

VT-SM2-2048DL-M/C **



- 3MP @60 fps
- Built-in high-precision positioning, measurement and recognition algorithms for counting, defects, existence, positioning and other functions.
- Support RS-232, TCP, UDP, FTP, Modbus and other communication modes.
- Rotatable design, suitable for narrow space.
- Optional multi-focal length lens

Applied range • Counting • Existence • Size Measuring • QR Code Reading • Logistics Industry • Food and Medical Industry

Vision Tool

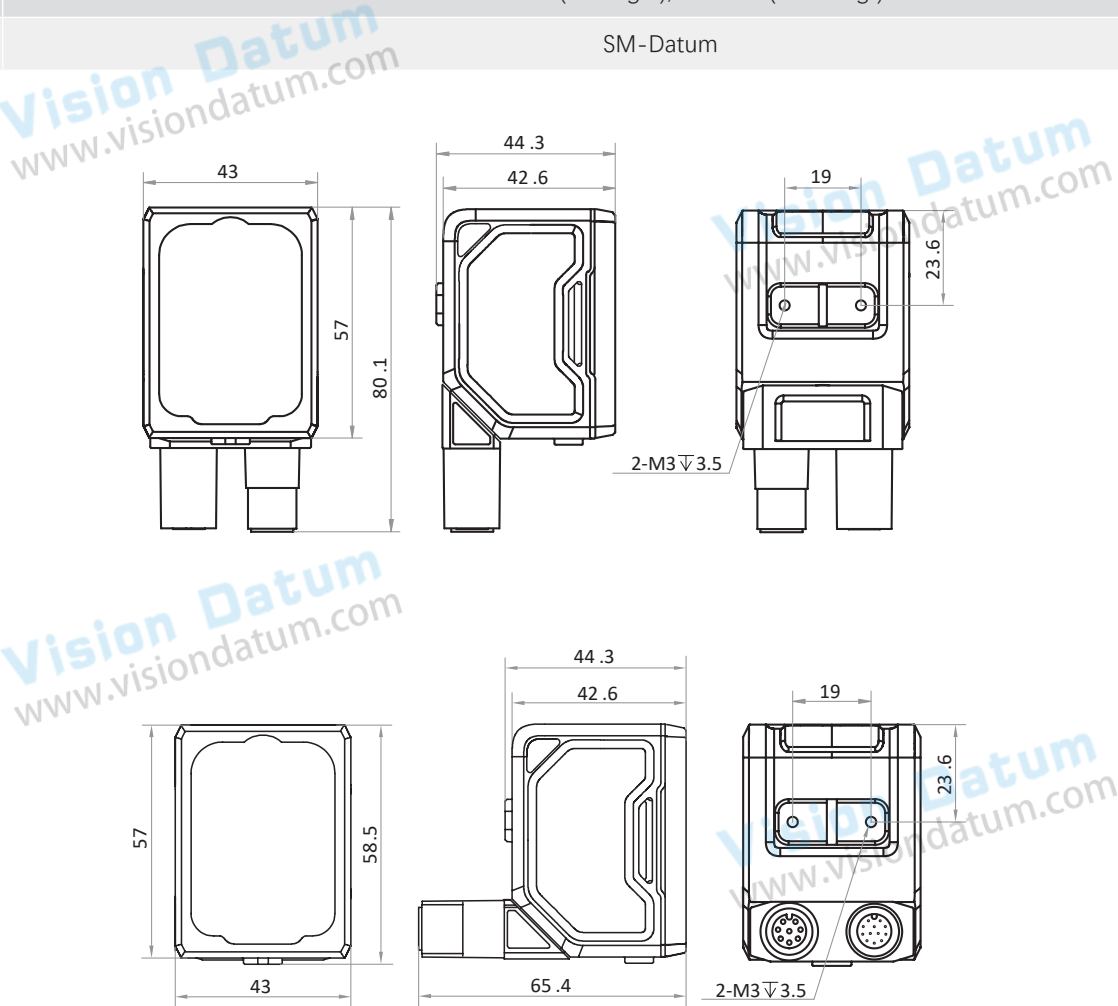
- Count: Spot count, edge count, pattern count, contour count
- Defect detection: Exception detection
- Existence: Circle existence, line existence, spot existence, edge existence, pattern existence, contour existence
- Location: Match calibration, match location, position fixture, and color contrast (Color cameras only)
- Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator
- Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement
- Recognition: OCR, code recognition, classification registration, object detection registration, and color contrast (Color cameras only)
- Deep learning: DL object detection, DL classification (Color cameras only)

Camera	VT-SM2-2048DL-M08/12/16		VT-SM2-2048DL-C08/12/16
Camera	Supports solution importing and exporting, up to 32 solutions		
Solution Capacity	RS-232、TCP、UDP、FTP、Modbus、MELSEC/SLMP、FINS、Keyence KV		
Resolution [H*V]	2048 × 1536		
Sensor Size	1/1.8"		
Sensor Tecchnology	Global, CMOS		
Pixel Size [μm]	3.45 × 3.45		
Lens Mount	M12-Mount, mechanical autofocus supported		
Focal Length	8mm	12mm	16mm
Lens Cap	Polarized + diffused + full-transparent lens cap (optional)		
Light Source	White spot light source. Red/blue/IR point light source is optional		
Frame Rate [fps]	40		
Exposure Time	6μs~1s		
Dynamic Range	77.8dB		
Mono/Color	Mono	Color	
Image Format	Mono 8	Mono 8, RGB 8	
Data interface	Fast Ethernet (100Mbit/s)		
Digital I/O	Supports triggering device via pressing top trigger button. 12-pin M12 connector provides power, I/O, including: opto-isolated input × 3, optoisolated output × 3, and RS-232 × 1		
Power Input	DC 24V		
Power Consumption	24V @6.5W		

**Support different focal length selection

Camera	VT-SM2-2048DL-M08/12/16	VT-SM2-2048DL-C08/12/16
Dimension	Straight angle: 80.1 × 43 × 44.3 mm Right angle: 58.5 × 43 × 65.4 mm (190g)	
Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Software	SM-Datum	

Dimensions:



Detection Range:

Lens focal length (mm)	Working Distance (mm)	Field of view (mm)	Single pixel accuracy
8 mm	25 mm	22.08 mm × 16.56 mm	0.011 mm
	2000 mm	22.08 mm × 16.56 mm	0.863 mm
12 mm	60 mm	35.33 mm × 26.50 mm	0.017 mm
	2000 mm	1177.60 mm × 883.20 mm	0.575 mm
16 mm	100 mm	44.16 mm × 33.12 mm	0.022 mm
	2000 mm	883.20 mm × 662.40 mm	0.431 mm

Note: During the operation of this product, looking directly at this product may cause harm to the eyes, and protective measures such as protective glasses should be worn during operation.

