



Lector64x/Lector65x

1D, 2D and DPM code identification using a camera – detects diverse, far away objects

SICK
Sensor Intelligence.



Technical data overview

Focus	Adjustable focus / dynamic focus control (depends on variant)
Sensor type	CMOS monochrome
Sensor resolution	1,600 px x 1,088 px (1.7 Mpixel) 2,048 px x 1,088 px (2.1 Mpixel) 2,048 px x 2,048 px (4.2 Mpixel)
Scanning frequency	40 Hz / 70 Hz (depends on variant)
Enclosure rating	IP65
Exchangeable lens and illumination	✓ / - (depends on variant)
Ethernet	✓ / TCP/IP / TCP/IP / ✓ / TCP/IP (depends on variant)
EtherNet/IP™	✓
Serial	✓, RS-232, RS-422
CAN	✓
PROFIBUS DP	✓, optional over external fieldbus module
PROFINET	✓
Weight	635 g / 963 g (depends on variant)

Product description

High performance and optimized throughput: The Lector64x/Lector65x image-based code reader from SICK stands up to the challenges of logistics and factory automation. Thanks to its 40 Hz frame repetition rate and real-time decoding, it reliably identifies 1D, 2D, and directly marked codes at the highest possible speed. An image resolution of 2/4 megapixels gives it a large field of view. In combination with its dynamic focus, the high levels of flexibility are achieved for code positioning, object height, and transport speed. The intuitive device equipment – featuring function buttons, auto-setup, aiming laser, an acoustic feedback signal, and a green feedback LED – reduces the amount of work required for training and installation. The microSD memory card can be used to store images or backup copies of parameters. Thanks to SICK's 4Dpro feature, the Lector64x/Lector65x can be integrated into numerous industrial networks.

At a glance

- 2/4 megapixel resolution; high frame repetition rate of 40 Hz
- Dynamic focus adjustment from object to object
- Integrated high-power LED illumination
- Function buttons, aiming laser, optical and acoustic feedback signal
- Intelligent, rapid decoding algorithms

Your benefits

- Highly flexible code position, object height and transport speed thanks to large field of view and great depth of field
- Cost-effective, straightforward, modular integration of multiple devices, adapted to the width of the conveyor belt
- Minimum training and installation work thanks to intuitive device equipment featuring function buttons, auto-setup, integrated illumination, aiming laser, acoustic feedback signal, and green feedback LED
- Intelligent decoding algorithms for maximum reading performance and high package throughput, even with codes that are difficult to read
- 4Dpro facilitates quick and easy integration into numerous industrial networks

Fields of application

- Material handling in automated sorting systems used by courier, express, postal service providers and in retail
- Presentation camera for manual package sorting
- Tire identification
- Aggregation of food and pharmaceutical packaging
- Identification of codes and tracking serial numbers and manufacturing dates in pharmaceutical distribution applications

Ordering information

Other models and accessories → www.sick.com/Lector64x_Lector65x

- **Variant:** main unit
- **Optical focus:** adjustable focus (manual)
- **Note:** Additional accessories may be necessary for some communication interfaces (details available online)

Sensor resolution	Communication interface	Type	Part no.
1,600 px x 1,088 px (1.7 Mpixel)	Ethernet, EtherNet/IP™, Serial, CAN, PROFIBUS DP, PROFINET	V2D642D-MCXXA6	1082399
		V2D642R-MCXXA6	1070119
		V2D642R-MCXXH6	1071472
2,048 px x 1,088 px (2.1 Mpixel)	Ethernet, EtherNet/IP™, CAN	V2D652R-MCXXF6 for Systems	1071728
	Ethernet, PROFINET, EtherNet/IP™, Serial, CAN, PROFIBUS DP	V2D652R-MCXXA6	1063404
		V2D652R-MCXXH6	1075975
2,048 px x 2,048 px (4.2 Mpixel)	Ethernet, EtherNet/IP™, CAN, PROFINET	V2D654R-MCXXF6 for Systems	1068496
	Ethernet, PROFINET, EtherNet/IP™, Serial, CAN, PROFIBUS DP	V2D654D-MCXXA6	1082400
		V2D654R-MCXXA6	1060892
		V2D654R-MCXXH6	1083896

- **Variant:** Complete device
- **Optical focus:** dynamic focus control
- **Note:** Additional accessories may be necessary for some communication interfaces (details available online)

Sensor resolution	Illumination color	Focal length	Communica- tion interface	Type	Part no.
2,048 px x 1,088 px (2.1 Mpixel)	White	40 mm	Ethernet, PROFINET, EtherNet/IP™, Serial, CAN, PROFIBUS DP	V2D652R-MEWKA6	1068681
				V2D652R-MEWKF6 for Systems	1081534
		54 mm	Ethernet, Ether- Net/IP™, CAN	V2D652R-MEWHF6 for Systems	1071727
				Ethernet, PROFINET, EtherNet/IP™, Serial, CAN, PROFIBUS DP	V2D652D-MEWA6S50
	Blue	40 mm			V2D652R-MEWA6
				V2D652R-MEBA6	1072317
2,048 px x 2,048 px (4.2 Mpixel)	White	40 mm	Ethernet, Eth- erNet/IP™, CAN, PROFINET	V2D654R-MEWKF6 for Systems	1081535
				V2D654R-MEWA6	1068680
		54 mm	Ethernet, Eth- erNet/IP™, CAN, PROFINET	V2D654R-MEWHF6 for Systems	1063229
				V2D654R-MEWA6	1060893
	Blue	40 mm	Ethernet, PROFINET, EtherNet/IP™, Serial, CAN, PROFIBUS DP	V2D654R-MEBA6	1072316
				54 mm	Ethernet, Eth- erNet/IP™, CAN, PROFINET

- **Variant:** Complete device
- **Optical focus:** adjustable focus (manual)
- **Communication interface:** Ethernet, PROFINET, EtherNet/IP™, Serial, CAN, PROFIBUS DP
- **Note:** Additional accessories may be necessary for some communication interfaces (details available online)

Sensor resolution	Illumination color	Focal length	Type	Part no.
2,048 px x 1,088 px (2.1 Mpixel)	Blue	50 mm	V2D652R-MCBGA6	1144192
2,048 px x 2,048 px (4.2 Mpixel)	White	35 mm	V2D654R-MCWFA6S50	1107410
			V2D654R-MCWFH6	1099060

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com