolite.com  
 38104E0607-3  
 ECONOLITE

**ECONOLITE**  
 Solutions that Move the World®

ISO  
 9001  
 REGISTERED