MACHINE VISION
2D & 3D VISION SYSTEMS
VISION SENSORS
Cognex®, the world’s most trusted machine vision and industrial barcode reading company.

With over one million systems installed in facilities around the world and over thirty five years of experience, Cognex is solely focused on industrial machine vision and image-based barcode reading technology. Deployed by the world’s top manufacturers, suppliers and machine builders, Cognex products ensure that manufactured items meet the stringent quality requirements of each industry.

Cognex solutions help customers improve manufacturing quality and performance by eliminating defects, verifying assembly and tracking information at every stage of the production process. Smarter automation using Cognex vision and barcode reading systems means fewer production errors, which equates to lower manufacturing costs and higher customer satisfaction. With the widest range of solutions and largest network of global vision experts, Cognex is the best choice to help you Build Your Vision.™
Tens of thousands of applications worldwide inspect billions of products each day, many products that simply could not be manufactured without machine vision technology. Whether verifying the fill levels of soda bottles traveling on a conveyer, reading oil-stained DPM codes on automotive parts or positioning touch screens on smartphones to micron-level accuracy, machine vision technology performs highly-detailed tasks on high-speed production lines.

Cognex machine vision products help companies:

- **Optimize quality** by inspecting products down to the smallest detail.
- **Minimize waste** by detecting errors early in the process before thousands of items need to be scrapped.
- **Maximize throughput** by identifying process inefficiencies so operations can reach their full potential.

Cognex comprehensive line of vision sensors, 2D vision systems and 3D laser profilers all use machine vision technology to perform inspections but are engineered for different tasks.

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<thead>
<tr>
<th>Vision Sensors</th>
<th>2D Vision Systems</th>
<th>3D Laser Profilers</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Presence/Absence</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>☑ Inspection</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>☑ Guide/Align</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>☑ OCR/OCV</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>☑ Code Reading</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>☑ Gauge/Measure</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

Cognex industry-leading solutions are supported by the largest international network of application and service engineers. This experienced team ensures Cognex technology is properly integrated, empowers your workforce and helps solve a wide range of applications.
Cognex In-Sight® 2D vision systems are unmatched in their ability to inspect, identify and guide parts. These self-contained, industrial-grade vision systems combine a library of advanced vision tools with high-speed image acquisition and processing. A wide range of models, including line scan and color systems, meet most price and performance requirements.

**In-Sight 8000 Series Vision System**

The In-Sight 8000 series ultra-compact, standalone vision systems deliver industry-leading vision tool performance at PC speeds, all in the micro form factor of a typical GigE Vision camera. Measuring just 31 mm x 31 mm x 64 mm, all In-Sight 8000 systems feature Power over Ethernet (PoE) and are the best option for space-constrained production lines.

- Compact footprint, with the ability to mount at angles up to 45-degrees, is ideal for integrating into tight spaces, on robots and on hard-to-reach machinery.
- Best-in-class vision tools (including pattern matching, filtering, defect detection and barcode reading) solve a wide range of applications.
- In-Sight Explorer™ software with the intuitive EasyBuilder® interface guides users through step-by-step directions to set up simple to advanced applications.
- In-Sight spreadsheet provides greater control and ability to customize application data.

[www.cognex.com/InSight8000](http://www.cognex.com/InSight8000)

### Specifications

<table>
<thead>
<tr>
<th>Models</th>
<th>8200</th>
<th>8400</th>
<th>8401</th>
<th>8402</th>
<th>8405</th>
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<tbody>
<tr>
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<td>1280 x 1024</td>
<td>1600 x 1200</td>
<td>2592 x 1944</td>
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<tr>
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<td>217 fps</td>
<td>76 fps</td>
<td>53 fps</td>
<td>10 fps</td>
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<td>Speed Rating</td>
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<td>High</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Tools</td>
<td>Blob, Edge, Flaw Detection, Histogram, Barcode Reading, Filters, InspectEdge, OCR/OCV, Pattern, PatMax® Geometry and Calibration.</td>
<td>PatMax RedLine or barcode reading only</td>
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<tr>
<td>Tool Options</td>
<td>In-Sight Explorer Spreadsheet and EasyBuilder Interface</td>
<td></td>
<td></td>
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</tbody>
</table>
In-Sight 7000 Series Vision System

The In-Sight 7000 series vision system represents a breakthrough in flexibility, performance and ease of integration. This powerful vision system performs fast, accurate inspections while its compact footprint easily fits into space-constrained production lines. The unique, modular design is highly field-customizable to your application requirements.

- Field-changeable lighting and optics provide users with ultimate flexibility to customize the system for their application.
- Full suite of powerful Cognex algorithms and vision tools help you solve applications easily and reliably.
- Intuitive EasyBuilder interface allows both novice and experienced users to setup and monitor vision applications.
- In-Sight spreadsheet provides ultimate control through direct access to vision tools and communication options.

www.cognex.com/InSight7000

Specifications

<table>
<thead>
<tr>
<th>Models</th>
<th>7600</th>
<th>7800</th>
<th>7801</th>
<th>7802</th>
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<td>1600 x 1200</td>
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<td>165/217 fps</td>
<td>76 fps</td>
<td>53 fps</td>
</tr>
<tr>
<td>Speed Rating</td>
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<td>High</td>
</tr>
<tr>
<td>Tools</td>
<td>Blob, Edge, Flaw Detection, Histogram, Barcode Reading, Filters, InspectEdge, OCR/OCV, Pattern, PatMax, Geometry and Calibration.</td>
<td>Patent RedLine or barcode reading only</td>
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<td></td>
</tr>
<tr>
<td>Software Interface</td>
<td>In-Sight Explorer Spreadsheet and EasyBuilder Interface</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
In-Sight 5705 Series Vision System

The In-Sight 5705 series vision system significantly expand the range of applications that can be solved with a standalone vision system. Featuring optimized vision tools such as PatMax RedLine™ for high-speed pattern matching and Gigabit Ethernet communication, the In-Sight 5705 is the fastest self-contained 5 megapixel vision system capable of reliable color inspections.

- Full library of high-performance vision tools for inspection, defect detection, guidance, alignment and measurement applications.
- Intuitive EasyBuilder software interface makes it easy to set up and deploy even the most advanced jobs.
- In-Sight spreadsheet with scripting allows advanced users to modify application settings and custom-configure vision tools.
- True color filtering, color ID and color extraction tools for reliable color inspections.

www.cognex.com/InSight5705

Specifications

<table>
<thead>
<tr>
<th>Models</th>
<th>5705</th>
<th>5705C</th>
<th>5604</th>
<th>5603</th>
<th>5600</th>
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<tr>
<td>Resolution</td>
<td>2448 x 2048</td>
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<td>1K line scan</td>
<td>1600 x 1200</td>
<td>640 x 480</td>
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<td>Frame Rate</td>
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<tr>
<td>Software Interface</td>
<td>In-Sight Explorer Spreadsheet and EasyBuilder Interface</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
In-Sight VC200 Multi Smart Camera Vision System

The In-Sight VC200 multi smart camera vision system brings the proven reliability of In-Sight vision systems to multi-camera vision applications. You can easily connect up to four In-Sight smart cameras to a controller for multi-view inspections in your manufacturing environment. For the first time, you can leverage the power of distributed computing with multiple smart cameras for high-performance applications.

- Powerful processors run In-Sight vision tools independently on each camera with no reduction in speed regardless of how many cameras are attached.
- Intuitive and self-documenting block-diagrams and In-Sight spreadsheet eases application configuration and communication of results.
- Platform-independent HMI technology enables monitoring and control from any device with a supported web browser.

www.cognex.com/InSightVC200

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>In-Sight VC200</th>
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</thead>
<tbody>
<tr>
<td>Supported Cognex Cameras</td>
<td>ISC8200, ISC8400, ISC8401, ISC8402 and ISC8405</td>
</tr>
<tr>
<td>Dimensions</td>
<td>178.8 mm (7.04 in) x 142.1 mm (5.59 in) x 75.1 mm (2.96 in)</td>
</tr>
<tr>
<td>Job/Program Memory</td>
<td>8 GB non-volatile flash memory. Unlimited storage via remote network device</td>
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<tr>
<td>Image Processing Memory</td>
<td>2 GB SDRAM</td>
</tr>
<tr>
<td>Input/Output</td>
<td>8 discrete inputs and 16 discrete outputs; Optically isolated</td>
</tr>
<tr>
<td>Camera Ports</td>
<td>4 RJ-45 dedicated Ethernet ports for connecting directly to supported In-Sight cameras, additionally supplying PoE</td>
</tr>
<tr>
<td>LAN Port</td>
<td>1 RJ-45 Ethernet port, 10/100/1000 BaseT with auto MDIX. IEEE 802.3 TCP/IP Protocol</td>
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<tr>
<td>USB Ports</td>
<td>1 USB 3.0 (5 Gbps) and 2 host USB 2.0 ports (480 Gbps) ports for connecting mouse, keyboard or storage device</td>
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<tr>
<td>SD Card Slot</td>
<td>1 SD card (USH-I or II) slot for saving images, run times files and results</td>
</tr>
<tr>
<td>Video Out Port</td>
<td>1 locking HDMI port for connecting to a display device</td>
</tr>
</tbody>
</table>
Vision sensors perform simple pass/fail applications that help ensure products and packaging manufactured on an automated production line are error-free and meet stringent quality standards. Cognex vision sensors provide highly reliable inspections thanks to powerful vision tools, integrated, powerful lighting, modularity, and an easy-to-use setup environment.

**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, simple setup and a modular design.

- Intuitive In-Sight Explorer with EasyBuilder interface allows even novice users to achieve extremely reliable pass/fail inspections in nearly any production environment.
- Powerful In-Sight vision tools for reliable part location, inspection, measurement and counting.
- Integrated, high-performance image formation system produces even, diffuse illumination, eliminating the need for costly external lighting.
- In-line and right-angle configurations mount in tight spaces and simplifies wiring and optical paths.
- Monochrome and color sensor models solve presence/absence applications, including color verification.
- Fully compatible with Cognex VisionView® PC software and VisionView 900 HMI touchscreen panel.

www.cognex.com/InSight2000

**Specifications**

<table>
<thead>
<tr>
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<td>Color</td>
<td>Monochrome</td>
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<td>640 x 480 (standard)</td>
<td>640 x 480 (2X magnification)</td>
<td>640 x 480 (standard)</td>
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<td></td>
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<td>Pattern</td>
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<td>Pattern, Pixel Count, Contrast, Brightness, Edge, Circle Find, Measurement, Counting</td>
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<tr>
<td>Connectivity</td>
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<td>1 trigger, 1 general purpose input, 4 general purpose outputs</td>
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<tr>
<td>Communications</td>
<td>Industrial M12 connectors (x-coded), power and I/O, EtherNet/IP, PROFINET, SLMP/SLMP scanner, Modbus TCP, TCP/IP, UDP, FTP, RS232</td>
<td></td>
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</tbody>
</table>
In-Sight Explorer

All In-Sight products, from vision sensors to vision systems, are configured with the powerful, yet easy to use In-Sight Explorer software. The easy-to-use interface walks you step by step through the setup process and provides the power and flexibility of the vision spreadsheet for more difficult applications.

EasyBuilder View

The EasyBuilder configuration environment guides users through a step-by-step setup process allowing both novice and experienced operators to configure vision applications quickly and easily on vision sensors and vision systems.

Spreadsheet View

In-Sight spreadsheet provides ultimate control through direct access to the vision tools and communication options for more challenging applications. Access to the spreadsheet not only provides programming flexibility to make essential adjustments, it also offers assurance that you will be able to solve any of your vision applications.

Multi Smart Camera Workflow View

The In-Sight VC200 multi smart camera combines the power and familiarity of the spreadsheet with a graphical workflow view to make multi-camera applications easy to set up for even the most challenging applications.

Connectivity and Modular Communications

Connectivity to the factory network is essential to machine vision applications as a means to share data, support decision-making and enable high-efficient integrated processes. The Cognex Connect™ communications suite supports industrial protocols, including high-speed Ethernet for easy integration into the network.

- Ethernet/IP
- PROFINET
- Modbus/TCP
- SLMP (Seamless Message Protocol)
- FTP
- OPC
- TCP/IP
- RS-232
Whether performing a single profile measurement or scanning an entire surface in 3D, Cognex has the most powerful and robust 3D vision tools. Manufacturers in all industries trust Cognex technology to deliver high accuracy surface feature measurements that go beyond the capabilities of 2D vision technology.

**In-Sight Laser Profiler**

The In-Sight laser profiler is a measurement system used to verify that a part’s dimensions meet specifications. The In-Sight laser profiler is configured using the In-Sight EasyBuilder user interface. This intuitive, easy-to-use software makes it simple for manufacturing and quality engineers to develop, deploy and support high accuracy measurements on the factory floor.

- Profile optimization technology renders the most accurate outline of your part.
- Advanced object detection technology ensures measurements are performed in the correct location and provides consistent results.
- Intuitive EasyBuilder user interface provides access to the laser profiler toolset, making it simple for first time users to extract features and construct reference points.
- Mobile, platform-independent visualization provides access to HMIs from anywhere on the network.

[www.cognex.com/InSight-laser-profile](http://www.cognex.com/InSight-laser-profile)

**Specifications**

<table>
<thead>
<tr>
<th>Models</th>
<th>DS1300</th>
<th>DS1101</th>
<th>DS1050</th>
<th>DS925B</th>
<th>DS910B</th>
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<tbody>
<tr>
<td>Resolution X (mm)</td>
<td>0.088–0.410</td>
<td>0.063–0.158</td>
<td>0.042–0.077</td>
<td>0.0183–0.0227</td>
<td>0.0073–0.0084</td>
</tr>
<tr>
<td>Resolution Z (mm)</td>
<td>0.016–0.265</td>
<td>0.010–0.052</td>
<td>0.004–0.014</td>
<td>0.002</td>
<td>0.001</td>
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<tr>
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<tr>
<td>Controller</td>
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</table>
3D Vision System

Cognex 3D vision system provides a topographical representation of the 3D features relative to any surface. The laser displacement sensors are factory calibrated to deliver results in real units of measurement with micron-level accuracy. Cognex field calibration techniques preserve accuracy despite mounting and motion errors. Multiple Cognex displacement sensors can be used in combination across wide production lines to generate single high resolution 3D images.

- Combines 3D sensors and 2D cameras with powerful vision tools including measurement, OCR, barcode reading and pattern matching tools.
- Powered by the factory-proven VisionPro® software with Cognex Designer™ development environment.
- Provides contrast independent inspection and concurrently acquires intensity data for aligned 2D and 3D inspection.
- Industrial IP65 housing with optional IP69K enclosure.

www.cognex.com/3D-vision-system

Specifications

<table>
<thead>
<tr>
<th>Models</th>
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<th>DS1101</th>
<th>DS1050</th>
<th>DS925B</th>
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<tbody>
<tr>
<td>Resolution X (mm)</td>
<td>0.088–0.410</td>
<td>0.063–0.158</td>
<td>0.042–0.077</td>
<td>0.0183–0.0227</td>
<td>0.0073–0.0084</td>
</tr>
<tr>
<td>Resolution Z (mm)</td>
<td>0.016–0.265</td>
<td>0.010–0.052</td>
<td>0.004–0.014</td>
<td>0.002</td>
<td>0.001</td>
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<tr>
<td>Linearity</td>
<td>±0.16% FS</td>
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<tr>
<td>Communications</td>
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<tr>
<td>Controller</td>
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</table>
VisionPro Machine Vision Software

VisionPro is the leading PC-based vision software that empowers users to quickly set up and deploy even the most challenging 2D and 3D vision applications—no matter which camera or frame grabber they use. The Cognex Designer development environment provides access to a robust library of vision tools and the graphical, drag-and-drop interface simplifies complex applications into manageable tasks. Proven in more than 700,000 installations worldwide, the VisionPro tool library performs a wide range of functions from geometric object location and inspection to identification and measurement.

- Powerful vision tools (including PatMax, LineMax™, OCRMax™ and IDMax®) perform accurate and repeatable inspections.
- With an extensive .NET class library and user controls, users can fully integrate VisionPro software into automation equipment.
- Cognex Designer and VisionPro QuickBuild™ let you configure acquisition, select and optimize vision tools and make pass/fail decision without programming.
- Fully compatible with latest Windows® environments and supports Microsoft 64-bit operating systems to meet the demands of larger cameras and greater pixel depth.
- Supports a broad range of Cognex Industrial Cameras and most 3rd party cameras through the Cognex Acquisition Alliance Program.

www.cognex.com/VisionPro

Broad Camera Support

Licensing Options

USB Dongle
8704E (GigE)
CIO-CC24
(Real-Time I/O)
VC5
PatMax RedLine — Reliable part location

Finding a part in an image is an essential first step in most machine vision applications and is often the determining factor in the success of the application. Pattern matching is the most common method for finding a part in an image but can prove difficult in applications where the appearance of part features vary from one image to the next.

Cognex patented PatMax RedLine technology quickly and reliably locates parts regardless of size, position and orientation, surface reflectivity and shadows. PatMax RedLine is the newest addition to Cognex’s suite of pattern matching technology based on the original PatMax algorithm, the foundation for other companion tools, including PatQuick®, PatMax AutoTune and Multi-model PatMax.

www.cognex.com/PatMax

OCRMax — Highest character read rates

OCRMax technology delivers the power to achieve the highest character read rates while keeping misreads to a minimum. This powerful algorithm prevents misreads, handles process variations and provides easy font management. It is fast at decoding, easy to set up with a unique auto-tune feature and simple to use across all platforms with minimal training for the user.

www.cognex.com/OCRMax

SurfaceFX — Accurate feature inspection

SurfaceFX™ feature extraction technology uses lighting and software algorithms to create high contrast images that enhances 3 dimensional features on a part. It removes noise and clutter from the surface background and isolates features and defects that are recessed or embossed on parts highlighting surface defects such as chips, dents, wrinkles, punctures and tears, as well as identifying stamped text and codes. Once a clear image is attained, Cognex other In-Sight vision tools such as OCRMax, PatMax RedLine, Blob and InspectEdge can perform their inspections.

www.cognex.com/SurfaceFX
Blob tools are used to detect features that have similar shades of grey scale. Blob is very useful for quantifying defect sizes or for locating features that do not have a repeatable shape. Blob can be used for monochrome and color images to quantify the amount of a particular color present.

Edge tools detect dark and light transitions on a part. Edge tool results can be used to measure distances and can also be used to inspect by counting the number of edges found. Edge can also be used to detect and measure circles and arcs. The InspectEdge tool tracks an edge of a part to inspect for defects.

Color tools are used to identify and inspect objects based on color data. Color tools also measure by evaluating the amount of color pixels present or a color or group of colors. Advanced color vision technology maintains accuracy even with lighting variations that can cause problems for traditional color vision tools.

The OCV/OCR tool segments, extracts and trains fonts for optical character recognition (OCR) and optical character verification (OCV) of characters in an image. The font trainable tool accurately reads low-contrast or unevenly-spaced characters on confusing backgrounds.
Flaw Detection

The Flaw Detection tools, including Flex Flaw and Surface Flaw, are used to inspect contours and the surface area of parts. These advanced technologies are able to adapt to variations in lighting and in part appearance.

Image Filtering

Advanced image filtering is used to highlight features or remove features of parts before doing additional processing with other vision tools.

Histogram

Histograms are used to inspect or monitor features of parts based on brightness.

ID

1DMax and 2DMax+™ barcode reading algorithms achieve the highest read rates for 1-D and 2-D barcodes, including decoding challenging 2-D direct part mark (DPM) codes.

Flaw Detection

The Flaw Detection tools, including Flex Flaw and Surface Flaw, are used to inspect contours and the surface area of parts. These advanced technologies are able to adapt to variations in lighting and in part appearance.

Pattern Matching

Locating a part accurately is the first step in most vision applications. Cognex's industry leading pattern matching technologies, such as PatMax RedLine, provide unmatched accuracy and robustness, even with rotation, scale and lighting variations.

Geometry

Geometry tools are used to measure critical dimensions of a part with point-and-click simplicity. Angles, arcs, diameters and point-to-line distances use real world calibration to provide accurate and repeatable results.
BUILD YOUR VISION

2D VISION SYSTEMS

Cognex machine vision systems are unmatched in their ability to inspect, identify and guide parts. They are easy to deploy and provide reliable, repeatable performance for the most challenging applications.

- Industrial grade with a library of advanced vision tools
- High speed image acquisition and processing
- Exceptional application and integration flexibility

www.cognex.com/machine-vision

3D LASER PROFILERS

Cognex In-Sight laser profilers and 3D vision systems provide ultimate ease of use, power and flexibility to achieve reliable and accurate measurement results for the most challenging 3D applications.

- Factory calibrated sensors deliver fast scan rates
- Industry-leading vision software with powerful 2D and 3D tool sets
- Compact, IP65-rated design withstands harsh factory environments

www.cognex.com/3D-laser-profilers

IMAGE-BASED BARCODE READERS

Cognex industrial barcode readers and mobile terminals with patented algorithms provide the highest read rates for 1-D, 2-D and DPM codes regardless of the barcode symbology, size, quality, printing method or surface.

- Reduce costs
- Increase throughput
- Control traceability

www.cognex.com/BarcodeReaders

Companies around the world rely on Cognex vision and barcode reading to optimize quality, drive down costs and control traceability.

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