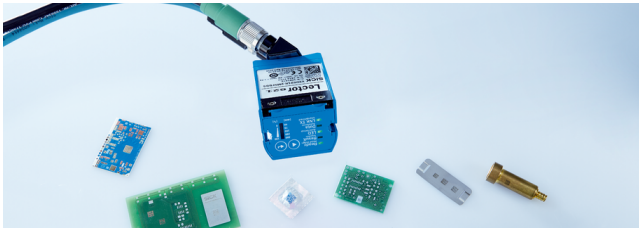# Lector62x

1D, 2D and DPM code identification using a compact camera –
suitable for small codes

SICK
Sensor Intelligence.
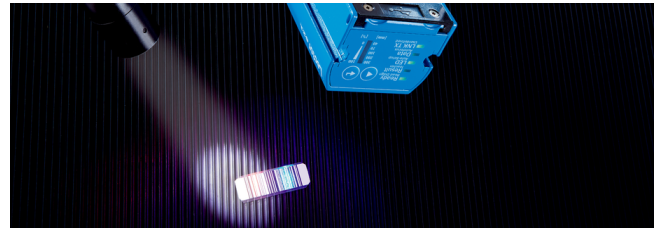
Advantages

Nothing passes by it unnoticed

high-performance decoder
Identifies all kinds of different codes, even in environments with low contrast, reflective surfaces, or contamination

highly resistant to ambient light
Stable reading in all installation positions – even in changing light conditions

+ The Lector62x delivers reliable decoding, even under challenging conditions, and ensures high throughput rates in your application.
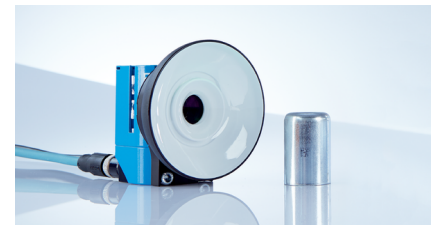
Puts any code into perspective

always the right color
Two red and two blue LEDs ensure ideal illumination that is geared to the needs of the application

always well-filtered
The polarizing filter ensures reliable reading on even highly reflective surfaces

always the ideal illumination
Reliable identification of codes on curved and shiny surfaces, thanks to the dome attachment

+ The powerful illumination concept of the Lector62x can be adapted to suit the individual conditions at the site. Different illumination colors enable the reading field to be illuminated uniformly – ensuring optimum performance in any application. The correct lighting accessories allow reliable code reading even under difficult ambient conditions.

Always useful

exceptionally easy
Setup wizard with auto focus, aiming laser, and green feedback LED makes commissioning and handling easy

no worries about space
The compact design, featuring a swivel connector, ensures easy integration even if installation space is tight

stored
The microSD card for storing images and backup copies of parameters ensures convenient analysis and short machine downtimes during replacement work

innovative data handling
Thanks to comprehensive sorting, filtering, and output formatting, the read results are transferred to the controller in the desired format, cutting down on the amount of programming work required

➕ **With setup aids provided, plus a flexible design, intelligent cloning concept, and innovative data handling, very little work is required during commissioning or when replacing the device.**
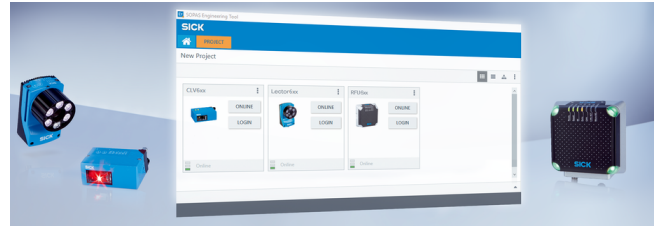
4Dpro – THE FLEXIBILITY YOU NEED

The sensor manufacturer SICK offers a broad portfolio of identification and vision solutions which are developed and produced in-house. Whichever solution you choose today, you can be sure of a flexible future with the 4Dpro concept. All 4Dpro sensors are compatible and interchangeable with one another. Standardized connectivity, a standardized user interface, and a standardized accessory concept – we call this unique combination 4Dpro.

standardized connectivity
All 4Dpro sensors feature the same modular connectivity. This provides the basis for a flexible fieldbus link combined with high process reliability. What's more, you benefit twice over: the purchase order process is less complicated and integration is quicker and easier.

standardized user interface
All 4Dpro sensors use SICK's universal device configuration software. This means that you can quickly familiarize yourself with all technologies. Data is sent to the control in the required format and the inputs and outputs of the 4Dpro sensors can be analyzed quickly by an event monitor.

➕ **Investment security, easy commissioning, low level of training required, fast and flexible exchange, even when switching between different identification technologies.**

SICK LifeTime Services

SICK's services increase machine and plant productivity, enhance the safety of people all over the world, provide a solid foundation for a sustainable business operation, and protect investment goods. In addition to its usual consulting services, SICK provides direct on-site support during the conceptual design and commissioning phases as well as during operation.

The range of services not only covers aspects like maintenance and inspection, but also includes performance checks as well as upgrades and retrofits. Modular or customized service contracts extend the service life of plants and therefore increase their availability. If faults occur or limit values are exceeded, these are detected at all times by the corresponding sensors and systems.

Consulting and design
Application-specific advice on the product, its integration and the application itself.

commissioning and maintenance
Application-optimized and sustainable — thanks to professional commissioning and maintenance by a trained SICK service technician.

service contracts
Extended warranty, SICK Remote Service, 24-hour helpdesk, maintenance, availability guarantees and other modular components can be individually combined on request.

Technical data overview

Focus	Teach auto focus / Adjustable focus (electric) (depending on type)
Sensor resolution	1,280 px x 1,024 px
Scanning frequency	50 Hz / 25 Hz (depending on type)
Reading distance	70 mm ... 1,500 mm (depending on type)
Enclosure rating	IP65
Ethernet	✓, TCP/IP
PROFINET	✓ / ✓, optional over external fieldbus module (depending on type)
EtherNet/IP™	✓
EtherCAT	✓, optional over external fieldbus module
Serial	✓, RS-232, RS-422
CAN	✓
CANopen	✓
PROFIBUS DP	✓, optional over external fieldbus module
Weight	170 g

Product description

The Lector62x is a compact image-based code reader for the reliable detection of 1D, 2D, and stacked codes as well as plain text. Its high-performance DPM decoder can read even lasered or dot-peened codes perfectly – even in the case of low contrast levels, contamination, or poor code quality. Thanks to the powerful illumination concept with bi-color LEDs, the Lector62x is particularly immune to ambient light. This ensures reliable code reading even in changing light conditions. The compact housing with swivel connector makes it the ideal code reader for production lines where space is tight.

At a glance

- High performance DPM decoder
- Immune to ambient light
- Powerful LEDs in red, blue, infrared
- Extensive optical accessories such as polarizing filter or dome attachment
- Setup wizard with auto focus, aiming laser, green feedback LED
- Innovative data handling with sorting, filtering, and output formatting functions

Your benefits

- Intelligent decoding algorithms for high throughput, even with highly reflective or contaminated codes
- Variable illumination concept and optical accessories ensure reliable reading even in changing light conditions and on reflective surfaces
- Automated setup wizard makes commissioning faster and more cost-effective
- Short downtime when devices are replaced thanks to parameter backup on MicroSD card
- Programming is quick and easy since read results can be transmitted to the control system in the desired format
- Stable reading performance even at −35 °C thanks to cold storage device variants

Fields of application

- Automotive industry: production control and traceability of devices
- Consumer goods industry: date code inspection, serialization, and package content monitoring
- Storage and conveyor systems: tote identification
- Electronics and solar industries: PCB, glass, and wafer identification
- Cold storage

Ordering information

Other models and accessories ➜ www.sick.com/Lector62x

- **Readable code structures:** 1D codes, Stacked, 2D codes
- **Sensor resolution:** 1,280 px x 1,024 px
- **Illumination:** integrated
- **Note:** Additional accessories may be necessary for some communication interfaces (details available online)

Optical focus	Illumination color	Lens	Cold storage applications	Type	Part no.
Adjustable focus (electric)	Red	Integrated, 9.6 mm	–	V2D621R-2MREBE5	1132935
				V2D621R-2MRLBE5	1085378
Teach auto focus	Red Blue	Integrated, 17.1 mm	✓	V2D621R-2MCFFB6	1125188
			–	V2D621R-2MSFFB5	1085375
		Integrated, 9.6 mm	✓	V2D621R-2MCFBB6	1125187
			–	V2D621R-2MSFBB5	1085372

- **Readable code structures:** 1D codes, Stacked, 2D codes, direct-marked codes, plain text
- **Sensor resolution:** 1,280 px x 1,024 px
- **Optical focus:** teach auto focus
- **Illumination:** integrated
- **Note:** Additional accessories may be necessary for some communication interfaces (details available online)

Illumination color	Lens	Type	Part no.
Red Blue	Integrated, 17.1 mm	V2D621D-2MSFFB5	1085376
	Integrated, 9.6 mm	V2D621D-2MSFBB5	1085373
Infrared	Integrated, 17.1 mm	V2D621D-2MDFGB5	1085377

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**

SICK AG | Waldkirch | Germany | www.sick.com

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