Vision Made Simple

The power of AI without the complexity

In-Sight 2800 Series

In-Sight 2800 Series

Automate error detection in minutes— no experience needed

The In-Sight® 2800 series vision system combines artificial intelligence (AI) technology with traditional rule-based vision tools to solve a wide range of inspection applications. From presence/absence detection to sortation and character reading, In-Sight 2800 provides an easy to deploy solution for error-proofing tasks. Designed for factory automation, In-Sight 2800 enables manufacturers of all size to:
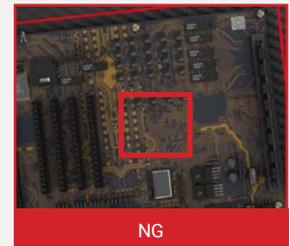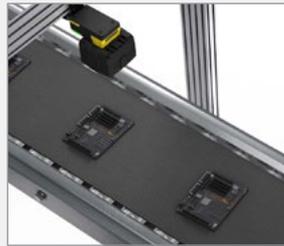
- Increase product quality
- Maximize operational efficiency
- Streamline integration

Increase product quality

Catch subtle defects, classify parts with variation, and decipher complex text with highly accurate, AI-based error detection and character reading.
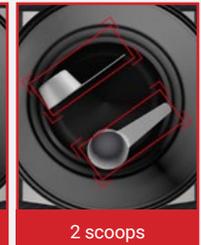
AI and rule-based vision tools

LEARN MORE
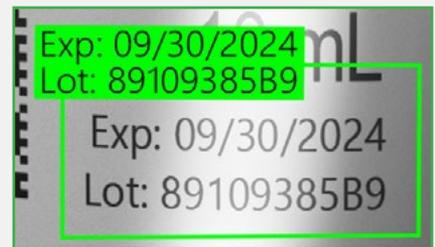**PAGE 4**

Powerful classification and OCR functionality

LEARN MORE
PAGE 4

OK/NG

OK

NG

Categorize types of defects

1 scoop

0 scoops

2 scoops

OCR
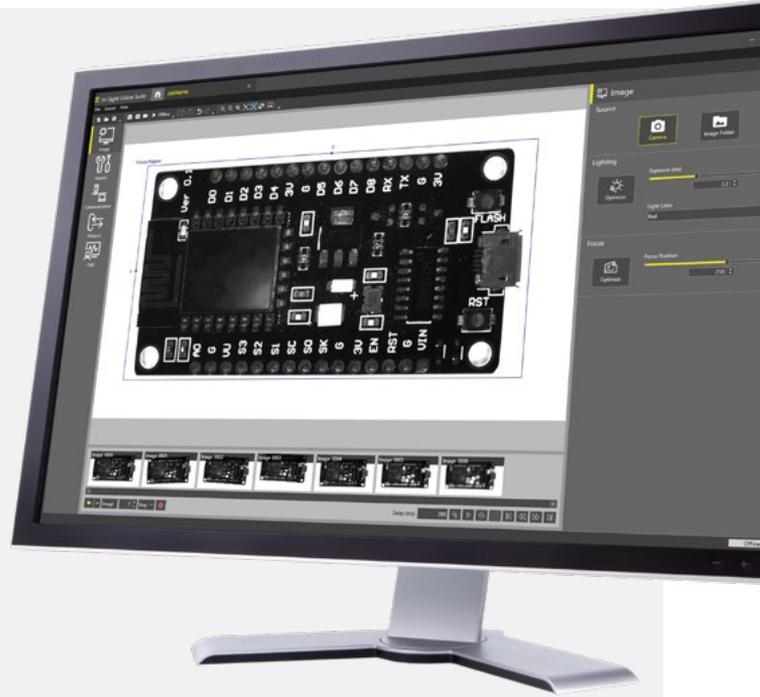
Exp: 09/30/2024
Lot: 89109385B9

Exp: 09/30/2024
Lot: 89109385B9

Maximize operational efficiency

Leverage your existing workforce and keep your lines running with fast, intuitive job setup—no vision or AI expertise required.

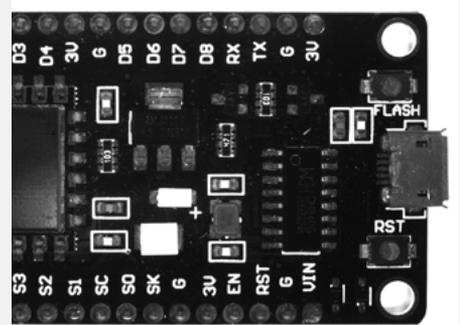## Intuitive development environment

LEARN MORE
PAGE 9

Step-by-step guidance

Setup Image → Inspect Part → Run HMI

2-click image setup

1 Optimize Exposure

2 Optimize Focus
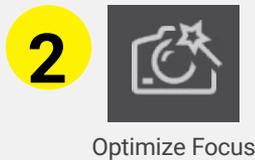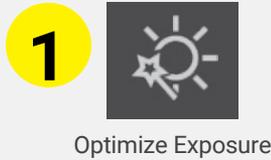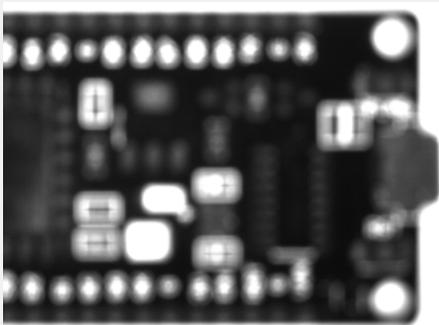
Streamline integration

Modular solutions for integrated lights and lenses takes the guesswork out of image optimization. Identifying the correct combination of accessories for your application is only a few button clicks away.

Integrated multi-color lighting

LEARN MORE
PAGE 12

Compact, modular design

LEARN MORE
PAGE 14

Comprehensive vision toolset addresses tasks of varying complexity

Integrating AI and rule-based tools in a single vision system, the In-Sight 2800 series solves a variety of error-proofing applications. Use the tools individually for simple jobs or chain them together to solve more complex logic sequences.

AI tools

The In-Sight 2800 is embedded with powerful edge learning tools that leverage AI technology to process images on device, or "at the edge" of where the data originates, delivering accurate results in real time.

ViDi EL Classify

Go beyond the standard OK/NG output with ViDi™ EL Classify. The tool identifies and sorts parts based on multiple features or characteristics. This enables users to classify defects into different categories and correctly identify parts with variation, allowing them to automate a wider range of tasks.

Gear 1 | Gear 2

Gear 3 | Gear 4

Training

ViDi EL Classify can be trained in minutes, using as few as five to ten images per class.

Gear 1 | Gear 2 | Gear 3 | Gear 2 | Gear 4

Confidence score

Get real-time, visual feedback on the accuracy of your results. The confidence score confirms whether the AI model correctly predicted the application output, leading to less manual intervention and more reliable inspections.

89%
- Gear 1
- Gear 2
- Gear 3
- Gear 4

97%
- Gear 1
- Gear 2
- **Gear 3**
- Gear 4
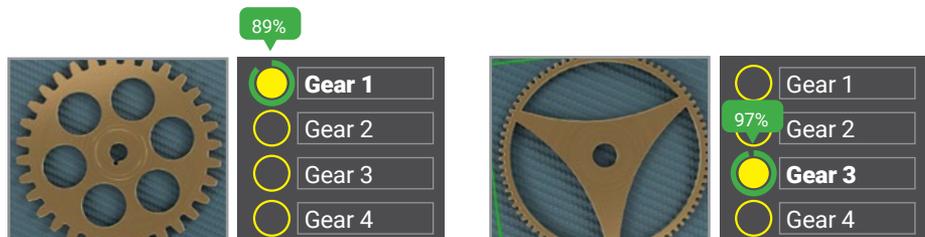
ViDi EL Read

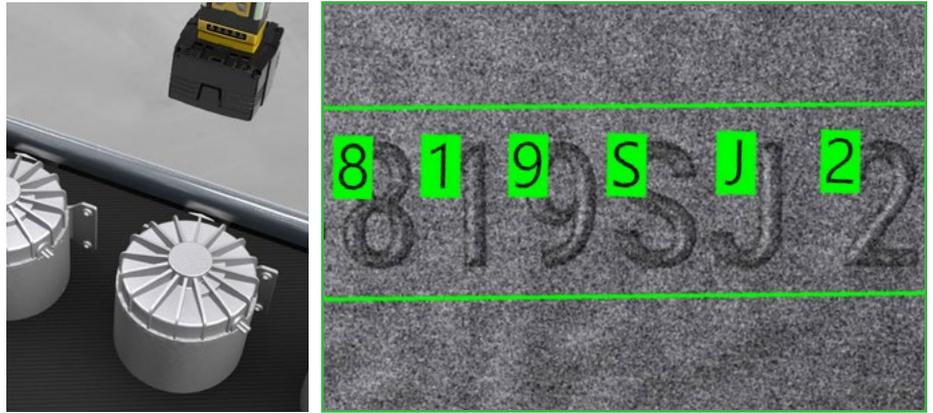Read characters on reflective, low-contrast, and non-flat surfaces with ease. The ViDi EL Read tool deciphers a range of text, including multi-line text, using advanced optical character recognition (OCR). With minimal training required, the tool simplifies job setup and delivers fast, accurate character reading.

Training

Using a few example images of the relevant characters, ViDi EL Read can be setup and deployed in minutes.
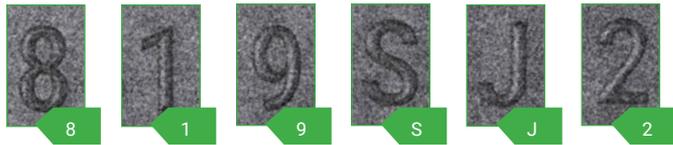
Confidence score

Assess the accuracy of your results with the confidence score displayed below each of the trained characters.

94%
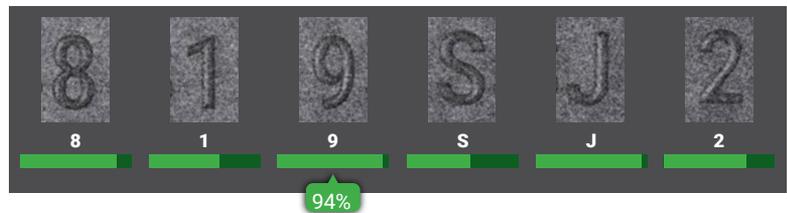
Rule-based vision tools

The In-Sight 2800 is also equipped with an extensive library of industry-proven traditional vision tools and algorithms including: Measure Distance, Pixel Count, Count Patterns, Math and Logic Tools, and much more.

Multiple regions of interest functionality

Set up multiple regions of interest (ROIs) to inspect different sections of your image with a single trigger.
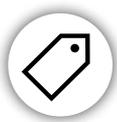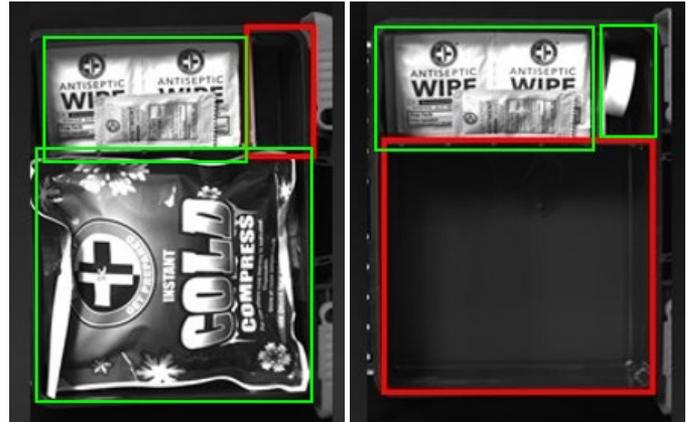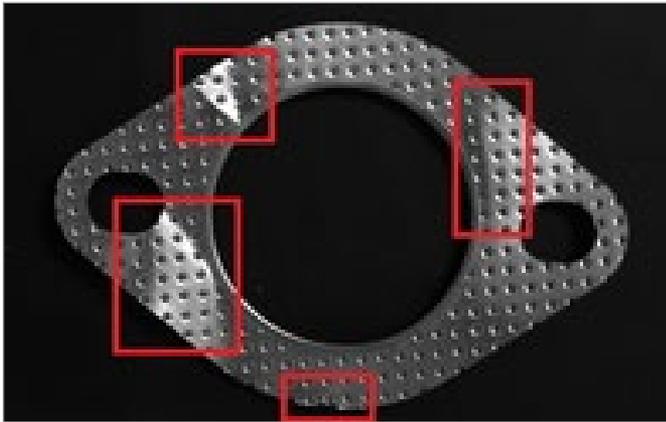
Classification application examples

Inspect cap seating

OK

NG
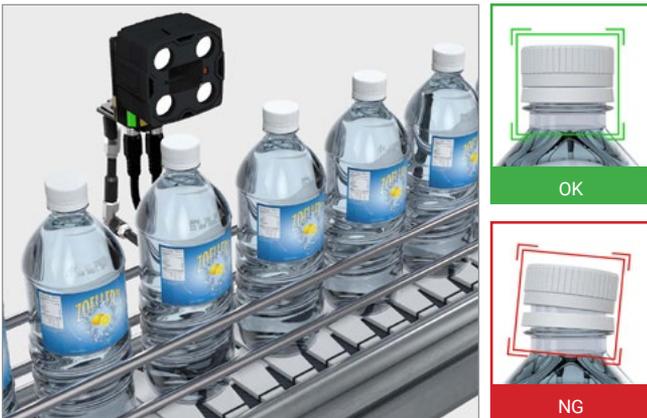
Detect presence/absence of serving scoops

1 scoop

1 scoop

2 scoops

0 scoops

Check assembly of packaged products

OK

NG
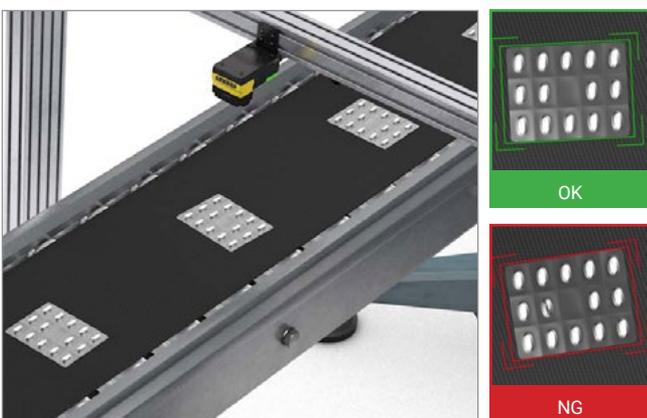
Inspect PCB components

OK

NG
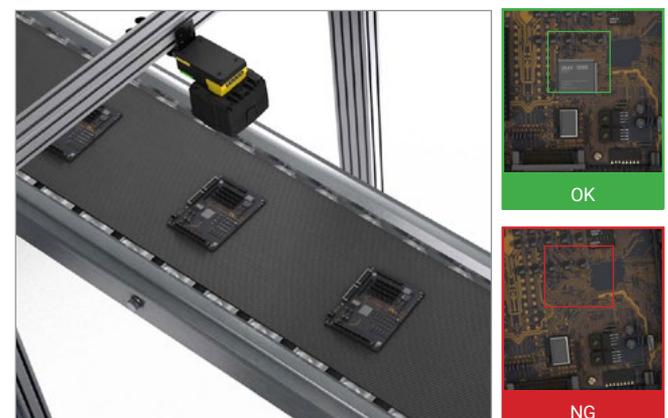
Verify proper insertion of components

OK

NG
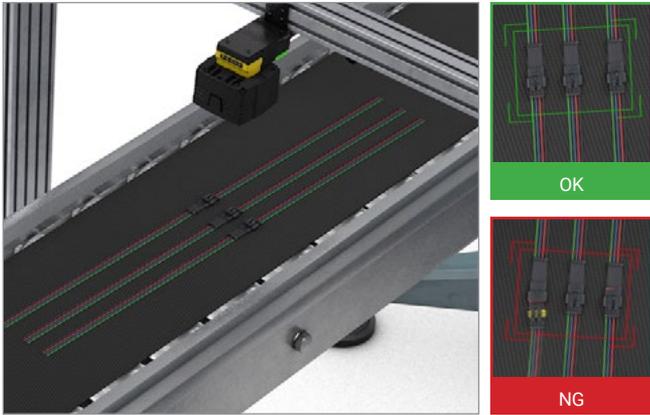
Detect and classify defects on product labels

OK

Torn

Skewed

Detect presence/absence of sealing caps

OK

NG
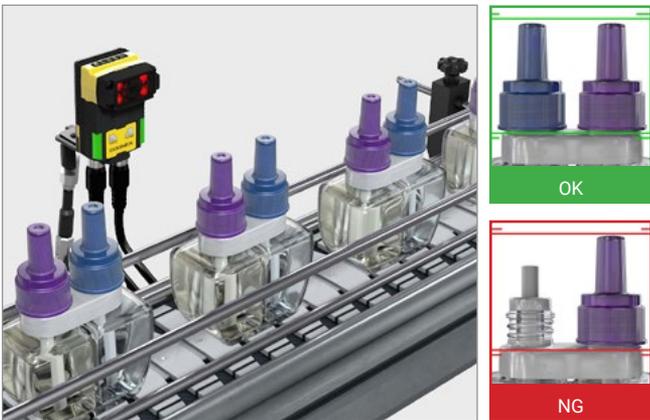
Inspect for mechanical defects

OK

NG
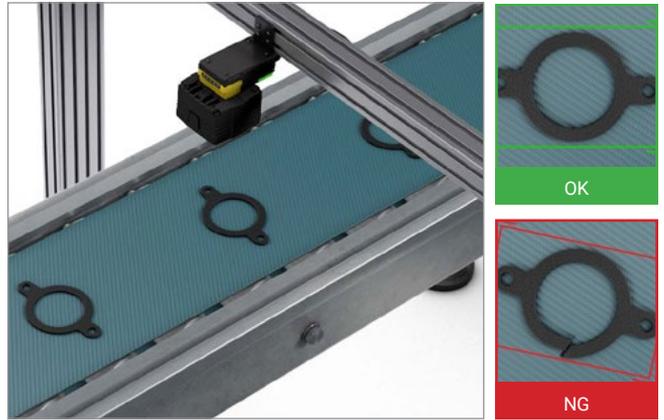
Classify scents or flavoring on packaging

Almond

Lavender

Lemon

Mint
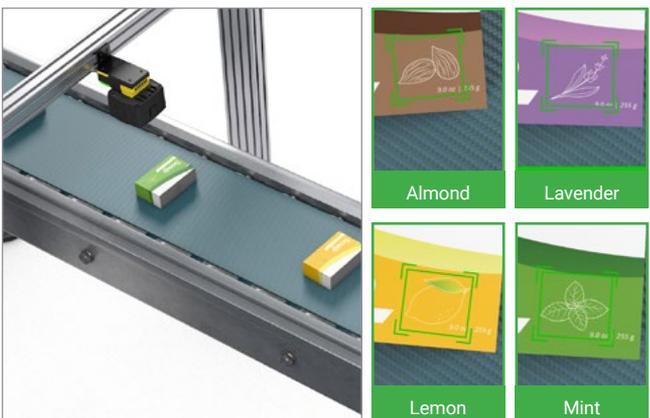
Check for missing components in final assembly

OK

NG
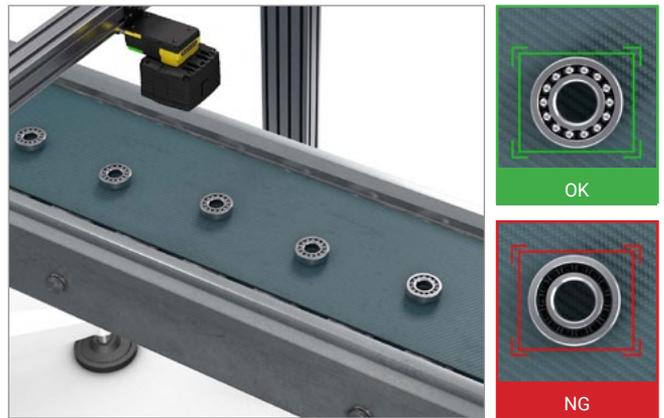
📖 OCR application examples

Read text on curved surfaces

Read text on printed labels

Read dates and lot codes on reflective surfaces

Decipher characters against low-contrast backgrounds
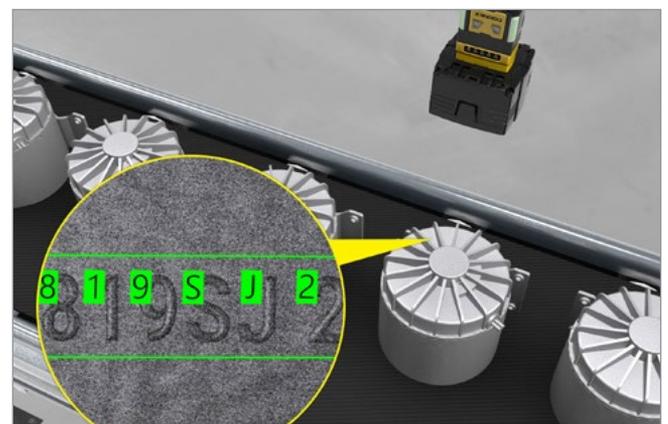
Read multiple lines of text at the same time

Common software platform offers flexible development options

In-Sight Vision Suite software is common across all In-Sight products and includes two programming environments — EasyBuilder® and spreadsheet — which allows you to seamlessly scale your solution as your business needs evolve.

EasyBuilder development environment simplifies setup and delivers rapid turnaround

With its point-and-click programming, the EasyBuilder interface within In-Sight Vision Suite is ideal for developing jobs, from simple to complex. The intuitive process guides developers step-by-step through setup—from image capture to the final result and beyond—allowing both new and experienced users to configure vision applications.

Easy **step-by-step** application setup

Image-centric **point-and-click** functionality allows users to quickly set up tools

Capture images live or upload existing images
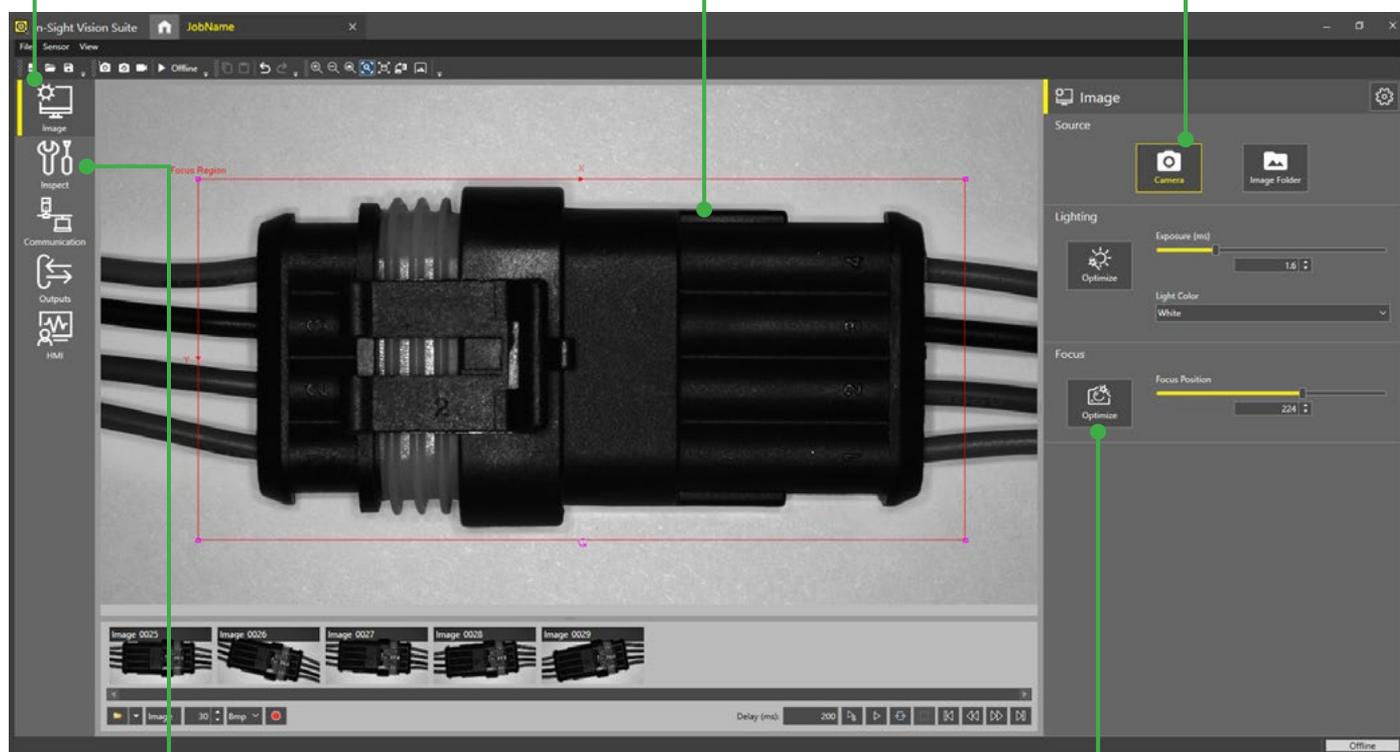
Comprehensive set of traditional rule-based vision tools and **innovative edge learning tools**

Fast, **2-click** image formation

1 Optimize Exposure

2 Optimize Focus

Spreadsheet guides users through advanced applications*

The In-Sight spreadsheet interface allows you to quickly set up and run jobs without the need for programming. This robust development environment provides you with the flexibility to make critical adjustments to job parameters, so you can adapt your applications as your requirements change.

Powerful **spreadsheet** interface allows users to solve complex applications

Easily review and recall files with image playback

Full I/O and communications function set streamlines factory integration

Full suite of AI- and rule-based **vision tools**

*Spreadsheet only available on In-Sight 2802 models.

Web-based HMI offers real-time application testing and optimization

The In-Sight 2800 series provides access to a web-based human-machine interface (HMI) that enables runtime visualization. From the HMI, users can view inspection results and modify setup parameters to optimize their application.

EasyView displays tags from jobs in a simplified format
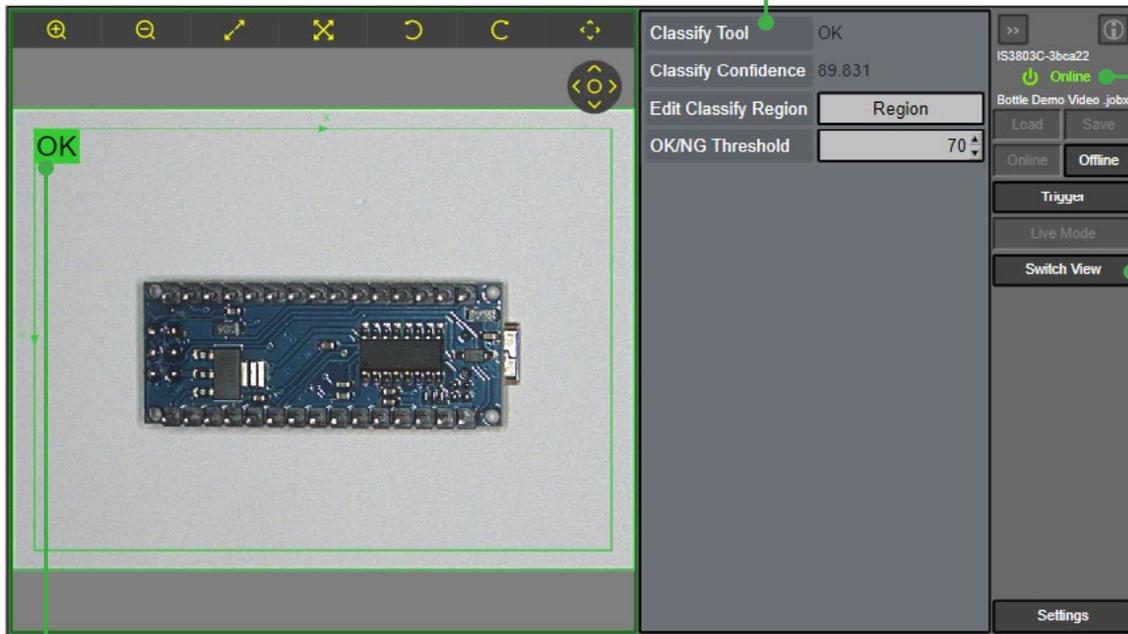
Online/Offline status indicator

Control panel allows users to manage the device through the web HMI

CustomView shows advanced settings from the spreadsheet*

Overlay graphics clearly display application output
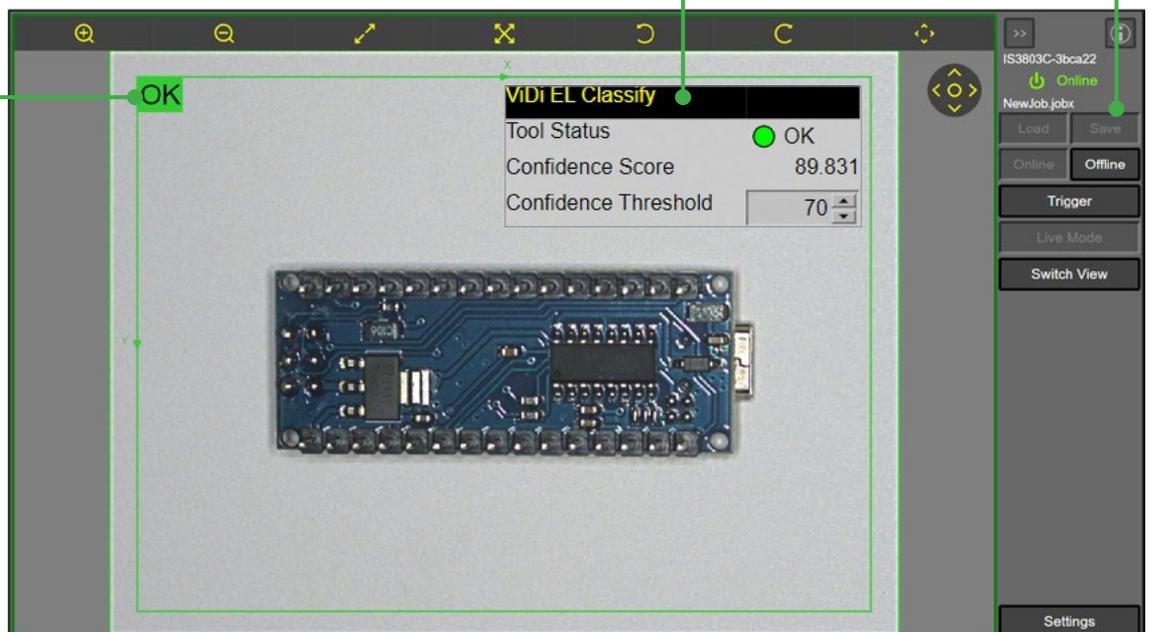
*CustomView only available on In-Sight 2802 models while using the spreadsheet interface.

Full-featured vision system solves broad range of applications

The In-Sight 2800 is engineered with the entire suite of powerful Cognex vision tools and convenient features to automate applications easily and reliably.

SVGA, 1.6 MP, and 2 MP sensor options offer greater detail in smaller parts and larger field of view coverage

Compact form factor with **straight or right-angle configuration**

Field-interchangeable optical accessories increase flexibility to solve variable applications

Multi-core processor enables fast acquisition

Indicator lights for operator feedback

Gigabit Ethernet delivers fast communication speeds and image offload

Powered by 24V

Powerful and flexible integrated lighting

Multi-color (RGBW) lighting option allows you to optimize image contrast for the application, regardless of operating conditions. Simply click a button in In-Sight Vision Suite to change the light color.
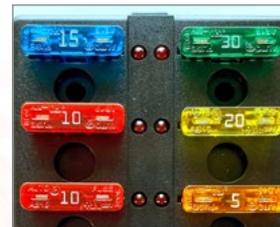
Actual part
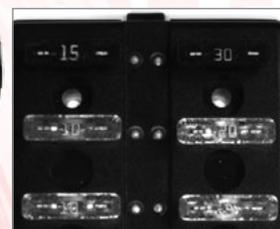
Red light: Numbers are unclear

Blue light: Numbers are clear

Powerful imaging technology delivers improved inspection accuracy

High Dynamic Range (HDR) Technology uses advanced image sensor technology that is 16X more detailed than conventional sensors. This drastically increases image quality and contrast, resulting in more accurate inspections and detection of even the most subtle defects.

Part inspection

Without HDR: Inset features are unclear.
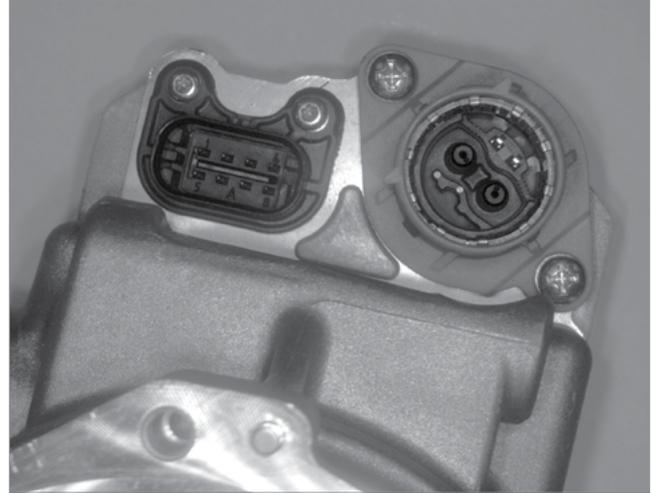
With HDR: All features are visible.

Greater depth-of-field

HDR reduces over- and under-exposure, providing greater depth-of-field than conventional imaging sensors.
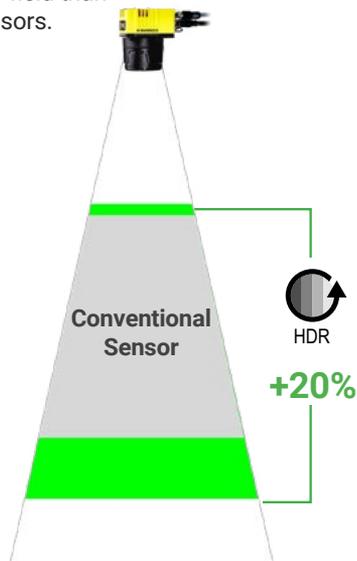
Faster line speeds

HDR reduces exposure times, enabling you to accommodate faster line speeds.
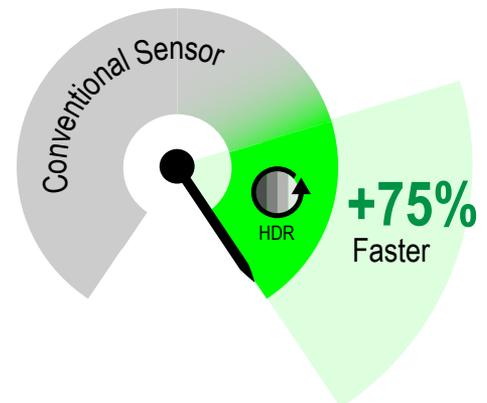
Modular, scalable architecture for current and future needs

The In-Sight 2800 series offers a wide variety of accessories and field-changeable components. This flexibility enables manufacturers to quickly adapt to new parts and keep up with changing demands, such as part changes, faster line speeds, and higher quality standards.

In-Sight 2800 Series with Multi Torch

Base unit

Adapter plates

High Speed Liquid Lens (HSLL) allows for fast image setup and focusing on-the-fly

Lens options

Internal lighting

Multi Torch light includes Red, Green, Blue, and White colors to illuminate a wide variety of parts

Field upgradeable **bandpass filters***

Filter options

Cover options

Dome, clear, diffused, and polarized front cover options
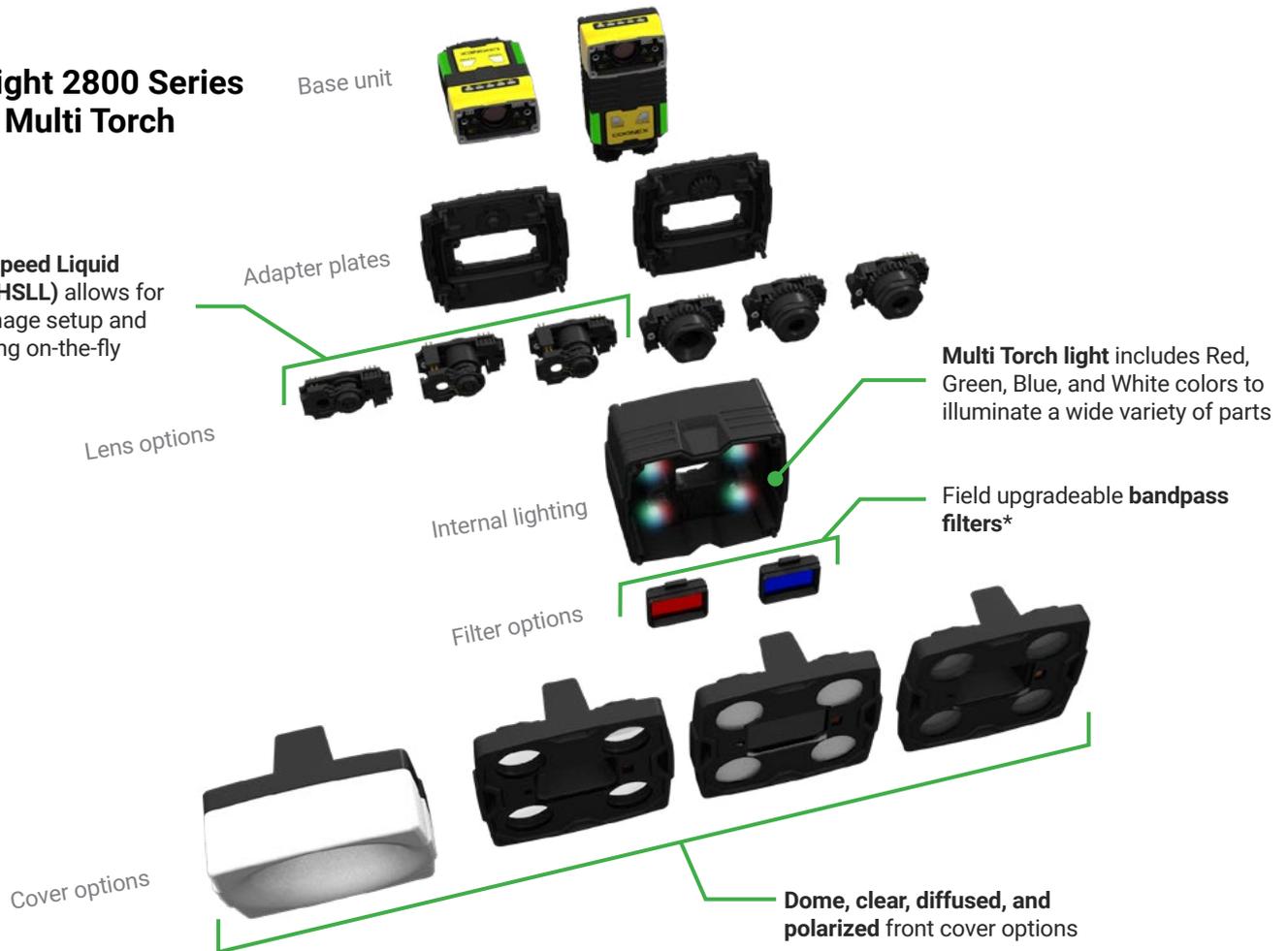
In-Sight 2800 Series with Mini Lights

Base unit

High Speed Liquid Lens (HSLL) allows for fast image setup and focusing on-the-fly

Lens options

Field upgradeable **bandpass filters***

Internal lighting options

Filter options

Cover options

Clear or polarized front cover options available
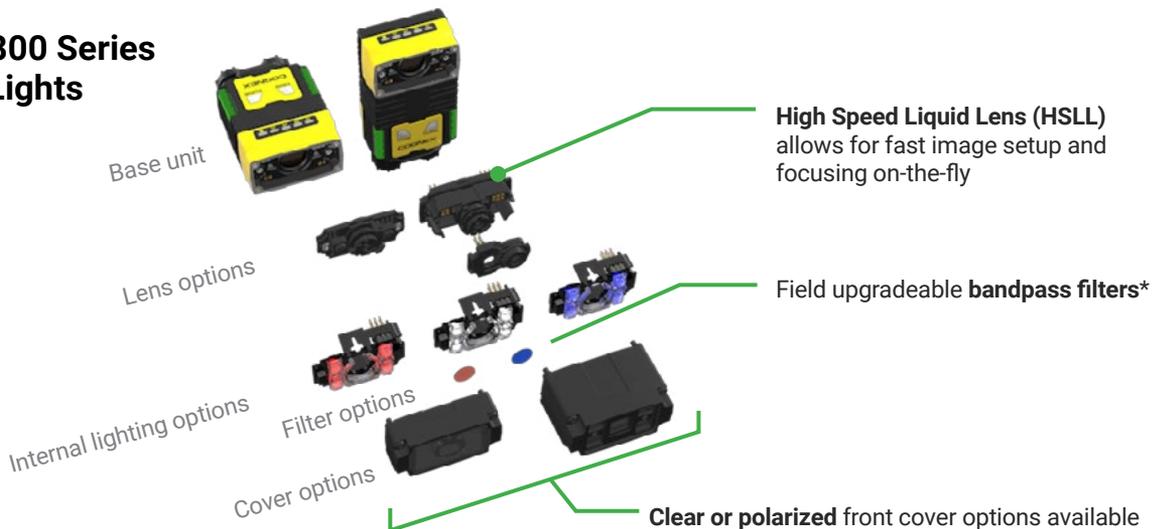
*Sold separately

In-Sight 2800 Series Specifications

	In-Sight 2800	In-Sight 2801	In-Sight 2802
Image Sensor	1 /2.8" CMOS monochrome and color		
Image Sensor Properties	6.17 mm diagonal, 2.8 µm square pixels		
Image Resolution Options	SVGA[1] (720x540)	1.6 MP (1440x1080)	2 MP (1920x1080)
Electronic Shutter Speed	Min. exposure: 29 µs Max. exposure: Up to 10 ms (internal illumination) / Up to 200 ms (external illumination)		
Acquisition	Up to 45 Hz		
Lens Options	Multi Torch: 8 mm, 12 mm, 16 mm (High Speed Liquid Lens or manual focus lens) Mini: 6.2 mm or 16 mm High Speed Liquid Lens		Multi Torch: 12 mm, 16 mm (High Speed Liquid Lens or manual focus lens)
Discrete Inputs	2 opto-isolated		
Discrete Outputs	2 opto-isolated		
Other I/O Points	2 user configurable as inputs or outputs		
Status Outputs	5 status LEDs, audible beeper		
Lighting	Multi Torch: High-Powered Multi-Color 4 LED ring light (red, green, blue, white) Mini: 4 LED small form factor light for 6.2mm lens (red, blue, white, IR options) Mini HPIL: 4 LED small form factor high-powered light for 16 mm lens (red, white options) HPIA: Polarized wide-angle white light for 6.2 and 16 mm lens		Multi Torch: High-Powered Multi-Color 4 LED ring light (red, green, blue, white)
Communications	Ethernet interface		
Protocols	TCP/IP, PROFINET, EtherNet/IP™, SLMP, OPC/UA, FTP		
Power	24V +/- 10%		
Power Consumption	≤7.5W		
Materials	ABS, acrylic, aluminum alloy, NBR, PC, PET, PMMA, silicone, silicone rubber, stainless steel, TVP, zinc alloy		
Weight	6.2 mm: 141 g; 16 mm: 169 g; Multi Torch: 290 g; Right angle configuration adds 50 g		
Operating Temperature	0–40 °C (32–104 °F)		
Storage Temperature	-10–60 °C (14–140 °F)		
Operating and Storage Humidity	<95% non-condensing		
Protection	IP67		
RoHS Certified	Yes		
Approvals	EU CE, US FCC, TUV CB NRTL IEC 61010		
Software	**In-Sight Vision Suite**		
In-Sight EasyBuilder access	✓	✓	✓
In-Sight spreadsheet access			✓

1 SVGA options are monochrome only.

Field of view diagrams

In-Sight 2802 with Multi Torch

Working distances

Units: mm (in)

Minimum
50 (1.97)

Midpoint
300 (11.8)

Maximum
500 (19.69)

12 mm lens

22.4 (0.88) — 12.6 (0.5)

134.4 (5.29) — 75.6 (2.98)

224 (6.61) — 126 (4.96)

16 mm lens

16.8 (0.66) — 9.45 (0.37)

100.8 (3.97) — 56.7 (2.23)

168 (6.61) — 94.5 (3.72)
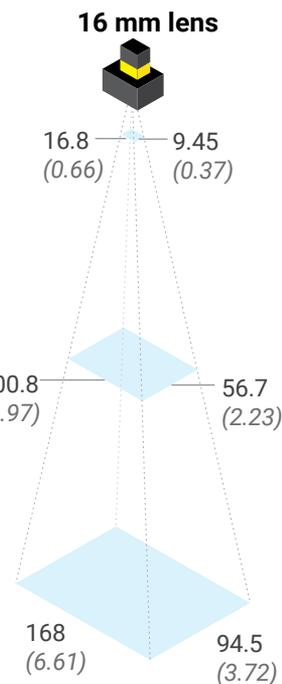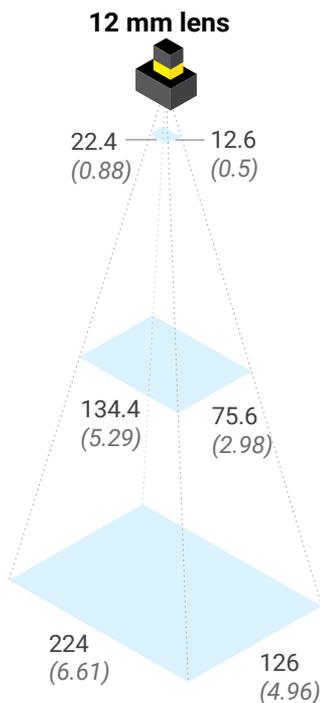
In-Sight 2800/2801 with Multi Torch

Working distances

Units: mm (in)

Minimum
50 (1.97)

Midpoint
300 (11.8)

Maximum
500 (19.69)

8 mm lens

25.2 (1) — 18.9 (0.74)

151.2 (5.95) — 113.4 (4.46)

252 (9.92) — 189 (7.44)

12 mm lens

16.8 (0.66) — 12.6 (0.5)

100.8 (3.97) — 75.6 (2.98)

168 (6.61) — 126 (4.96)

16 mm lens

12.6 (0.5) — 9.45 (0.37)

75.6 (2.98) — 56.7 (2.23)

126 (4.96) — 94.5 (3.72)
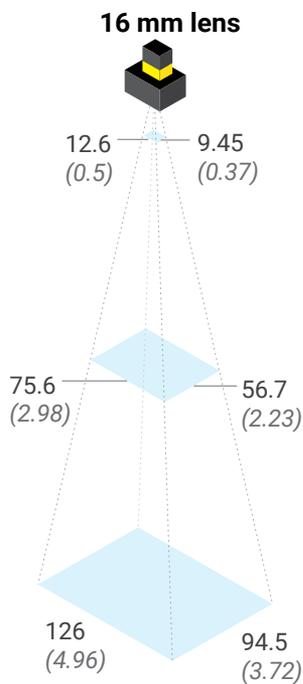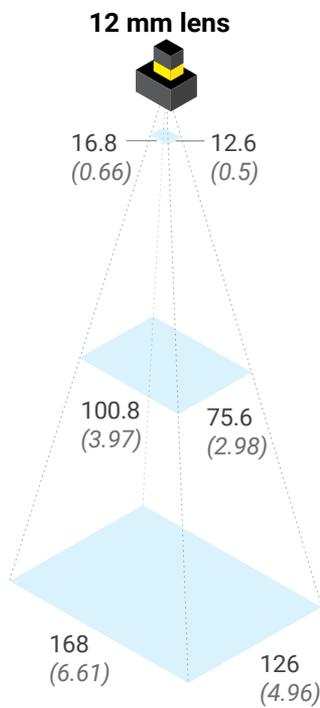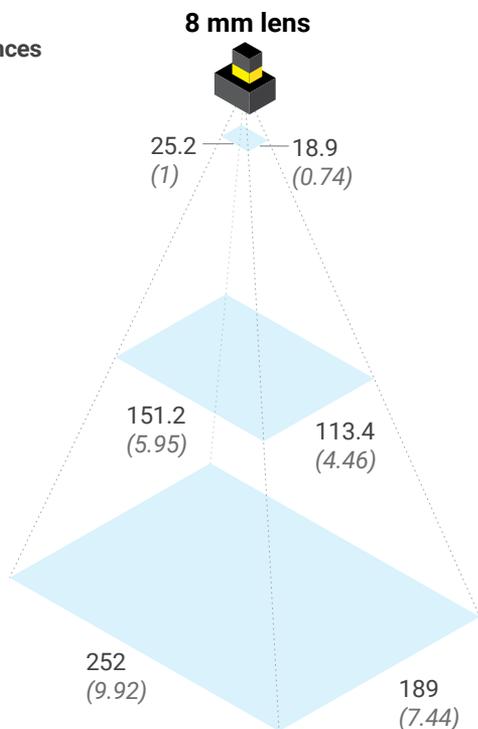
Focus distances

Minimum	Maximum
50 mm (1.97)	2000 mm* (78.74)

* For applications with working distances over 500 mm, the image may remain in focus, but light uniformity and intensity will be significantly reduced. External lighting is recommended for these scenarios.

In-Sight 2800/2801 Mini

6.2 mm lens

Working distances

Units: mm (in)

Minimum

50 (1.97)

32.5 (1.28)   24.4 (0.96)

Midpoint

300 (11.8)

195.1 (7.68)   146.32 (5.76)

Maximum

500 (19.69)

325 (12.8)   243.8 (9.6)

Focus distances

Minimum	**Maximum**
50 mm (1.97)	2000 mm* (78.74)
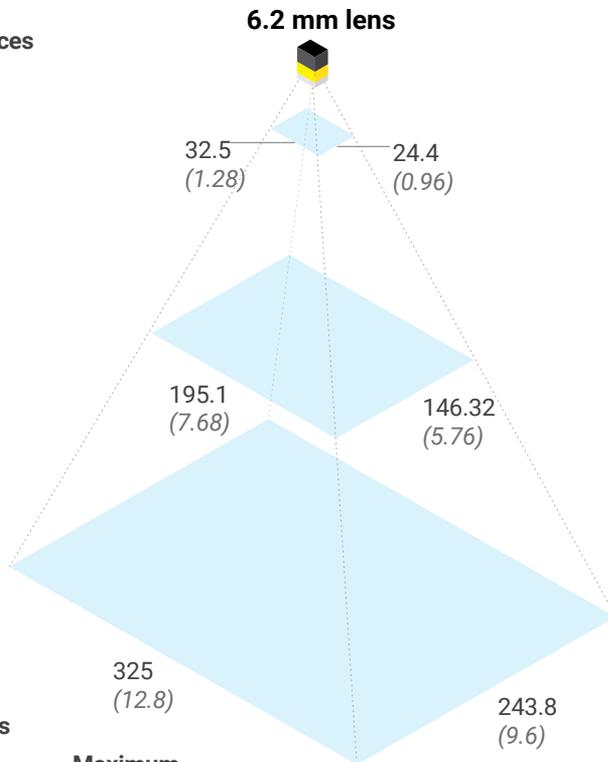
HPIL and 16 mm lens

Minimum

100 (3.94)

25.2 (1)   18.9 (0.74)

Midpoint

300 (11.8)

75.6 (2.98)   56.7 (2.23)

Maximum

500 (19.69)

126 (4.96)   94.5 (3.72)
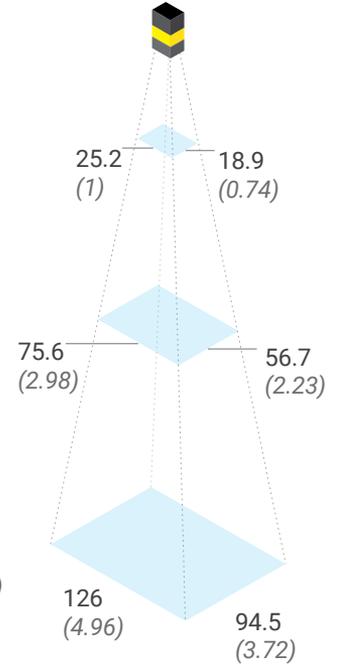
In-Sight 2800 with HPIA

6.2 mm lens

Working distances

Units: mm (in)

500 (19.68)

325 (12.79)   243 (9.56)

1000 (39.37)

650 (25.59)   487 (19.17)

2000 (78.74)

1300 (51.18)   975 (38.38)

3000 (118.11)

1950 (76.77)   1463 (57.59)

Focus distances

Minimum	**Maximum**
50 mm (1.97)	3000 mm* (118.11)

16 mm lens

500 (19.68)

126 (4.96)   94.5 (3.74)

1000 (39.37)

252 (9.92)   189 (7.44)

2000 (78.74)

504 (19.84)   378 (14.88)

3000 (118.11)

756 (29.76)   567 (22.32)
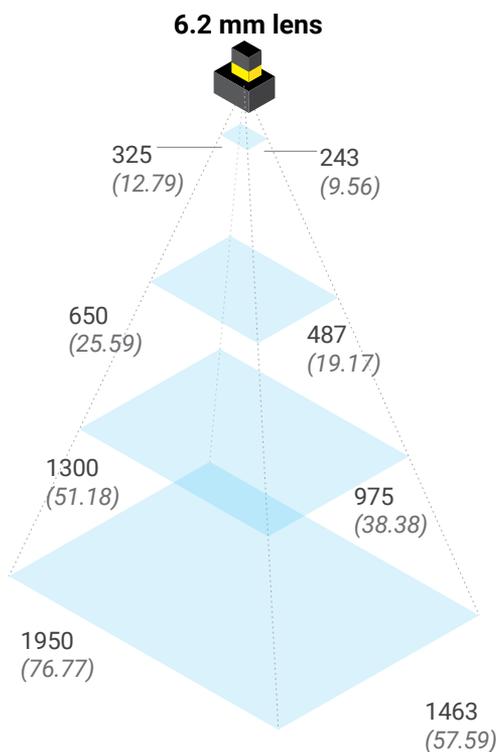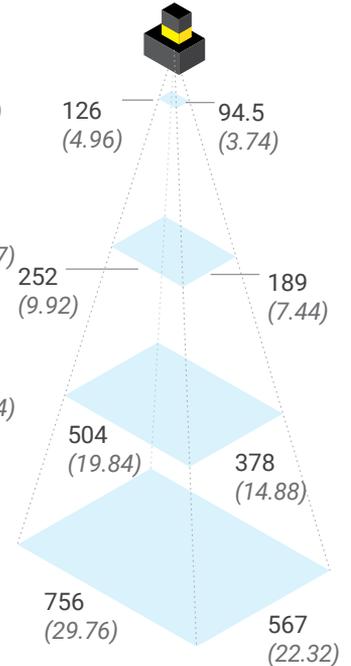
* For applications with working distances of 2000 mm or more, replace the polarized lens cover with the clear lens cover provided with the In-Sight 2800 HPIA model for optimal performance.

Product IDs and Descriptions

In-Sight 2802

	Product ID	Resolution	Configuration	Toolset	Light	Lens	Cover
	IS2802M-24520-SA	2MP	Mono Straight	EB/SS[1], All ViDi EL	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802M-24620-SA	2MP	Mono Straight	EB/SS, All ViDi EL	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802C-24520-SA	2MP	Color Straight	EB/SS, All ViDi EL	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802C-24620-SA	2MP	Color Straight	EB/SS, All ViDi EL	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802M-24521-SA	2MP	Mono Angled	EB/SS, All ViDi EL	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802M-24621-SA	2MP	Mono Angled	EB/SS, All ViDi EL	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802C-24521-SA	2MP	Color Angled	EB/SS, All ViDi EL	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802C-24621-SA	2MP	Color Angled	EB/SS, All ViDi EL	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802M-24520-SC	2MP	Mono Straight	EB/SS, EL Classify	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802M-24620-SC	2MP	Mono Straight	EB/SS, EL Classify	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802C-24520-SC	2MP	Color Straight	EB/SS, EL Classify	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802C-24620-SC	2MP	Color Straight	EB/SS, EL Classify	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802M-24521-SC	2MP	Mono Angled	EB/SS, EL Classify	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802M-24621-SC	2MP	Mono Angled	EB/SS, EL Classify	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802C-24521-SC	2MP	Color Angled	EB/SS, EL Classify	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802C-24621-SC	2MP	Color Angled	EB/SS, EL Classify	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802M-24520-SO	2MP	Mono Straight	EB/SS, EL Read	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802M-24620-SO	2MP	Mono Straight	EB/SS, EL Read	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802C-24520-SO	2MP	Color Straight	EB/SS, EL Read	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802C-24620-SO	2MP	Color Straight	EB/SS, EL Read	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802M-24521-SO	2MP	Mono Angled	EB/SS, EL Read	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802M-24621-SO	2MP	Mono Angled	EB/SS, EL Read	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802C-24521-SO	2MP	Color Angled	EB/SS, EL Read	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802C-24621-SO	2MP	Color Angled	EB/SS, EL Read	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802M-24520-SR	2MP	Mono Straight	EB/SS, Rule-based	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802M-24620-SR	2MP	Mono Straight	EB/SS, Rule-based	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802C-24520-SR	2MP	Color Straight	EB/SS, Rule-based	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802C-24620-SR	2MP	Color Straight	EB/SS, Rule-based	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802M-24521-SR	2MP	Mono Angled	EB/SS, Rule-based	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802M-24621-SR	2MP	Mono Angled	EB/SS, Rule-based	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802C-24521-SR	2MP	Color Angled	EB/SS, Rule-based	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2802C-24621-SR	2MP	Color Angled	EB/SS, Rule-based	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2802M-50000-SA	2MP	Mono Straight	EB/SS, All ViDi EL	C-Mount	N/A	N/A
	IS2802C-50000-SA	2MP	Color Straight	EB/SS, All ViDi EL	C-Mount	N/A	N/A
	IS2802M-50001-SA	2MP	Mono Angled	EB/SS, All ViDi EL	C-Mount	N/A	N/A
	IS2802C-50001-SA	2MP	Color Angled	EB/SS, All ViDi EL	C-Mount	N/A	N/A
	IS2802M-50000-SC	2MP	Mono Straight	EB/SS, EL Classify	C-Mount	N/A	N/A
	IS2802C-50000-SC	2MP	Color Straight	EB/SS, EL Classify	C-Mount	N/A	N/A
	IS2802M-50001-SC	2MP	Mono Angled	EB/SS, EL Classify	C-Mount	N/A	N/A
	IS2802C-50001-SC	2MP	Color Angled	EB/SS, EL Classify	C-Mount	N/A	N/A
	IS2802M-50000-SO	2MP	Mono Straight	EB/SS, EL Read	C-Mount	N/A	N/A
	IS2802C-50000-SO	2MP	Color Straight	EB/SS, EL Read	C-Mount	N/A	N/A
	IS2802M-50001-SO	2MP	Mono Angled	EB/SS, EL Read	C-Mount	N/A	N/A
	IS2802C-50001-SO	2MP	Color Angled	EB/SS, EL Read	C-Mount	N/A	N/A
	IS2802M-50000-SR	2MP	Mono Straight	EB/SS, Rule-based	C-Mount	N/A	N/A
	IS2802C-50000-SR	2MP	Color Straight	EB/SS, Rule-based	C-Mount	N/A	N/A
	IS2802M-50001-SR	2MP	Mono Angled	EB/SS, Rule-based	C-Mount	N/A	N/A
	IS2802C-50001-SR	2MP	Color Angled	EB/SS, Rule-based	C-Mount	N/A	N/A

[1] EasyBuilder/Spreadsheet

This table includes only the most common product models. To get information on other available models, including angled configurations, please contact Cognex Sales at **cognex.com/contact-sales**.

Product IDs and Descriptions

In-Sight 2800/2801

	Product ID	Resolution	Configuration	Toolset	Light	Lens	Cover
	IS2801M-24420-EC	1.6MP	Mono Straight	EasyBuilder, EL Classify	RGBW Multi Torch	8 mm HSLL	Diffused
	IS2801C-24420-EC	1.6MP	Color Straight	EasyBuilder, EL Classify	RGBW Multi Torch	8 mm HSLL	Diffused
	IS2801M-24520-EC	1.6MP	Mono Straight	EasyBuilder, EL Classify	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2801C-24520-EC	1.6MP	Color Straight	EasyBuilder, EL Classify	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2801M-24620-EC	1.6MP	Mono Straight	EasyBuilder, EL Classify	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2801C-24620-EC	1.6MP	Color Straight	EasyBuilder, EL Classify	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2801M-24420-EO	1.6MP	Mono Straight	EasyBuilder, EL Read	RGBW Multi Torch	8 mm HSLL	Diffused
	IS2801C-24420-EO	1.6MP	Color Straight	EasyBuilder, EL Read	RGBW Multi Torch	8 mm HSLL	Diffused
	IS2801M-24520-EO	1.6MP	Mono Straight	EasyBuilder, EL Read	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2801C-24520-EO	1.6MP	Color Straight	EasyBuilder, EL Read	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2801M-24620-EO	1.6MP	Mono Straight	EasyBuilder, EL Read	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2801C-24620-EO	1.6MP	Color Straight	EasyBuilder, EL Read	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2801M-24420-EA	1.6MP	Mono Straight	EasyBuilder, All ViDi EL	RGBW Multi Torch	8 mm HSLL	Diffused
	IS2801C-24420-EA	1.6MP	Color Straight	EasyBuilder, All ViDi EL	RGBW Multi Torch	8 mm HSLL	Diffused
	IS2801M-24520-EA	1.6MP	Mono Straight	EasyBuilder, All ViDi EL	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2801C-24520-EA	1.6MP	Color Straight	EasyBuilder, All ViDi EL	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2801M-24620-EA	1.6MP	Mono Straight	EasyBuilder, All ViDi EL	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2801C-24620-EA	1.6MP	Color Straight	EasyBuilder, All ViDi EL	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2801M-24520-ER	1.6MP	Mono Straight	EasyBuilder, Rule-based	RGBW Multi Torch	12 mm HSLL	Diffused
	IS2801M-24220-ER	1.6MP	Mono Straight	EasyBuilder, Rule-based	RGBW Multi Torch	12 mm	Diffused
	IS2801M-24620-ER	1.6MP	Mono Straight	EasyBuilder, Rule-based	RGBW Multi Torch	16 mm HSLL	Diffused
	IS2801M-42610-EC	1.6MP	Mono Straight	EasyBuilder, EL Classify	HPIL Red	16 mm HSLL	Clear
	IS2800M-42610-EC	SVGA	Mono Straight	EasyBuilder, EL Classify	HPIL Red	16 mm HSLL	Clear
	IS2800M-42610-ER	SVGA	Mono Straight	EasyBuilder, Rule-based	HPIL Red	16 mm HSLL	Clear
	IS2801M-32710-EC	1.6MP	Mono Straight	EasyBuilder, EL Classify	Mini Red	6.2 mm HSLL	Clear
	IS2800M-32710-EC	SVGA	Mono Straight	EasyBuilder, EL Classify	Mini Red	6.2 mm HSLL	Clear
	IS2800M-32710-ER	SVGA	Mono Straight	EasyBuilder, Rule-based	Mini Red	6.2 mm HSLL	Clear
	IS2801M-50000-EC	1.6MP	Mono Straight	EasyBuilder, EL Classify	C-Mount	N/A	N/A
	IS2801C-50000-EC	1.6MP	Color Straight	EasyBuilder, EL Classify	C-Mount	N/A	N/A
	IS2801M-50000-EO	1.6MP	Mono Straight	EasyBuilder, EL Read	C-Mount	N/A	N/A
	IS2801C-50000-EO	1.6MP	Color Straight	EasyBuilder, EL Read	C-Mount	N/A	N/A
	IS2801M-50000-EA	1.6MP	Mono Straight	EasyBuilder, All ViDi EL	C-Mount	N/A	N/A
	IS2801C-50000-EA	1.6MP	Color Straight	EasyBuilder, All ViDi EL	C-Mount	N/A	N/A
	IS2801M-61730-EA	1.6MP	Mono Straight	EasyBuilder, All ViDi EL	Wide-angle HPIA	6.2 mm HSLL	Polarized/ Clear
	IS2801C-61730-EA	1.6MP	Color Straight	EasyBuilder, All ViDi EL	Wide-angle HPIA	6.2 mm HSLL	Polarized/ Clear
	IS2801M-61630-EA	1.6MP	Mono Straight	EasyBuilder, All ViDi EL	Wide-angle HPIA	16 mm HSLL	Polarized/ Clear
	IS2801C-61630-EA	1.6MP	Color Straight	EasyBuilder, All ViDi EL	Wide-angle HPIA	16 mm HSLL	Polarized/ Clear

This table includes only the most common product models. To get information on other available models, including angled configurations, please contact Cognex Sales at **cognex.com/contact-sales**.

Components and accessories

Required

Power and I/O Cables

	Product ID	Length	Description
	CCB-PWRIO-05	5M	M12-12 to flying lead, straight
	CCB-PWRIO-10	10M	
	CCB-PWRIO-15	15M	
	CCB-PWRIO-05R	5M	M12-12 to flying lead, right-angled
	CCB-PWRIO-10R	10M	
	CCB-PWRIO-15R	15M	

Mounting Brackets

	Product ID	Description
	DM100-UBRK-000	Universal mounting bracket
	DM100-PIVOTM-01	Pivot mounting bracket
	280-BKT-ADAPT	Flat surface mounting plate adapter for Multi Torch configuration

Ethernet Cables

	Product ID	Length	Description
	CCB-84901-2001-02	2M	X-coded M12-8 to RJ-45, straight
	CCB-84901-2001-05	5M	
	CCB-84901-2001-10	10M	
	CCB-84901-2001-15	15M	
	CCB-84901-2001-30	30M	
	CCB-84901-2002-02	2M	X-coded M12-8 to RJ-45, right-angled
	CCB-84901-2002-05	5M	
	CCB-84901-2002-10	10M	
	CCB-84901-2RBT-02	2M	Robotic X-coded M12-8 to RJ-45, straight
	CCB-84901-2RBT-05	5M	
	CCB-84901-2RBT-10	10M	

Optional

Multi Torch Bandpass Filters

	Product ID	Description
	280-TORCH-BP450	Blue bandpass filter (450 nm)
	280-TORCH-BP635	Red bandpass filter (635 nm)

Multi Torch Front Covers*

	Product ID	Description
	280-TORCH-COVPOL	Multi Torch cross polarized cover
	280-TORCH-COVCLR	Multi Torch clear cover
	280-TORCH-COVDIF	Multi Torch diffused cover
	280-TORCH-DOME	Multi Torch dome attachment

C-mount

	Product ID	Description
	DM280-CMNT-00	C-mount adapter
	DM280-CMNT-CVR	C-mount cover

Mini Bandpass Filters

	Product ID	Description
	DM150-BP470	Blue bandpass filter (6.2 mm lens only)
	DM150-BP635	Red bandpass filter (6.2 mm lens only)

Mini Front Covers*

	Product ID	Description
	DM280-CVR-62	Mini front cover (6.2 mm lens)—clear
	DM280-LENS-62CVR-F	Mini front cover (6.2 mm lens)—polarized
	DM260-LENS-16CVR	Mini HPIL front cover (16 mm lens)—clear
	DM260-LENS-16CVR-P	Mini HPIL front cover (16 mm lens)—half polarized
	DM260-LENS-16CVR-F	Mini HPIL front cover (16 mm lens)—fully polarized

*In-Sight 2800 comes with one front cover. Additional options or spare covers listed.
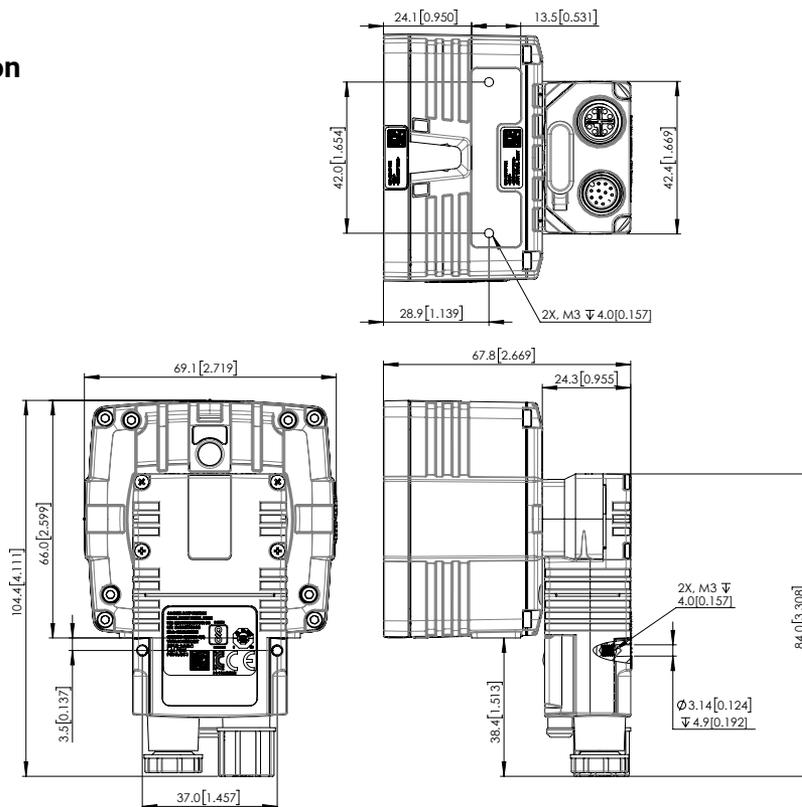
Dimensions

In-Sight 2800 Series with Multi Torch

Straight configuration
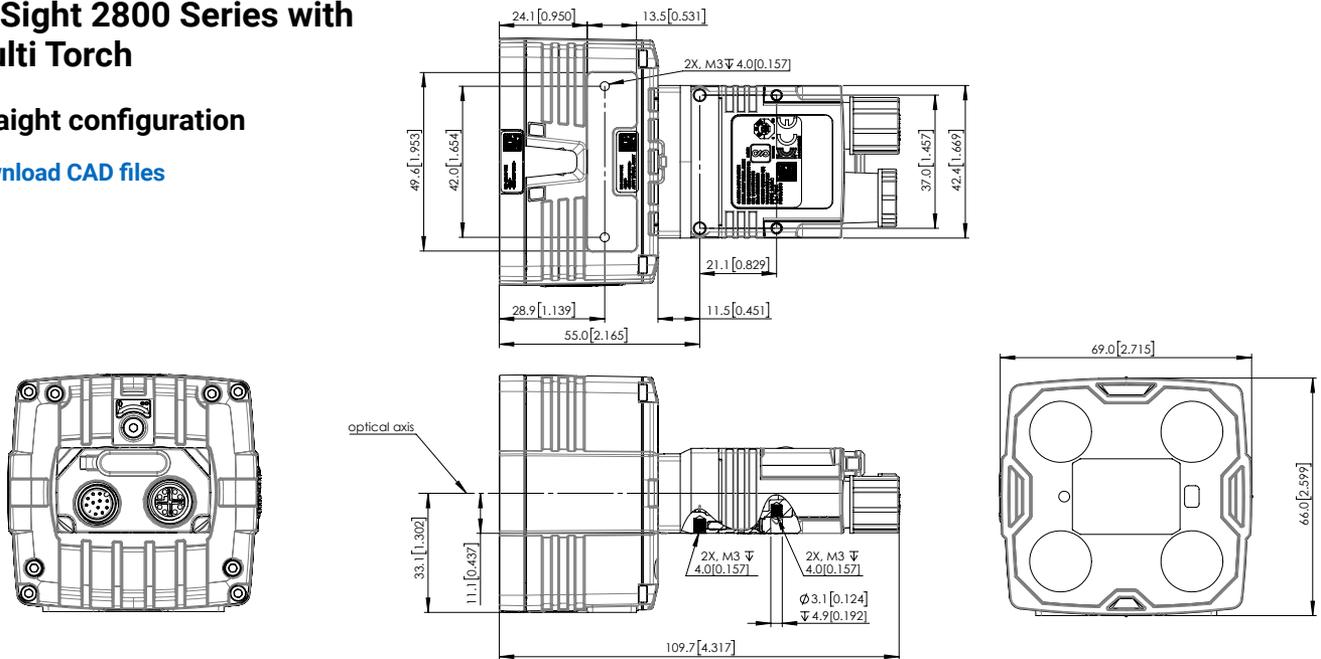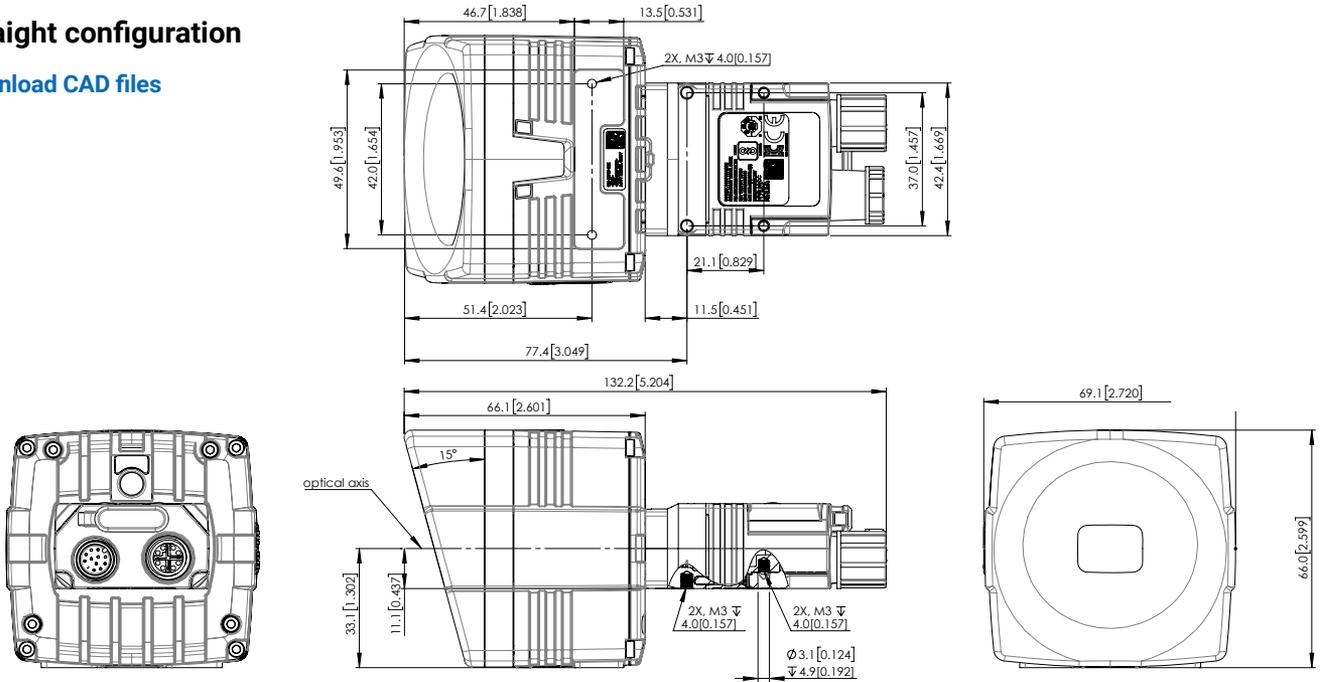
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Right angle configuration

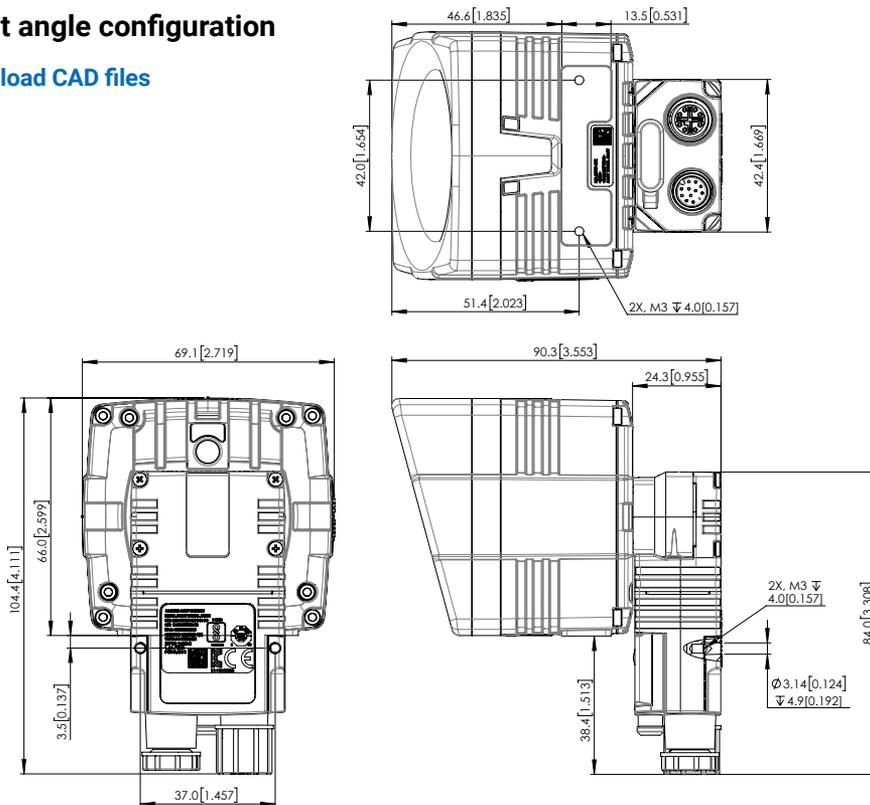Download CAD files

In-Sight 2800 Series with dome attachment

Straight configuration

Download CAD files

Right angle configuration
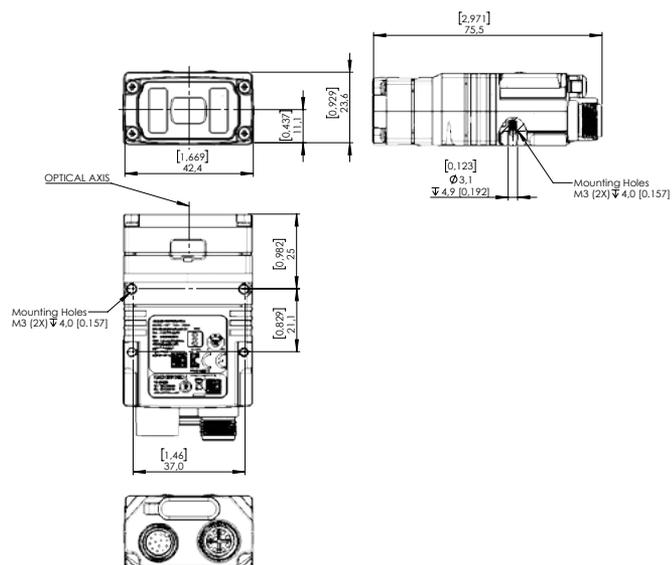
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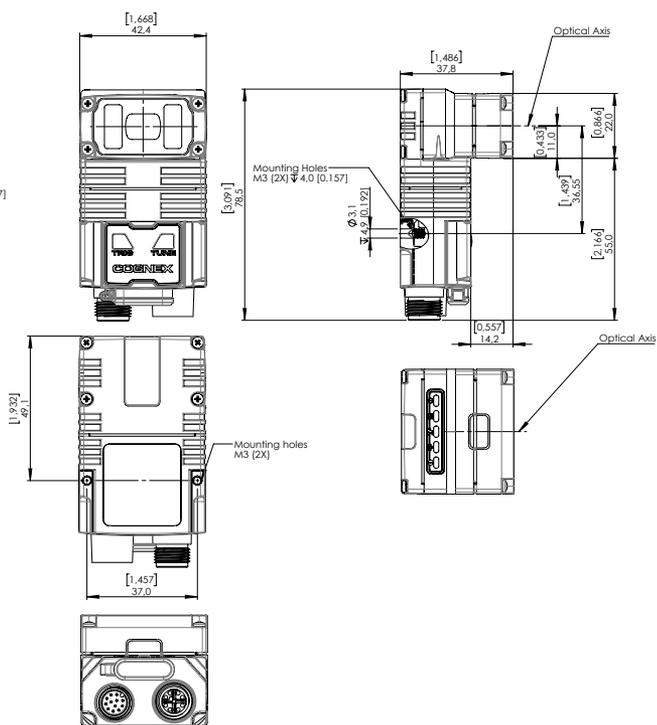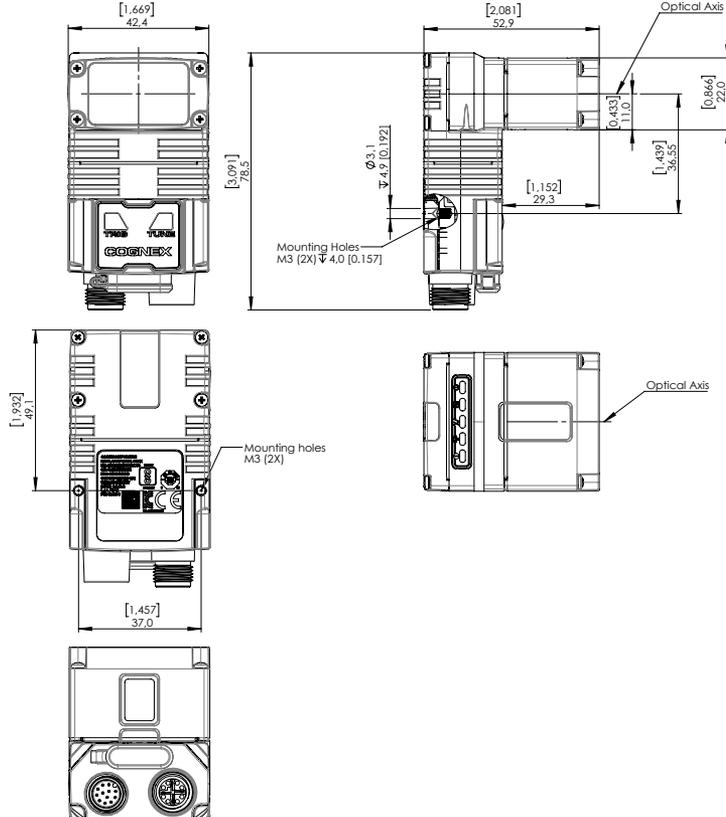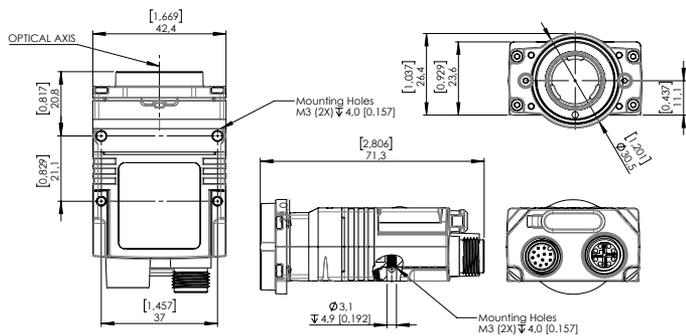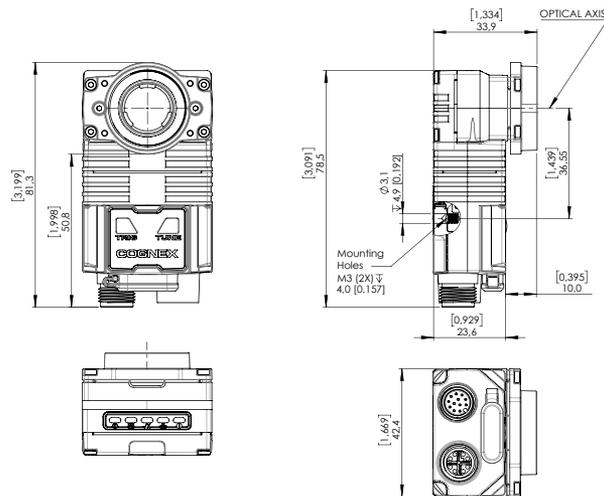
In-Sight 2800 Series Mini with 6.2 mm lens front cover

Straight configuration

Right angle configuration

In-Sight 2800 Series Mini with 16 mm lens HPIL front cover

Straight configuration
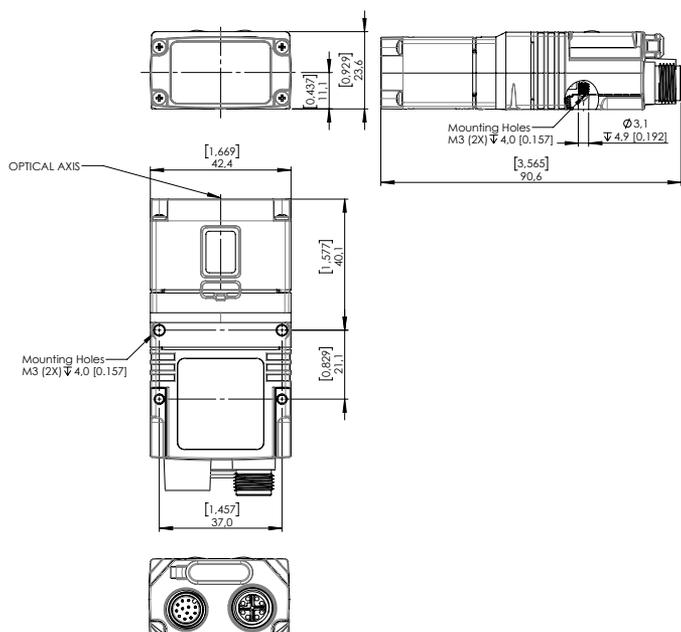
Right angle configuration

In-Sight 2800 Series with C-mount

Straight configuration
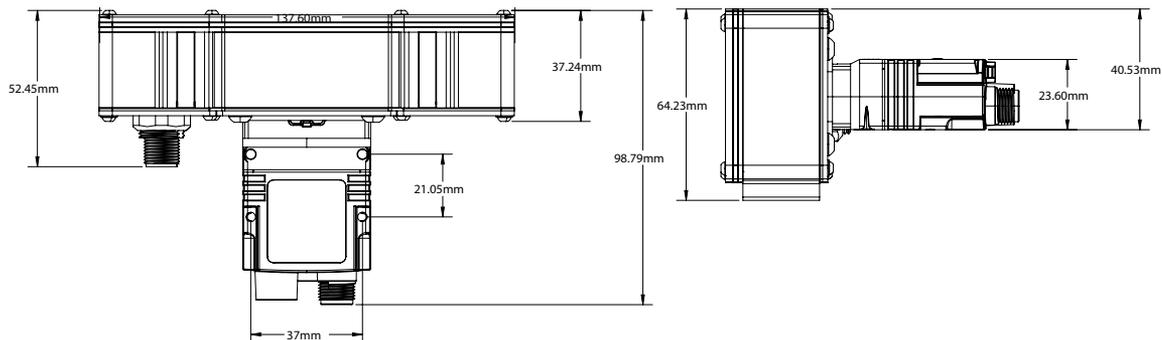
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Right angle configuration

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In-Sight 2800 Series with C-mount cover

Straight configuration
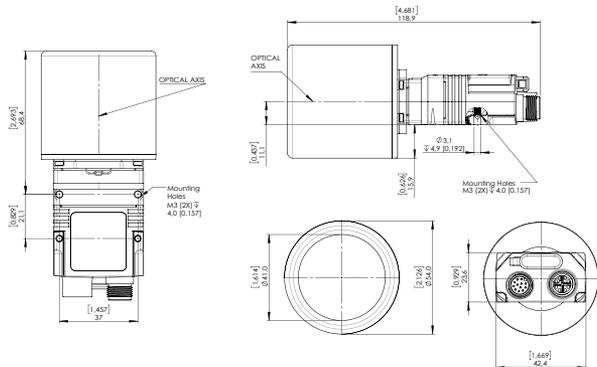
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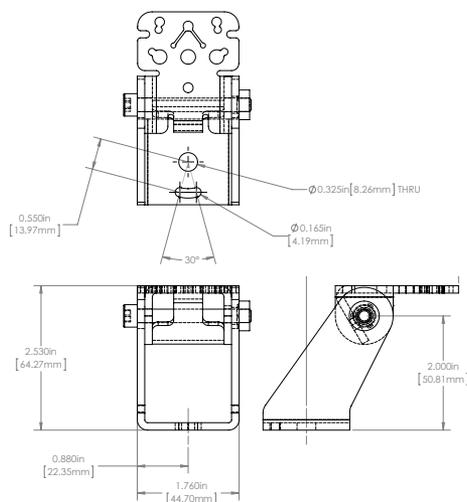

Right angle configuration
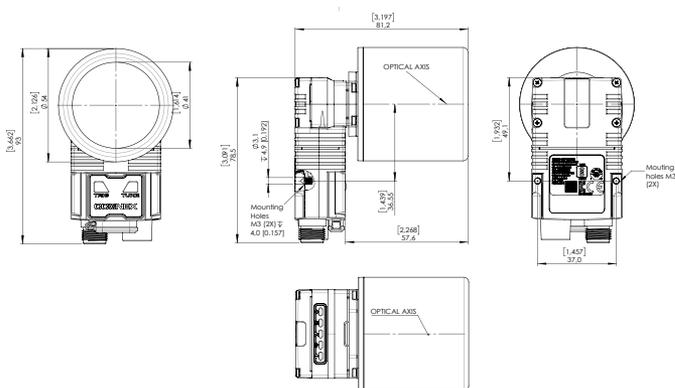
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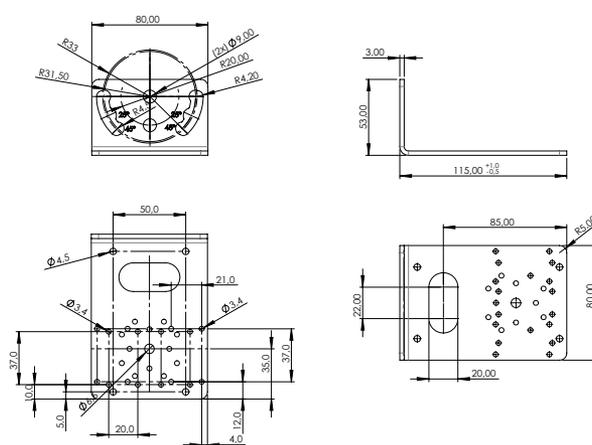# In-Sight 2800 Series with Wide-Angle HPIA

Straight configuration

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Pivot mounting bracket

Universal mounting bracket

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