

F1 Series



Product Features

- Use high -performance image sensors to improve image quality.
- Support TCP/IP, Serial, FTP, HTTP and other transmission protocols.
- Built-in deep learning code reading algorithm, highly read various types of barcodes and QR codes, without fear of interference such as dirt and damage.
- With a display showing gun status and the results of the code reading.
- The charging method is wireless charging, which is more convenient to charge.
- WiFi wireless communication, the transmission distance is farther and faster.
- With a variety of decoders such as bee tweezers, vibration and indicator lights.
- The base has a wealth of communication interfaces that support a variety of communication output methods.
- The appearance uses a wiring separation design for easy replacement.

Product Model and Parameters

Transmission mode		Wireless	Wired
Focusing method		Fixed Focus	
Optical interface		M12-Mount	
Reading distance		50 mm-150 mm	
Barcode types	1D Barcodes	Code39,Code128,EAN8,EAN13,UPC_A,UPC_E,Code93,GS1-128,GS1-DataBar Expand,ITF,PHARMACODE,CODABAR etc.	
	2D Barcodes	QR Code,Data Matrix,PDF417 etc.	
Minimum decoding precision		3 mil (1D Code: 50mm-80mm)	
		5 mil (1D Code: 50mm-150mm; 2D Code: 50mm)	
		10 mil (1D Code: 50mm-300mm; 2D Code: 50mm-150mm)	
Wireless communication distance		85m (empty range)	-
Light source		Red light, blue light	
Aiming device		Red Cross Laser	
Communication method		WiFi4(2.4GHz)	Optional USB/Network/Serial Output Cables
Power supply		Battery powered	5-24VDC
Charging method		Wireless Charging	-
Battery capacity		4500 mA	-
Charging time		2 hours (Adapter Charging)	-
Maximum power consumption		Operating Mode: 4.8W@ 4VDC; Standby Mode: 20W@ 4VDC; Sleep Mode: 0.05W@ 4VDC	12W
Number of scans per full charge		100,000+	-
Temperature		Operating temperature: -10 °C ~ 50 °C; Storage temperature :-20 °C ~ 70 °C	
Humidity		< 85%RH (non-condensing)	
Dimensions		205.5 mm×73 mm×92 mm	
Weight		379 g	329 g
Drop height		1.5m	
Protection level		IP62	
Certified product		CE,ROHS	

Product Model and Parameters

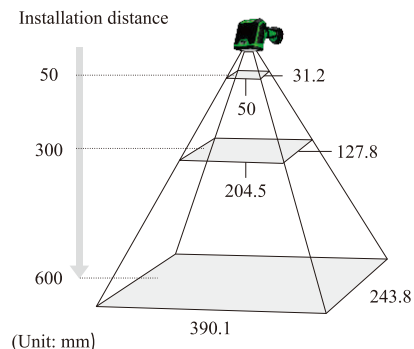
Model	Transmission mode	Sensor type	Resolution	Pixel size	Sensor size	Exposure time	Gain	Maximum processing frame rate	Lens focal length
OPT-IDF1-10L06-20	wireless	CMOS, Global Shutter	1280×800	3.0 μm×3.0 μm	1/4"	20 μs ~ 1 sec	1 dB ~16 dB	50 fps	6.2 mm
OPT-IDF1-23L08-20			1920×1200		1/2.6"	6 μs ~ 1 sec		40 fps	8.5 mm
OPT-IDF1-10L06-10	wired		1280×800		1/4"	20 μs ~ 1 sec		50 fps	6.2 mm
OPT-IDF1-23L08-10			1920×1200		1/2.6"	6 μs ~ 1 sec		40 fps	8.5 mm

Communication base parameters:

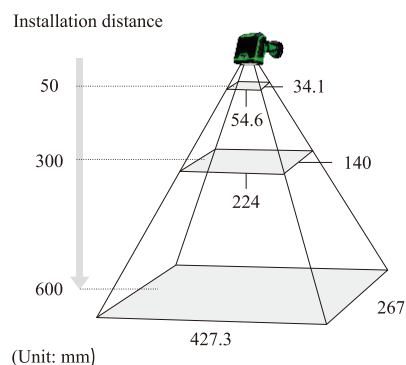
Model	OPT-IDF1-W17
Communication mode	UDP, TCP, Serial, HTTP, Modbus, Profinet, Ethernet/IP Communication, Virtual Keyboard
Communication output interface	1 road USB2.0, 1 RS232, 1Fastethernet (100Mbit/s)
Control the output interface	1 Light coupling isolation control input, 3 road light coupling isolation control output
Power supply	9 VDC
Dimensions	112 mm×83.9 mm×62.3 mm
Weight	176 g
Protection level	IP62
Certified product	CE,ROHS

FOV

OPT-IDF1-10L06					
Lens focal length	Working distance (mm)	View(mm)		Minimum recognition accuracy(mm)	
		Horizontal	Vertical	QR code	One-dimensional code
6mm	50	50.0	31.2	0.156	0.078
	100	80.9	50.5	0.253	0.126
	200	142.7	89.2	0.446	0.223
	300	204.5	127.8	0.639	0.320
	400	266.4	166.5	0.833	0.416
	500	328.2	205.1	1.026	0.513
	600	390.1	243.8	1.219	0.610



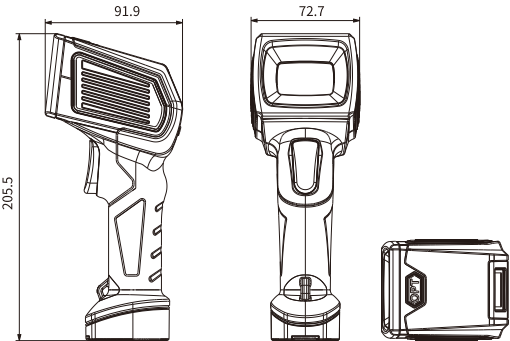
OPT-IDF1-23L08					
Lens focal length	Working distance (mm)	View(mm)		Minimum recognition accuracy(mm)	
		Horizontal	Vertical	QR code	One-dimensional code
8mm	50	54.6	34.1	0.114	0.057
	100	88.4	55.3	0.184	0.092
	200	156.2	97.6	0.325	0.163
	300	224.0	140.0	0.467	0.233
	400	291.7	182.3	0.608	0.304
	500	359.5	224.7	0.749	0.374
	600	427.3	267.0	0.890	0.445



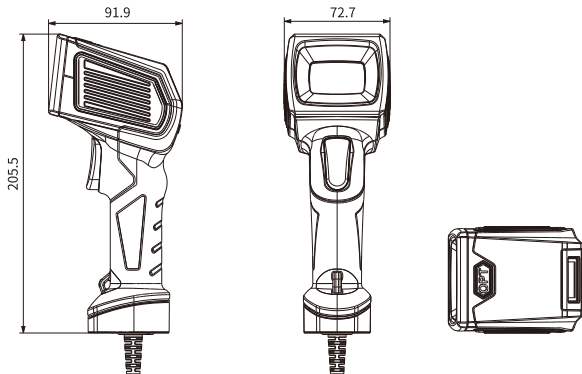
Dimensions (mm)

F1 wireless series

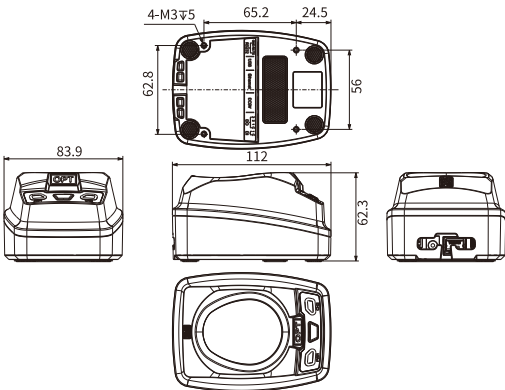
Scanning gun



F1 wired series



Communication base



Matching Cables

Accessory cable

Cable length	F1 Series universal cable				
	Static straight-head IO cable				
1.8M	CB-RJ48-M004-S1.8M	CB-RJ48-M001-S1.8M	CB-RJ48-M003-S1.8M	CB-RJ48-M005-S1.8M	CB-RJ48-M006-S1.8M
3M	CB-RJ48-M004-S3M	CB-RJ48-M001-S3M	CB-RJ48-M003-S3M	CB-RJ48-M005-S3M	CB-RJ48-M006-S3M
Interface					

