

### SM2-1408DL-M/C Smart Camera

- 160MP @60 fps
- Built-in high-precision positioning, measurement and identification algorithms
- Output results via RS-232 and Ethernet, and cooperate with other processes via I/O
- Optional multi-focal length lens
- Uniform brightness of illuminated areas



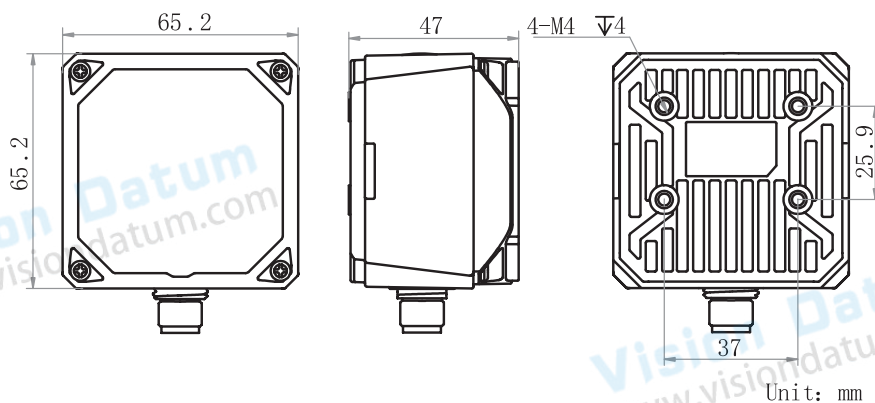
**Applied range** • Counting • Existence • Size Measuring • QR Code Reading • Logistics Industry • Food and Medical Industry

#### 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
- 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
- Deep learning: DL object detection, DL classification

Model	SM2-1408DL-M/C06	SM2-1408DL-M/C12	SM2-1408DL-M/C15
Solution capacity	Supports importing and exporting project, up to 32 projects can be stored.		
Communication protocol	RS-232、TCP、UDP、FTP、Modbus、MELSEC/SLMP、FINS、Keyence KV		
Resolution	1408 × 1024		
Sensor size	1/2.9"		
Sensor type	CMOS, global shutter		
Pixel size	3.45μm × 3.45μm		
Lens mount	M12-mount, mechanical autofocus lens		
Focal length	6mm	12.4mm	14.8mm
Lens cap	Transparent lens hood, optional semi-polarized lens hood or fully polarized lens hood		
Light source	14 LEDs: white (factory default)/red/blue/near infrared		
Indicator	Power indicator (PWR), network indicator (LNK), status indicator (STS), result indicator (OK/NG)		
Max. frame rate	60fps		
Exposure time	16 μs ~ 1 sec		
Dynamic range	71.4 dB		
SNR	41 dB		
Gain	0 ~ 15 dB		
Color	Mono/Color		
Pixel format	RGB 8, Mono 8		
Data interface	Fast Ethernet (100Mbit/s)		
Digital I/O	Output signal can be set as NPN or PNP. 17-pin M12 connector provides power, Ethernet, digital I/O, and serial port: Input signal × 2 (Line 0/1), output signal × 3 (Line 5/6/7), bi-directional I/O × 3 (Line 2/3/4), and external button input × 1.		
Power supply	24 VDC		
Power consumption	48 W@24 VDC		
Dimension/Weight	65.2 mm × 65.2 mm × 47 mm(280g)		
Temperature/Ingress protection	-30~70 ° C ( Storage temperature), 0~50° C ( Working temperature ) IP67 (under proper installation of waterproof lens cap)		
Software	SM-Datum		

### Dimensions:



### Detection Range:

Lens focal length (mm)	Working Distance (mm)	Field of view (mm)	Single pixel accuracy
6 mm	5 mm	4.05 mm × 2.94 mm	0.003 mm
	2000 mm	1619.20 mm × 1177.60 mm	1.150 mm
12.4 mm	70 mm	27.42 mm × 19.94 mm	0.019 mm
	2000 mm	783.48 mm × 569.81 mm	0.556 mm
14.8 mm	80 mm	26.26 mm × 19.10 mm	0.019 mm
	2000 mm	656.43 mm × 477.71 mm	0.466 mm

