IN-SIGHT 2000 SERIES VISION SENSORS

In-Sight® 2000 series vision sensors combine the power of an In-Sight vision system with the simplicity and affordability of a vision sensor. Ideal for solving error-proofing applications, these vision sensors set new standards for value, ease of use and flexibility thanks to a powerful combination of proven In-Sight vision tools, a simple setup, and a modular design featuring field changeable lighting and optics.

The In-Sight 2000 series includes an integrated, high-performance image formation system consisting of field interchangeable lenses and a patent-pending LED ring light that produces even, diffuse illumination across the entire image and eliminates the need for costly external lighting. Lenses and a variety of colored lights can be easily swapped out as needed to meet application requirements.

Together with the In-Sight Explorer EasyBuilder® interface, which provides a fast, step-by-step application setup, the In-Sight 2000 series allows even novice users to achieve extremely reliable inspection performance in nearly any production environment.

In-Sight 2000 series vision sensors can also be configured for in-line and right-angle mounting installation. This modular body design provides maximum flexibility to mount in tight spaces, simplifies wiring and optical paths, and minimizes the need to design new mechanical fixtures.

In-Sight 2000 Series: Features at-a-glance

- Affordable vision sensor powered by In-Sight Explorer software and EasyBuilder
- Simple for both new and existing users to address automated inspection requirements
- Proven, reliable Cognex In-Sight vision tools
- Same In-Sight Explorer interface used in advanced In-Sight vision systems
- Field changeable integrated optics and light
- Compact, modular design

Fast, intuitive setup with EasyBuilder

The EasyBuilder setup interface is ideal for solving simple presence/absence inspections. Basic pass/fail inspections can be accomplished with intuitive, point-and-click setup tools. When more complex inspections are required, users can build on their experience to create vision applications using more advanced In-Sight vision systems—in the same In-Sight Explorer interface.
Powerfully simple and affordable vision sensors

Unmatched flexibility
Field interchangeable lighting and optics make it easy to adapt to virtually any production line environment.

Powerful integrated light
Diffuse illumination technology enables robust vision inspection in the most challenging environments—without the need for costly external lighting.

The simple set up of EasyBuilder
Ease-of-use is built into the heart of the In-Sight 2000 series starting with powerful vision tools and an In-Sight Explorer software interface that makes set up simple and assures a seamlessly reliable communications link to other factory automation equipment.

Three In-Sight 2000 models
All In-Sight 2000 series vision sensors offer easy application development with the step-by-step EasyBuilder interface. The In-Sight 2000-110 and In-Sight 2000-120 models offer Pass/Fail inspection capabilities. The In-Sight 2000-130 model features a significantly expanded range of location, pixel counting, brightness, contrast, measurement and counting vision tools.
### IN-SIGHT 2000 MODELS

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### In-Sight 2000 Models

- **User Interface**: In-Sight Explorer EasyBuilder
- **Imager**: 1/3 inch CMOS, monochrome
- **Lens**: Standard M12 Lens
- **Lighting**: Optional M12 Lenses
- **Vision Tools**: Part Location, Part Inspection, Measurement, Counting
- **Communications & I/O**: Protocols: Ethernet, EtherNet/IP, PROFINET, SLMP, SLMP Scanner, FTP, RS-232 Text

### Specifications

- **Acquisition Rate**: 20 fps
- **Dimensions**: 98 mm x 68 mm x 45 mm
- **Weight**: 200 g
- **Operating Temperature**: 4–40 °C
- **Power**: 5–24 VDC
- **Power Connections**: M12: Ethernet, Power, I/O and Serial
- **Inputs**: 2 (1 trigger, 1 general purpose)
- **Outputs**: 4 (general purpose)