

iData DM3000

High-speed Fixed Mount Scanner

The efficient barcode capture capacity help enterprise business grow

With the high-efficiency capture ability, DM3000 is able to read 1D and 2D barcodes of various code systems at high speed, maximum at 84 codes/s. DM3000 can also read different complicated barcodes by the self-developed deep learning algorithm to help enterprise business grow rapidly, suitable for many industries such as mobile phone 3C, food and drugs, electronic semiconductor, auto parts, etc.

High-performance image sensor to capture HD barcode image at high speed

The image sensor has 1.6MP and 4.2MP options, match with a modular light source, it can be used for local or global fill light settings, and can quickly capture high-quality barcode images in complex light environments. The maximum reading speed can reach 84 codes/s, which improves the collection efficiency greatly.

Deep decoding algorithm to capture various complicated barcodes

Equipped with the self-developed deep decoding algorithm, DM3000 can recognize mainstream one-dimensional and two-dimensional barcodes. With the help of rich barcode sample library, DM3000 can easily read all kinds of wrinkled, low-contrast, vague, laser engraving, DPM barcodes, suitable for mobile phone 3C, food and drugs, electronic semiconductors, auto parts and many other industries.

Industrial ingress protection level, designed for complex environment

With IP67 protection, DM3000 is suitable for all kinds of dust workshops, cold and hot processing workshops, cleaning workshops, etc. The risk of equipment shutdown caused by harsh environments is much lower.



Food & Drugs
Traceability



Auto
manufacturing



Smartphone
3C manufacturing



Lithium battery
manufacturing

DM3000 Technical Specifications

Hardware Parameters

Model	DM3000-16P	DM3000-42P
Resolution	1408×1024ppi	2368×1760ppi
Camera	Mechanical focus	
Full-in Light	White light, optional red/blue light	
Indicator Light Source	Red LED	
Indicator on Housing	Power indicator: PWR Network indicator: LNK Status indicator: STS Result indicator: OK/NG	

Structural Parameters

Size (LxWxD)	65.2mm×65.2mm×42mm	65.2mm×65.2mm×47 mm
Weight	Est. 249.5g	Est. 280g
Screw Holes on Housing	Screw hole size: M4 4 holes on the back	

Scan Performance

Scan Rate	84 codes/s	60 codes/s
Frame Rate	Max. 60 FPS	Max. 30 FPS
Capture range	60mm~600mm	
Code system	One dimension: Code 39, Code 93, Code 128, CodaBar, EAN, ITF25, MATRIX25, MSI, CODE11, INDUSTRIAL25, CHINAPOST Two dimensions: QR, DM, PDF417, etc.	

Certifications

Certifications	CE, FCC, RoHS
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Electrical Parameters

Max. Output	20W 24V DC (Fill-in light is on)	47.5W 24V DC (Fill-in light is on)
Voltage	24V DC	
Digital I/O	17-pin M12 interface provides power and I/O: includes 3 non-isolated input (LineIn 0/1/2), 3 non-isolated output(LineOut 0/1/2), 1 RS232 input, 1 RS232 output supports triggering the device through the top button	
Data Interface	Fast Ethernet (100 Mbit/s)	

Environmental Parameters

Working Temperature	0°C ~ 50°C
Storage Temperature	-30°C ~ 70°C
Humidity	20% ~ 95%RH (no condensation)
IP Rating	IP67 (with waterproof lens cover installed)
Ambient Light	0~100000Lux

Communication Protocol

Protocol	SmartSDK, TCP Client, Serial, FTP, TCP Server, Profinet, MELSEC, Ethernet/IP, ModBus, Fins, SLMP
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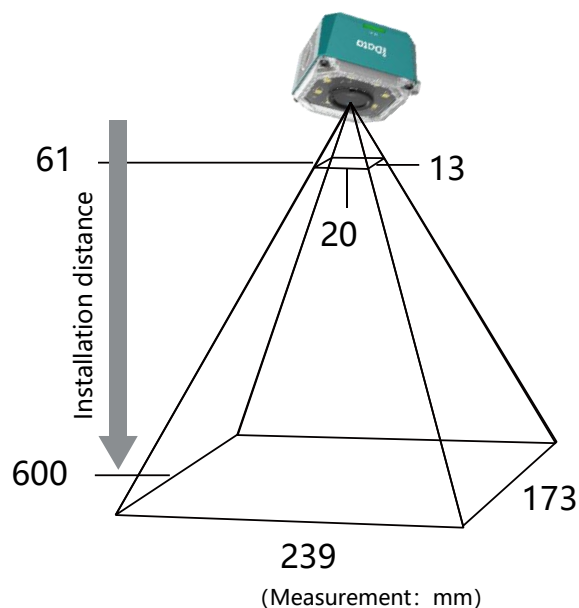
Accessories

Standard Accessories	M12 17PIN convert to OPEN+ RJ45DB9, network port male connector, 3m adaptor
Optional Accessories	Installation panel

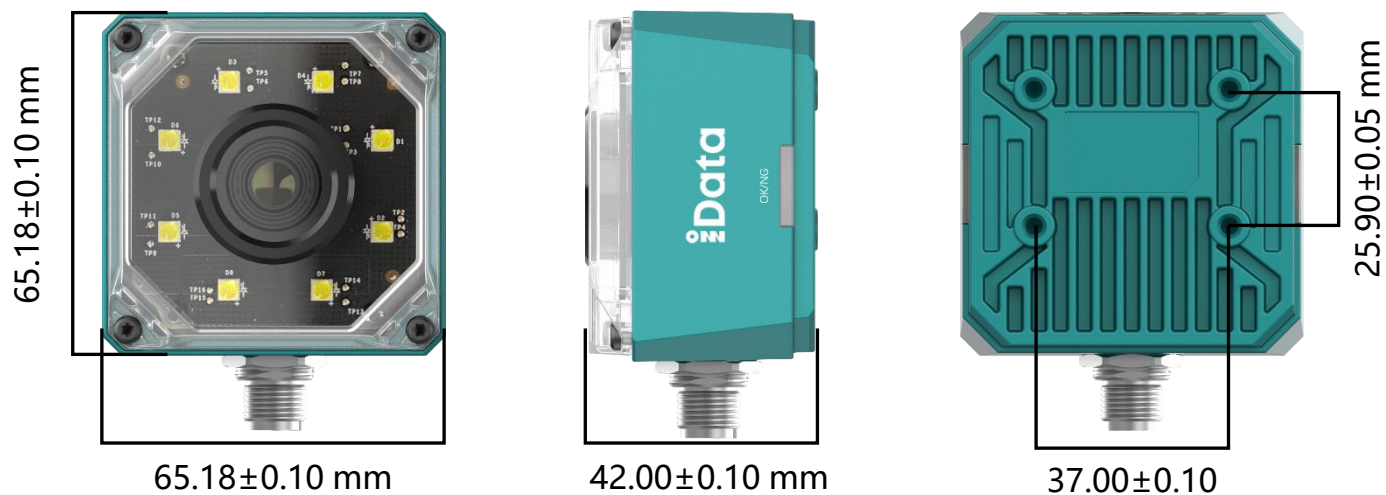
DM3000 Technical Specifications

DM3000-16P FOV, DOF and Min. Reading Accuracy

Working distance(mm)	1408x1024 pixel			
	Field of view		Min. reading accuracy	
	Horizontal (mm)	Vertical (mm)	2Dcode (mm)	1Dcode (mm)
61	20	13	0.057	0.015
100	40	27.9	0.113	0.028
200	79	49.2	0.224	0.056
300	120.8	79	0.343	0.086
400	160.9	110.5	0.457	0.114
500	200	137.2	0.568	0.142
600	239	173	0.679	0.17



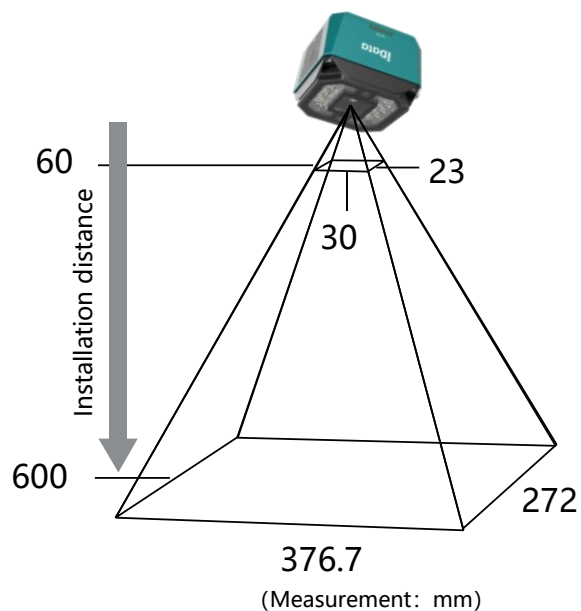
DM3000-16P Structural Diagram



DM3000 Technical Specifications

DM3000-42P FOV, DOF and Min. Reading Accuracy

Working distance(mm)	2368×1760 pixel			
	Field of view		Min. reading accuracy	
	Horizontal (mm)	Vertical (mm)	2Dcode (mm)	1Dcode (mm)
60	30	23	0.051	0.013
100	70	46.8	0.118	0.03
200	132	89.3	0.223	0.056
300	192	134.5	0.324	0.081
400	253	177	0.427	0.107
500	316.1	234.5	0.534	0.134
600	376.7	272	0.636	0.159



DM3000-42P Structural Diagram

