

K1 Series



Product Features

- Use high-sensitivity sensor to fulfill excellent image quality with high scanning rate.
- Support different IO interfaces and input & output at complex situations.
- Built-in deep learning algorithm elevates the efficiency in reading all kinds of 1D and 2D codes.
- The integrated light source on the coderreader can be controlled independently.
- Support TCP/IP, Serial, FTP, HTTP, and other common communication protocols.
- The autofocus lens can automatically perform the focusing which ease the adjustment process.

External Structure

Light Source

8 LED under lens hood to enhance illumination. May choose between wide-angle / spotlight illumination with colour selection in Red, Blue or White; 4 segments (upper, lower, left, right), each can be controlled individually

PWR Indicator

Power indicator, when the device is powered up normally, blue light will be light up.

LNK Indicator

Network connection indicator, when the device uses the network for normal transmission, green indicator will light up.

ACT Indicator

Network transmission indicator, as when the device uses the network for transmission under normal conditions, the indicator will flash in yellow. The flashing speed is according to the speed of data transmission.

Lens Cover

Transparent lens hood, detachable and upgradable with polarized lens.

Ethernet

Gigabit Ethernet port for data transmission.

Power & I/O

Power supply, I/O and serial port.

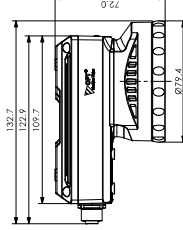
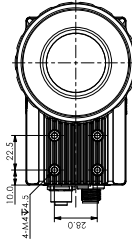


Technical Parameters

Model	OPT-IDK1-16	OPT-IDK1-60	OPT-IDK1-120
Sensor Type	CMOS, Global shutter	CMOS, Rolling shutter	CMOS, Global shutter
Pixel Size	3.45 μm×3.45 μm	2.4 μm×2.4 μm	3.2 μm×3.2 μm
Image Circle	1/2.9"	1/1.8"	1"
Maximum Processing Frame Rate	60fps	30fps	28fps
Maximum Scanning Rate	90codes/sec		84 codes/sec
Exposure Time	16μs ~13sec		60μs ~15sec
Resolution	1408×1024	3072×2048	4096×3072
Power Gain	0dB ~ 40dB		0dB ~ 18dB
Light Source	White light, red light or blue light can be selected		
ID Code	Code39, Code93, Code128, Codabar, EAN8, EAN13, UPFCA, UPCE, ITF14, ITF25, Matrix25, MSI, China Post, Code11, etc		
2D Code	QR, DM, etc		
stacked code	PDF417, etc		
Data Interface	Gigabit Ethernet (1000Mbit/s)		
I/O	The 12-pin M12 connector supplying power and I/O: including optocoupler/isolated inputs x3, optocoupler isolated outputs x3, RS232 input x1, RS232 output x1		
Communication Protocol	SmartSDK, TCP Client, Serial, FTP, TCP Server, PROFINET, EtherNet/IP, MELSEC, Firs, ModBus, SLMIP		
Power Supply (Voltage)	24VDC		
Power Consumption	< 48W@24VDC (Enable built-in fill light)		
Ambient Temperature	Working temperature 0~50°C, storage temperature -30~70°C		
Relative Humidity	20%~95%RH, non-condensing		
Lens Interface	M12-Mount, can be adjusted mechanically		
Lens cover	Transparent lens cover, polarizing lens cover can be purchased separately		
Protection Rating	IP65		
Weight	470g		

Dimensions (mm)

OPT-IDK1-16, OPT-IDK1-60



OPT-IDK1-C

