

Extensive coverage and seamless deployments through advanced technology

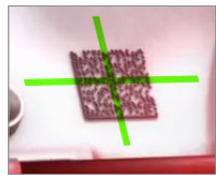
The DataMan 380 is embedded with leading image formation and decoding technology, ready to increase throughput and read rates out of the box. Modular lighting options maximize flexibility and simplify deployments.

High-Powered Integrated Torch (HPIT) maximizes scanning coverage and minimizes exposure times for greater throughput. Red and white lighting options illuminate codes in various lighting conditions.

C-mount lens and HSL options maximize application coverage

High resolution sensors enable greater field-of-view and depth-of-field coverage

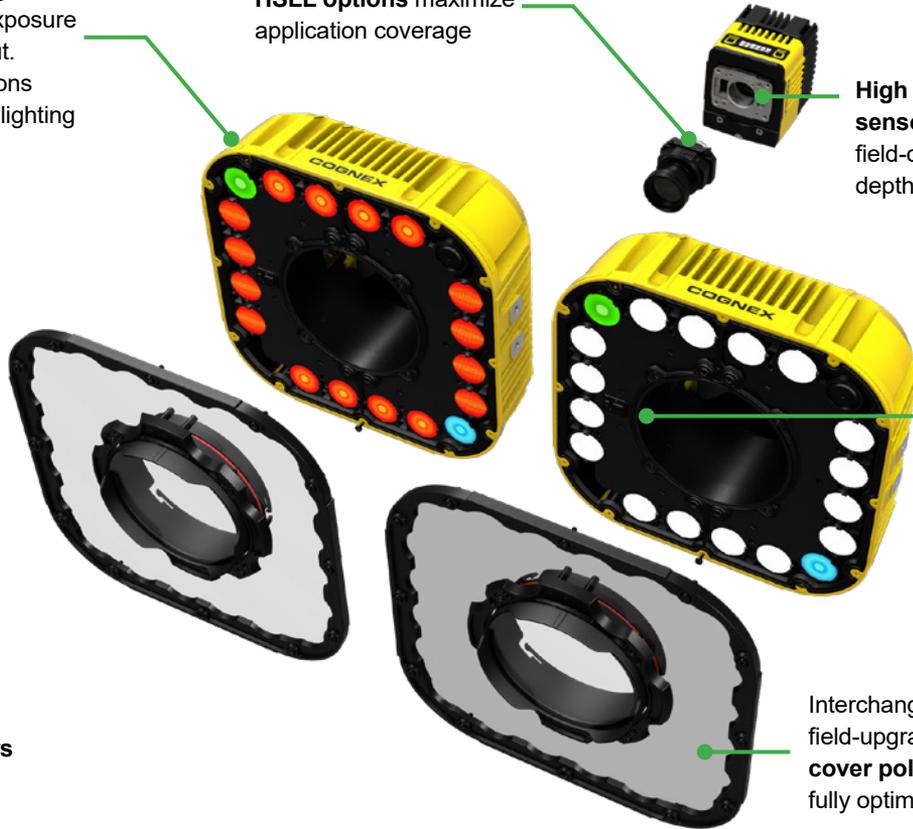
Distance sensor to dynamically focus the lens or trigger the reader



Guided laser aimer allows field-of-view to be clearly mapped to the desired target.



Multi-color LED indicators provide operator feedback



Interchangeable, field-upgradeable **front cover polarization filters** fully optimize image quality

Scalable, full-coverage reading

Synchronize multiple barcode readers to extend your field of view or simultaneously capture every side of an object for multi-side barcode reading.

Multi-reader sync (MRS) technology seamlessly increases reading coverage by enabling a primary reader to collect data from secondary readers and communicate the results to a control system.

Synchronized code reading and image offload



DATAMAN 380 SERIES SPECIFICATIONS

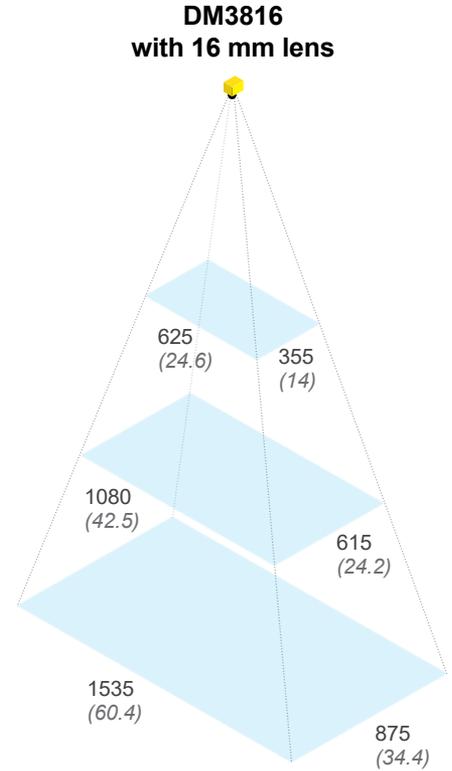
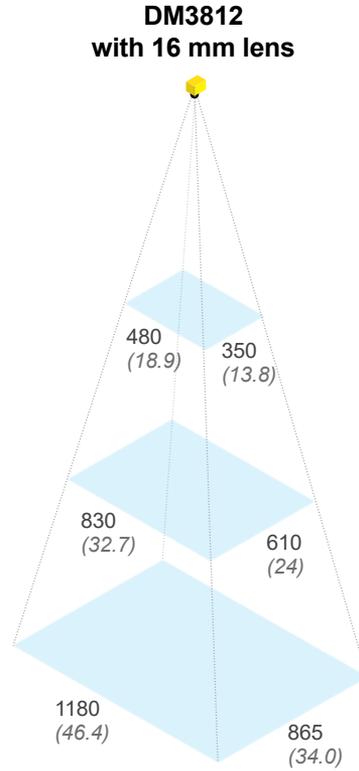
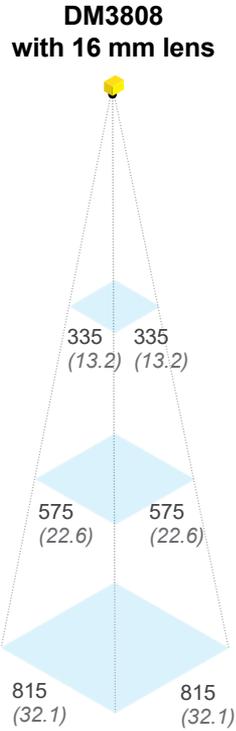
Lens Type	C-Mount, Cognex High Speed Liquid Lens Autofocus
Trigger	1 opto-isolated, acquisition trigger input.
Discrete Inputs	1 opto-isolated, acquisition trigger input. Up to 3 general-purpose inputs when connected to the Breakout cable. $V_{IL} \leq \pm 6 \text{ V}$ $V_{IH} \geq \pm 12 \text{ V}$ $I_{TYP} : 4.2 \text{ mA @ } 24 \text{ V}$
Discrete Outputs	Up to 4 outputs when connected to the Breakout cable. $I_{MAX} : 50 \text{ mA}$ $V_{OL} \leq \pm 3 \text{ V @ } 50 \text{ mA}$
Status LEDs	Pass/Fail LED and Indicator Ring, Network LED, and Error LED.
Codes	1D barcodes: Codabar, Code 39, Code 128, Code 93, Code 25, Interleaved 2 of 5, UPC/EAN/JAN 2D barcodes: Data Matrix (ECC 0, 50, 80, 100, 140, and 200), QR Code, PDF 417, MaxiCode
Network Communication	2 Ethernet ports, 10/100/1000 BaseT with auto MDIX. IEEE 802.3 TCP/IP Protocol. Supports DHCP, static, and link-local IP address configuration. One port supports TSN networks. RS-232: Rx/D, Tx/D according to TIA/EIA-232-F
Power Consumption	24 V DC +/- 10% LPS or NEC class 2 Power consumption without USB device attached: Average $\leq 15 \text{ W}$ without illumination Average $\leq 40 \text{ W}$ with illumination Peak $\leq 2 \text{ A}$
Power Output	24 V DC at 1.0 A maximum to external light.
Material	Die-cast and extruded aluminum housing.
Finish	Painted.
Mounting	Four M3 threaded mounting holes. Pattern: 38.5 × 58.5 mm (1.52 × 2.60 in)
Weight	DataMan 380 with no accessories attached: 775 g (27.3 oz).
Case Temperature	0° C to 40° C (32° F to 122° F)
Storage Temperature	-20° C to 80° C (-4° F to 176° F)
Humidity	< 95% non-condensing

DATAMAN 380 SERIES IMAGE SENSOR SPECIFICATIONS

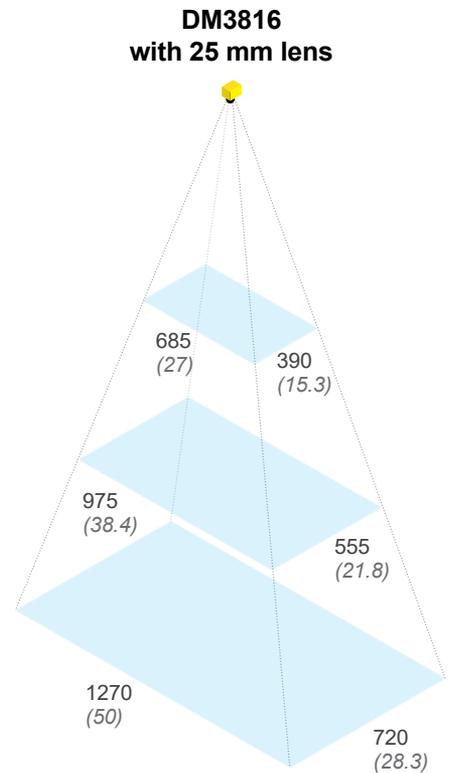
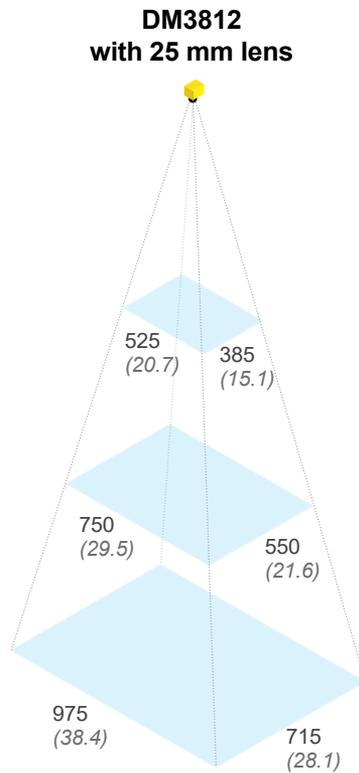
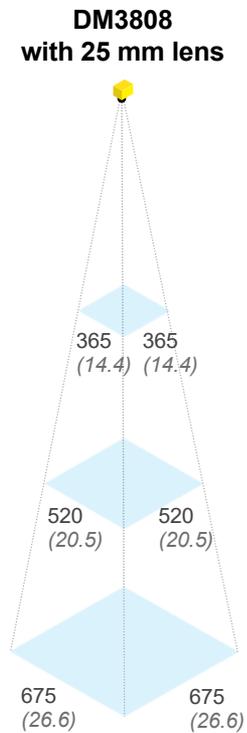
	DM3808	DM3812	DM3816
Sensor Type	1/1.1-inch CMOS	1/1.1-inch CMOS	1.1-inch CMOS
Image Sensor Properties	Diagonal size: 11.1 mm Pixel size: 2.74 μm (H) x 2.74 μm (V)	Diagonal size: 14 mm Pixel size: 2.74 μm (H) x 2.74 μm (V)	Diagonal size: 16.8 mm Pixel size: 2.74 μm (H) x 2.74 μm (V)
Maximum Image Resolution (pixels)	2840 × 2840 (8.06 MP)	4096 × 3000 (12.28 MP)	5320 × 3032 (16.13 MP)
Electronic Shutter Speed	Minimum exposure: 15 μs Maximum exposure: 200 ms		

Field of view diagrams

Working distances
Units: mm (in)



Working distances
Units: mm (in)





Please contact Cognex sales for part numbers and pricing on the configuration options below.

cognex.com/sales

DATAMAN 380 KITS

	Resolution	Software	Lens	Focus	Illumination
	8 MP 12 MP 16 MP	1D/2D omnidirectional code reading	16, 25, 35 mm C-mount lensing + lens cover	Custom pre-focus (optional)	Integrated or external illumination (red or white)

MOUNTING BRACKETS

	Product ID	Description
	DMBK-PIVOT-DM380	Pivot mounting bracket
	DMBK-PVT-HPIT-380	U-shaped mounting bracket for use with HPIT

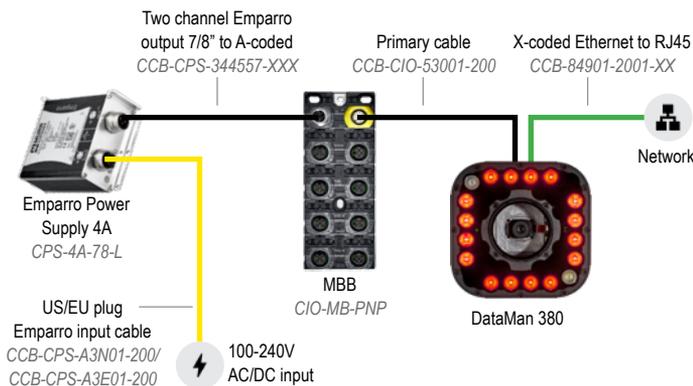
LENSES

	Lens Product ID	Lens Cover Product ID	Description
	CLN-C16F06-UR	COV-380-CMNT-45	16 mm f6.5.5 C-mount lens
	CLN-C25F06-UR	COV-380-CMNT-45	25 mm f6.5.5 C-mount lens
	LEC-86571	COV-380-CMNT-60	16 mm var. aperture C-mount lens
	LEC-86572	COV-380-CMNT-60	25 mm var. aperture C-mount lens
	LEC-86573	COV-380-CMNT-75	35 mm var. aperture C-mount lens

COGNEX IO

	Product ID	Description
	CPS-4A-78-L*	Emparro Power Supply 4A 7/8" - L
	CPS-8A-78-L	Emparro Power Supply 8A 7/8" - L
	CIO-MB-PNP*	Master Breakout Board (MBB)
	CIO-PD-4	Power Distribution Board (PDB)
	CIO-HS-4	Hybrid Switch (HS)
	CCB-CPS-A3N01-200/ CCB-CPS-A3E01-200*	US plug Emparro input or EU plug Emparro input (2 m)
	CCB-CIO-40021-XX	External/light cable (1-4 m)
	CCB-CPS-344557-XXX	Two channel Emparro output 7/8" to A-coded (0.5 m, 1-5 m)
	CCB-CIO-53001-200*	Primary cable 12 pin (2 m)
	CCB-CIO-P4141-XX	L-coded power chain (0.5 m, 1-5 m)
	CCB-84901-2001-XX*	X-coded Ethernet to RJ45 (2 m, 5 m, 10 m, 15 m)
	CCB-CIO-51001-XX	X-coded Ethernet chain (0.5 m, 1-5 m, 10 m, 15 m)
	CCB-CIO-40507-XX	Power cable (0.5 m, 1-5 m)
	CCB-CIO-X0116-XX	Two channel A-coded to A-coded (0.5 m, 1-5 m)
	CCB-PWRIO-XX	Power and I/O breakout cable, M12-12 to flying lead (5 m, 10 m, 15 m)

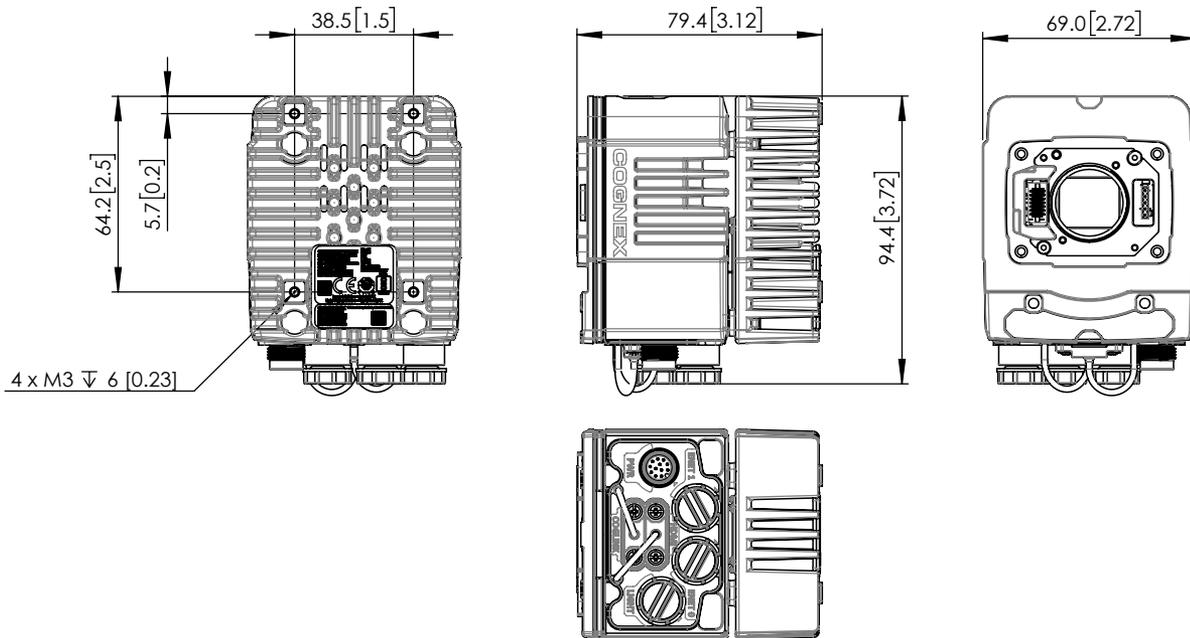
*Recommended Cognex IO components required for standalone DataMan 380 installations



Dimensions

DataMan 380 base unit

[Download CAD files](#)



DataMan 380 with 45 mm lens cover

[Download CAD files](#)

