

ADVANTAGE 100 SERIES

Fixed-mount OEM vision system

- Powerful and reliable vision and identification tools from the industry leader in machine vision technology
- Best-in-class 1D and 2D code reading
- Easy and powerful application development software
- Flexible optics and illumination options
- Different resolutions and color models available
- Exceptionally compact design



Advantage™ 100 series vision systems offer original equipment manufacturers (OEMs) the ability to leverage the power of Cognex vision and barcode reading tools in a product that is compact, flexible and cost effective. The Advantage OEM product family from Cognex delivers best-in-class 1D and 2D code reading, plus a full suite of industry-proven vision tools to locate, analyze and inspect parts or features. The Advantage 100 series includes proven, easy-to-use application software and is designed for deep integration into OEM products.

Solve the Most Challenging Applications

Cognex industry-proven vision tools locate, inspect and analyze parts accurately and reliably. Whether the application is to identify the pattern of a part, count objects, read text (OCR), read a barcode or measure distances, the Advantage 100 series provides OEMs with a reliable and easy-to-implement solution.

Read the Most Challenging Codes

Cognex is the leader in industrial image-based barcode reading. The Advantage 100 series uses advanced 1DMax® with Hotbars® and 2DMax® code reading algorithms to read the most difficult codes. Cognex code reading technology provides superior performance even on codes with scratches, voids, low contrast, rotation or specular reflection.

Flexible Optics, Lighting and Communications

The Advantage 100 series allows maximum flexibility for specifying the optics and lighting to customize OEM integration. With two different resolutions and a high resolution color model, the Advantage 100 series easily adapts to a wide range of vision application requirements. Applications range from simple presence/absence, to high precision alignment measurements, and complex color inspections of samples. The modular lens design provides the ability to use different lenses for optimal working distance and field-of-view requirements. The Advantage 100s provide three communication options—connect, communicate, and transfer images via Ethernet (RJ45) or send data with RS-232. Power supply, digital I/Os and serial communication is all provided on a standard DB15 connector or a USB-C connector with an easy to integrate form factor.

Simple Application Development Software

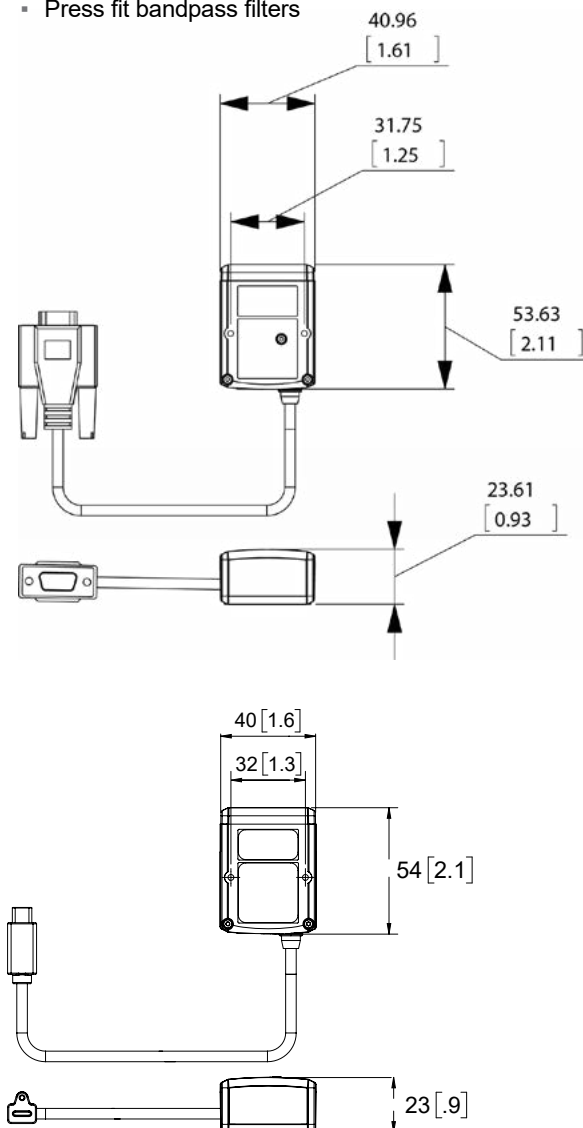
The Advantage 100 series includes easy-to-use Cognex application software to quickly test and develop the vision and barcode reading tools needed for specific requirements. Cognex software and vision tools provide unmatched flexibility, ease of use and control.

SPECIFICATIONS

Dimensions	23 mm (H) x 44 mm (W) x 54 mm (L)
Weight	54 g
Power	5 to 24 VDC
Operating temperature	0 °C to 40 °C (32 °C to 104 °F)
Illumination	Integrated red LED illumination Additional add on illumination accessory available (red, blue, white, NIR)
Imager	ADV100: 752 x 480, 1/3 inch CMOS ADV102: 1280 x 960, 1/3 inch CMOS ADV102C: 1280 x 960, 1/3 inch color CMOS
Optics	M12 6.2 mm f/5 3-focal position lens standard Optional lenses: 3.5 mm f/6, 6.2 mm f/10, 8 mm f/2, 10.2 mm f/5, 16 mm f/7, 25 mm f/2
Communication	Ethernet 10/100 (configuration plus data and image output) RS-232 (data output) USB (data output)
Connections	RJ-45: Ethernet DB15 or USB-C: power, I/O and serial
Inputs	2 digital
Outputs	3 digital (2 general purpose, 1 external strobe)
Trigger	3.3 to 26 VDC
Environmental	RoHS- and WEEE-compliant Humidity: 95% (non-condensing)
Indicator LEDs	Yellow: power Flashing Yellow: communication Red: error Green/Red: go/no go or good read/bad read
Symbologies	2D: DataMatrix, QR Code 1D: Code 128, Code 39, Interleaved 2 of 5, Pharmacode, UPC/EAN, Code 93, Codabar, GS1-128, POSTNET, PLANET, Japan Post, Australia Post, UPU, USPS OneCode Composite: PDF417, Micro PDF417, GS1/Databar
Vision and barcode reading tools (partial list)	1DMax with Hotbars, 2DMax, PatMax®, PatQuick®, normalized correlation, edge, caliper, geometry tools, blob, histogram, OCR, OCV, image filtering tools

Available accessories:

- Red, blue or IR add-on illumination
- Lens extension
- 3.7 mm, 8 mm, 16 mm and 25 mm lenses
- Extended lens cover
- Press fit bandpass filters



COGNEX

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

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