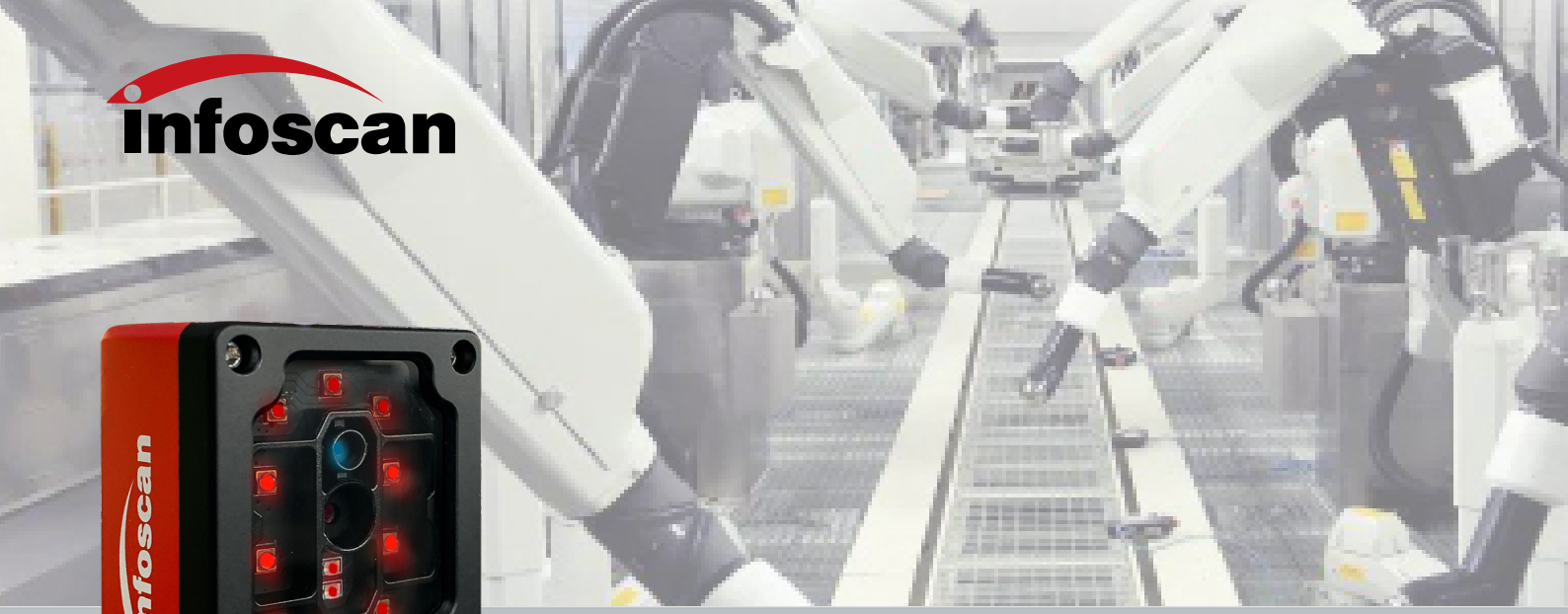


FV61/63L Series

Compact Industrial Barcode Scanner

infoscan FV61/63L series adopt rich light source combination and various lens configurations as well as built-in image processing and DPM algorithm with excellent DPM code reading ability and good dynamic code reading performance. It is an appropriate choice for various applications of industrial manufacturing.

Product Features

■ Code reading performance is excellent

Built-in rich image processing technology enables quickly decoding of paper/engraving/spray code and other barcodes, even the slightly stained or distorted barcodes. Fully suitable for various applications.

■ Automatic optical focusing (FV63L)

Micro-drive technology is used to achieve automatic optical focusing at different reading distances, so the installation position is no longer a problem.

■ Industrial grade design

The design of IP65/aviation connector/anti-drag cable can adapt to harsh working environment.
Compatible with mainstream communication mode and industrial bus protocol, convenient for supporting integrated communication with industrial automation equipment.

■ Powerful optical configuration

In this compact device, a variety of lighting combinations are built-in, which can provide the best lighting scheme for different coding modes.

Industry—oriented

- Automated production line integration
- Laser/spray code and other code matching
- Robot
- Integration of test instruments
- Automation equipment integration

Technical specifications

Sensor type	1/4 inch CMOS sensor, global shutter
Sensor resolution	1280x800
Acquisition speed	Up to 72 FPS
Trigger mode	Command trigger; I/O trigger; Continuous reading mode; Key trigger
I/O type	2 isolated inputs; 2 isolated outputs
LED indicator	4 LED indicators (power, reading success, reading failure, etc.)
Illumination source	Combined light source/polarized light source/highlight light source; white/red LED light source
Focus mode	FV61: Fixed focus, FV63L: Autofocus
Lens focal length	FV61: 4mm , FV63L: 6mm
Viewing angle	FV61: 48° (horizontal), FV63L: 34° (horizontal)
Aiming mode	Laser aiming
Communication interface	Ethernet, RS232, USB (simulated serial port, simulated keyboard) (Note 1)
communication protocol	RS232, TCP/IP , Profinet, Modbus TCP, EtherNet/IP
Operating voltage	5VDC/24VDC
Power consumption	2.5W (standby); 11.5W (peak); 4W (average) (Note 2)
Shell material	Aluminum alloy
Weight	130 g
Product size	57mmx42mmx28.5mm (L x W x H)
Operating temperature	-10 ~ 50 ℃
Storage temperature	-20 ~ 70 ℃
IP rating	IP65
Certification	CE、RoHS
Supported code systems and characters	Readable 1D, 2D and stacking codes in accordance with national and international standards
Highest reading accuracy	1D bar code: 1.8 mil / 2D bar code: 3 mil (FV63L series)

Reading distance and visual field

Density/Code system	FV61 series (4mm)		FV63L series (6mm)	
	Nearest	Farthest	Nearest	Farthest
3.34mil Code 128	45	122	45	160
5mil Code 128	40	170	40	240
6.67mil Code 128	28	220	40	330
10mil Code 128	28	260	35	490
15mil Code 128	35	339	45	730
20mil Code 128	45	430	55	930
3.34mil DataMatrix 10bit	NA	NA	60	100
5mil DataMatrix 10bit	57	85	50	105
6.67mil DataMatrix 10bit	40	115	43	170
10mil DataMatrix 10bit	32	188	40	255
15mil DataMatrix 10bit	30	230	35	375
20mil DataMatrix 10bit	30	312	40	480

Reading distance	FV61 series (4mm)		FV63L series (6mm)	
	X-axis field of view	Y-axis field of view	X-axis field of view	Y-axis field of view
50	43	27	31	22
100	91	57	66	42
150	128	81	99	63
200	174	110	133	82
300	251	163	203	128

(Unit: mm)

Note 1: USB communication mode can be achieved in specified model and with 5V power supply;

Note 2: The value are measured when the operating voltage is 24VDC and without external load.

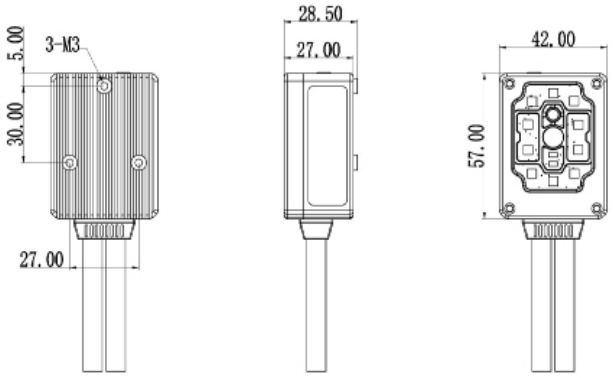
Standard models configuration table

FV61	FV61-2100	1280*800 pixel\ white bright light\ fixed-focus\ standard field of view\ serial port+ethernet
	FV61-2210	1280*800 pixel\ red polarized light\ fixed-focus\ standard field of view\ serial port+ethernet
	FV61-2200	1280*800 pixel\ white polarized light\ fixed-focus\ standard field of view\ serial port+ethernet

FV61	FV61-2310	1280*800 pixel\ red combined light\ fixed-focus\ standard field of view\ serial port+ethernet
	FV61-2300	1280*800 pixel\ white combined light\ fixed-focus\ standard field of view\ serial port+ethernet
	FV61(U)-2210	1280*800 pixel\ red polarized light\ fixed-focus\ standard field of view\ USB+ethernet\ 5V power supply
	FV61(U)-2310	1280*800 pixel\ red combined light\ fixed-focus\ standard field of view\ USB+ethernet\5V power supply
	FV61(U)-2300	1280*800 pixel\ white combined light\ fixed-focus\ standard field of view\ USB+ethernet\ 5V power supply
FV63L	FV63L-2110	1280*800 pixel\ red bright light\ auto-focus\ narrow field of view\ serial port+ethernet
	FV63L-2100	1280*800 pixel\ white bright light\ auto-focus\ narrow field of view\ serial port+ethernet
	FV63L-2210	1280*800 pixel\ red polarized light\ fixed-focus\ narrow field of view\ serial port+ethernet
	FV63L-2200	1280*800 pixel\ white polarized light\ fixed-focus\ narrow field of view\ serial port+ethernet
	FV63L-2310	1280*800 pixel\ red combined light\ auto-focus\ narrow field of view\ serial port+ethernet
	FV63L-2300	1280*800 pixel\ white combined light\ auto-focus\ narrow field of view\ serial port+ethernet
	FV63L(U)-2210	1280*800 pixel\ red polarized light\ auto-focus\ narrow field of view\ USB+ethernet\ 5V power supply
	FV63L(U)-2200	1280*800 pixel\ white polarized light\ auto-focus\ narrow field of view\ USB+ethernet\ 5V power supply
	FV63L(U)-2310	1280*800 pixel\ red combined light\ auto-focus\ narrow field of view\ USB+ethernet\ 5V power supply
	FV63L(U)-2300	1280*800 pixel\ white combined light\ auto-focus\ narrow field of view\ USB+ethernet\ 5V power supply

Dimensions

(Unit: mm)



CE RoHS