EagleEye Pro

0.3M-2M and Mono/Color Smart Camera

Features

- Fully integrated smart vision system
- Mono and color CCD sensor options
- Resolution up to 2M pixels
- Extensive list of drag-drop instructions
- ROI shape selection: Rectangle, Annulus, Polygon, Line, Point, Polyline, Arc, Rake, Polyrake, Spoke
- Versatile library of instructions, preprocessors, and algorithms
- Support multiple image feature matching function
- Flexible triggering and direct control over illumination (light strobing)
- Scripting provides integration flexibility and custom control
- Direct support for factory protocols including Ethernet/IP, Modbus and ProfiNet
- Support for image and results logging to connected network drives
- Full featured API for custom operator interface design
  *Lens is not included

RoHS COMPLIANT 2002/95/EC FCC CE

Introduction

Advantech EagleEye Pro is a fully integrated vision system in a compact "smart" camera format. EagleEye Pro vision systems are able to be configured and monitored remotely using an Ethernet connection to a PC or factory network. Small and rugged devices can be easily integrated into existing production lines, machinery, or moving equipment.

Advantech EagleEye Pro with built-in opto-isolated I/O allows direct wiring to associated control devices. 10/100 BaseT Ethernet port provides setup and monitor access, runtime control, and standard communication protocols and passive Power over Ethernet supports single cable interface option. An integrated lamp connector provides power and strobe control to external LED light sources; EagleEye Pro offers the design flexibility and inspection capabilities to satisfy a diverse range of applications across all industries.

Specifications

General

- **Memory** 256 MB
- **Sensor** 1/3 inch CCD
- **Resolution** 640x480,1024x968,1280x960,1600x1200
- **Image** Mono or Color Progressive Scan
- **Exposure** 22us to 1000ms
- **Network** 10/100 BaseT Ethernet
- **Serial Port** RS-232
- **Power** 12-30V (via Ethernet or IO connectors, not PoE compliant)
  150mA max@24V (device)
  1A max (LAMP,EagleEye Pro powering light source directly)
- **Dimensions** 44mm x 44mm x 56mm (without lens cover)
- **Operating Temperature** -10~50°C (14~122°F)
- **Storage Temperature** -60~80°C (-140~176°F)
- **Protection** IP67
- **Shock** 70G

Input

- **Voltage** ON:12-30V
  OFF:0-3V(12V nominal threshold)
- **Current** ON:7.5mA type (24V applied)
- **Isolation** 4000 V_{RMS}
- **Common pin** PWR or GND
- **Switch Time** ON:10 us
  OFF:50 us
- **Latency** 62 us from trigger input to start of acquisition

Output

- **Voltage(Vin)** 24V max
- **Current** General purpose output: 100mA max (drives to OCMN when active)
  Strobe:100mA max (drives to Vin when active)
- **Protection** PTC fuses to 100mA (GPO & STRB)
- **Common pin** PWR or GND
- **Switch Time** ON:10 us
  OFF:50 us

Ordering Information

EagleEye Pro

- **AEE-M0640-PRE** 640x480 Mono
- **AEE-C0640-PRE** 640x480 Color
- **AEE-M1024-PRE** 1024x768 Mono
- **AEE-C1024-PRE** 1024x768 Color
- **AEE-M1280-PRE** 1280x960 Mono
- **AEE-C1280-PRE** 1280x960 Color
- **AEE-M1600-PRE** 1600x1200 Mono

Accessories

- **AEE-E-5E** M12-RJ45 Ethernet Cordset, 5 m
- **AEE-E-10E** M12-RJ45 Ethernet Cordset, 10 m
- **AEE-IO-5E** M12 Single-ended I/O Cordset, 5 m
- **AEE-IO-10E** M12 Single-ended I/O Cordset, 10 m
- **AEE-L-5E** M12 Single-ended LAMP Cordset, 5 m
- **AEE-L-10E** M12 Single-ended LAMP Cordset, 10 m
- **AEE-PL2IO-5E** M12-M12 I/O Cordset, 5 m
- **AEE-PL2L-5E** M12-M12 LAMP Cordset, 5 m
- **AEE-PL-100E** Basic I/O Module
- **AEE-PL-200-EE** Network 5-port-switch I/O Module
- **AEE-PL-200-IOE** Expansion I/O Module (8 Opto Inputs+Trigger, 8 Opto Outputs, 2 High Speed Opto Outputs, 1 Opto Strobe)
- **AEE-PL-200-IEE** Includes AEE-PL-200-EE and AEE-PL-200-IOE

All product specifications are subject to change without notice
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