# CLV65x

Always in auto focus

**FIXED MOUNT BAR CODE SCANNERS**

**SICK**
Sensor Intelligence.

## Technical data overview

| | |
|---|---|
| **Optical focus** | Auto focus |
| **Aperture angle** | ≤ 50° |
| **Scanning frequency** | 600 Hz ... 1,000 Hz |
| **Code resolution** | 0.25 mm ... 1 mm  (depending on type) (depending on type) |
| **Reading distance** | 125 mm ... 1,625 mm  (depending on type) (depending on type) |
| **PROFINET** | ✓, optional over external fieldbus module / ✓ (depending on type) (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 ... 520 g  (depending on type) (depending on type) |

## Product description

The CLV65x high-performance scanner with auto focus system identifies bar codes with different module widths of 0.25 mm through 1.0 mm and has an extremely high depth of field. Depending on module width, reading widths of up to 1,600 mm at a depth of field of 1,425 mm can be achieved. It combines high-performance reading with the further enhanced SMART code reconstruction system, a reading algorithm that can accurately detect and decode bar codes even if they are damaged, poorly printed, or partially covered. The entire product family is designed to be so flexible that almost any reading requirement and output format can be met perfectly. Diagnosis data such as reading rate statistics, scanner monitoring data, etc. can be called up via the integrated web server without the need for additional software.

This scanner, with integrated Ethernet and auto focus system, is the most compact in its class and is ideally suited for use in storage and conveyor systems. An oscillating mirror variant is also available.

## At a glance

- Huge depth of field due to auto focus
- 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
- Integrated web server for diagnostic data and network monitoring
- Advanced, easy-to-use SOPAS configuration software
- Integrated LED bar graph

## Your benefits

- Cost-effective, as auto focus means no variants or additional light barriers are required for focus adjustment
- Intelligent auto setup and multi-function pushbuttons save time during commissioning
- Easily execute firmware updates using the microSD memory card: no need for a PC
- 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
- Integrated web server provides remote diagnostics and monitoring; no additional software is required

## Fields of application

- CEP industry as well as retail and warehousing: Material handling in automated sorter systems
- Airports: independent bag drop by passengers
- Warehouse conveyor technology: bar code identification of pallet feet and objects on pallets
- Industrial trucks: bar code identification of goods and pallets

## Ordering information

Other models and accessories → www.sick.com/CLV65x

- **Optical focus:** Auto focus
- **Scanning method:** Line scanning
- **Enclosure rating:** IP65
- **Front screen:** Glass

| Connection type | Reading field | Heating | Type | Part no. |
|---|---|---|---|---|
| Ethernet | Oscillating mirror | ✓ | CLV650-6120F0 | 1053104 |
| | | – | CLV650-6120 | 1042125 |
| | | | CLV650-6120S52 | 1082894 |
| | | | CLV650-68300A | 1050848 |
| | | | CLV651-6120 | 1046560 |
| | | | CLV651-6120S52 | 1082895 |
| | | | CLV651-68300A | 1050849 |
| | Front | ✓ | CLV650-0120F0 | 1058893 |
| | | – | CLV650-0120 | 1042121 |
| | | | CLV650-08300A | 1050845 |
| | | | CLV651-0120 | 1046558 |
| | | | CLV651-08300A | 1050847 |
| | Front, with polarizing filter | – | CLV650-0120S01 | 1051957 |
| Cable | Oscillating mirror | ✓ | CLV650-6000F0 | 1052181 |
| | | – | CLV650-6000 | 1042124 |
| | | | CLV651-6000 | 1046559 |
| | Front | ✓ | CLV650-0000F0 | 1052180 |
| | | – | CLV650-0000 | 1041290 |
| | | | CLV651-0000 | 1046557 |

## 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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