

Autoscope® Pn-500



The Autoscope Pn-500 video detection system provides a complete solution for junction control. The Pn-500 detector card slides easily into a rack to provide stopline and approach vehicle detection at each approach.

The smartly designed and compact Phoenix camera delivers value in a compact package to view traffic at the junction.

With its enhanced features, both video inputs are now processed at full frame rate for improved performance in detection of faster moving vehicles.

The detector card contains 16 open collector outputs, each with status LEDs on the front panel as well as mini-USB for setup.

Traffic managers will benefit from this streamlined and cost-effective solution that offers non-intrusive fast setup, minimal maintenance, and high performance.

APPLICATIONS

- Junction control
- Ramp monitoring
- Advance detection

FEATURES

- Vehicle presence detection
- Dual-camera video processor
- Enhanced USB or TCP/IP connectivity (through adapter)
- 64-pin DIN connector backplane provides convenient terminations for power, communications, detector I/O and video inputs
- Vehicle presence outputs via backplane screw terminations
- LED indicates status for power, communications, video, and detector I/O
- Low power consumption

BENEFITS

- Cost-effective solution for junction control
- Field proven accuracy and reliability through ISS Terra technology
- Easy to install, configure and maintain
- Easily integrated into controllers and detector racks



Autoscope Pn-500

SPECIFICATION

Processor

Power

- 12 to 24 VDC, 8W maximum)

Video

Input

- PAL (25 fps), NTSC (30 fps)
- Two Channels 75Ω 1 Vpp, BNC connector

OR

- Screw terminal differential video connections

Output

- 1 Vpp, BNC connector on front
- PAL or NTSC

Communications

- USB Supervisor communication via mini-USB connector on front
- Ethernet communication via USB to Ethernet adapter (optional).

Detector I/O

- 16 outputs, (open collector, selectable active low or high by hardware jumper)
- 4 inputs
- 1 status output (open collector, active low) to indicate card is processing and detector I/O valid

Environmental

- -34° C to +74° C (-29° F to +165° F)
- 0 to 95% relative humidity, non-condensing

Dimensions and Weight

- H x W x L (3U x 160mm)
130 mm x 20 mm x 207 mm
(5.12 in x 0.80 in x 8.15 in)
- 0.16 kg (0.35 lb)

Warranty

- Two-year warranty
- Extended warranty package available

Regulatory

- CE EN 55022, EN 61000-6-1, RoHS

Camera

Power

- 20 to 36 VDC
- Consumption, current draw
- 100 mA nominal at 24 VDC, 2W

Video

Output

- PAL

Lens

- Focal length: 4.3 mm and 8mm
- Signal-to-noise: >48 dB
- Dynamic Range: 50 dB

Housing

- UV resistant IP67 enclosure
- IR reduction front plate design
- Sunshield protecting from UV and water
- Adjustable and sturdy mounting bracket

Environmental

- -34° C to +60° C (-29° F to +140° F)
- 0 to 95% relative humidity, non-condensing

Dimensions and Weight

- H x W x L
156 mm x 144 mm x 92 mm
- 0.91 kg (2 lbs)

Warranty

- Two-year warranty
- Extended warranty package available

Regulatory

CE EN 55022, EN 61000-6-1, RoHS

SET-UP AND OPERATION

The Autoscope Pn-500 system is easy to install, set up, and operate to meet your vehicle detection requirements.

- Processor slides directly into detector racks.
- Setup uses simple mouse and keyboard commands via the Autoscope software to create detection zones for up to 4 lanes per camera for vehicle presence applications.

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