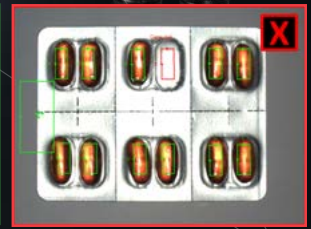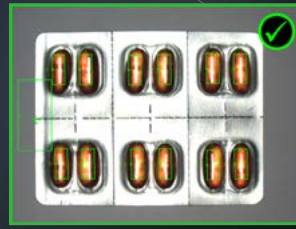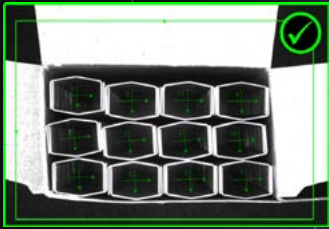# COGNEX

ISOTRON SYSTEMS

5 THINGS TO LOOK FOR
IN A VISION SENSOR

Vision sensors combine the power of machine vision systems with the simplicity and affordability of industrial sensors. Ideal for solving error-proofing applications, vision sensors offer manufacturers value, ease of use, and flexibility across many production environments. Sensors can solve simple presence/absence inspections quickly, easily, and at tremendous value. Selecting a sensor with these 5 features will help ensure your error-proofing applications run smoothly and accurately.

1 Proven vision tools

Vision technology plays a very important role for even the most basic presence/absence inspections. Vision sensors perform inspections first by locating the part in the image, and then by looking for specific features on that part. It is important that the vision sensor includes a variety of vision tools so that you can choose the best tools for your application. So, if you are going to include vision in your inspection process, it is vital to select a brand that is trusted for its high-performance, reliable vision tools, such as In-Sight®.
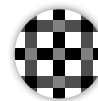
Pattern   Brightness   Contrast

Edge   Pixel Count   Color Pixel Count

2 Easy to set up

Even novice vision users should be able to easily set up, configure and install a vision sensor. In-Sight 2000 vision sensors use the intuitive In-Sight EasyBuilder® interface, which guides users through a step-by-step setup process for easy application development—no programming required. A simple point-and-click interface allows customers to build interactive, web-based HMIs accessible via a web browser over the network.

3   Integrated, powerful lighting

Factory environments and space constraints can make it difficult to achieve proper lighting conditions. This can be problematic for vision sensors, which rely on even, diffuse lighting to fixture parts and perform robust inspections with brightness, contrast, and pixel count tools. Vision sensors typically come with integrated lighting and can be connected to additional external lighting if required. Selecting a vision sensor with built-in lighting saves money on external illumination and mounting fixtures. The In-Sight 2000 comes equipped with a bright white LED ring light that produces even, diffuse illumination for high quality inspection images. Additional lighting color options are available and can be changed to match the needs of most applications.

4   Modular design

It can be difficult to mount a vision sensor in the precise location to achieve optimal FOV, image resolution, and part illumination. Vision sensors with small form factors, which fit into any space and can be configured for in-line and right-angle mounting installation, help get inspections up and running quickly. Models with autofocus lenses eliminate the need to manually refocus or adjust mounting height. The In-Sight 2000's modular body design provides maximum flexibility to mount in limited spaces, simplifies optical paths and cable routing, and minimizes the need to design new mechanical fixtures. This allows users to change lights, optics, and lenses in the field for quick line changeovers or application modifications.

5   Standardized setup environment

Technology and application requirements are constantly evolving. When selecting a vision sensor, it is important to consider not only current inspection needs but also future applications that may require more powerful and flexible vision systems. That's why In-Sight 2000 vision sensors are configured with In-Sight Explorer software—the world's most widely used environment for configuring and maintaining machine vision applications. For more complex pass/fail and go/no go inspections, users can build on their experience to create vision applications using more advanced In-Sight vision systems in the same In-Sight Explorer interface.

CALL 1 (855) 426-4639

to contact a Cognex sensor sales engineer to learn how the In-Sight 2000 can help you with your error-proofing applications. Or visit cognex.com today.

ISOTRON SYSTEMS

www.isotron.eu
info@isotron.eu

Isotron Systems B.V.
Afrikalaan 21-23
5232 BD, `s-Hertogenbosch
Nederland
Tel: +31(0)73 639 16 39

Isotron Systems BVBA
Antwerpsesteenweg 45
B-2830, Willebroek
België (luxemburg)
Tel: +32(0)3 450 70 45