



CLV64x

Dynamic, multi-functional

FIXED MOUNT BAR CODE SCANNERS

SICK
Sensor Intelligence.



Technical data overview

Optical focus	Dynamic focus control
Aperture angle	≤ 50°
Scanning frequency	400 Hz ... 1,200 Hz
Code resolution	0.15 mm ... 1 mm (depending on type)
Reading distance	30 mm ... 840 mm (depending on type)
PROFINET	✓, optional over external fieldbus module / ✓ (depending on type)
EtherCAT	✓, optional over external fieldbus module
Serial	✓, RS-232, RS-422, RS-485
CAN	✓
CANopen	✓
PROFIBUS DP	✓, optional over external fieldbus module
DeviceNet™	✓, Optional, over external connection module
Ethernet	✓, TCP/IP
EtherNet/IP™	✓
Weight	250 g ... 1,230 g (depending on type)

Product description

The CLV64x bar code scanners offer dynamic focus adjustment extending the range of the scanner for those applications where fixed focus comes up short but autofocus is outside the budget. Newly improved SMART algorithms in the CLV64x are superior when reading damaged and tilted codes.

Combine single line, raster, oscillating mirror, high density and low contrast variants with exceptional reading performance and flexible data handling capabilities, and you have all the ingredients for solving high-performance applications in the material handling and logistics markets. Variants include line, raster, side reading window and oscillating mirror versions; available with Ethernet.

At a glance

- Dynamic focus adjustment enables extended depth of field
- Integrated function buttons, e. g., for starting auto setup or reading quality evaluation
- CAN, Ethernet TCP/IP, PROFINET, and EtherNet/IP on board. No additional Ethernet gateway required (for “Ethernet” connection type)
- Enhanced SMART code reconstruction technology
- Flexible sorting, filtering, and logical functions
- Advanced, easy-to-use SOPAS configuration software
- Integrated LED bar graph
- Advanced remote diagnostics and network monitoring capabilities available over Ethernet

Your benefits

- Economical, as only one CLV64x is required for all focus positions
- Intelligent auto setup and multi-function pushbuttons save time during commissioning
- Teach-in of match code possible via the pushbuttons
- Easily execute firmware updates using the microSD memory card: no need for a PC
- No supplementary Ethernet gateway required with Ethernet models – lowers costs
- Enhanced SMART technology reads damaged and partially obscured codes, increasing read rates
- Increased scanner intelligence enables sophisticated configuration of logical operations, reducing the control system programming effort. Data is then delivered in the desired format
- Real-time code identification even at very high conveyor speeds

Fields of application

- Food, beverages: bar code identification in packaging and repackaging processes and identification in washdown zones
- Aggregation of food and pharmaceutical packaging
- Warehouse conveyor technology: bar code identification of objects on pallets
- Medical technology: clinical analysis
- Identification of test tubes in transport racks

Ordering information

Other models and accessories → www.sick.com/CLV64x

- **Codes/data cards:** 1D codes
- **Version:** Standard Density
- **Optical focus:** dynamic focus control

Connection type	Reading field	Scanning method	Enclosure rating	Front screen	Light spot	Type	Part no.
Ethernet	Oscillating mirror	Line scanner	IP65	Glass	Circular	CLV640-6120	1042023
					Oval	CLV640-6120S01	1048449
		Plastic	Oval	CLV640-6121S01	1056544		
	Front	Line scanning	IP69K	Plastic	Circular	CLV640-0831S01	1064718
			IP65	Glass	Circular	CLV640-0120	1042015
		IP69K	Plastic	Circular	CLV640-6831S01	1063932	
		Raster scanning	IP65	Glass	Circular	CLV640-1120	1042017
		Side (105°)	Line scanning	IP65	Glass	Circular	CLV640-2120
Raster scanning			IP65	Glass	Circular	CLV640-3120	1042021
Cable	Oscillating mirror	Line scanner	IP65	Glass	Circular	CLV640-6000	1042022
	Front	Line scanning	IP65	Glass	Circular	CLV640-0000	1042014
		Raster scanning	IP65	Glass	Circular	CLV640-1000	1042016
	Side (105°)	Line scanning	IP65	Glass	Circular	CLV640-2000	1042018
		Raster scanning	IP65	Glass	Circular	CLV640-3000	1042020
					Oval	CLV640-3000S01	1063838

- **Codes/data cards:** 1D codes
- **Version:** High Density
- **Optical focus:** dynamic focus control
- **Scanning method:** Line scanning
- **Enclosure rating:** IP65
- **Front screen:** Glass
- **Light spot:** circular

Connection type	Reading field	Type	Part no.
Ethernet	Front	CLV642-0120	1044874
Cable	Front	CLV642-0000	1044873
	Side (105°)	CLV642-2000	1044875

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