



Bar code scanners  
CLV63x / CLV630 / Long Range

CLV630-2120



**Model Name** > [CLV630-2120](#)  
**Part No.** > [1041973](#)



**At a glance**

- Integrated pushbuttons for auto setup and reading diagnostics
- Integrated LED bar graph
- CAN, Ethernet TCP/IP, PROFINET, and EtherNet/IP available on board, no additional gateway needed (depending on variant)
- Enhanced SMART code reconstruction technology
- Flexible sorting, filtering, and logical functions
- Advanced, easy-to-use SOPAS configuration software
- High scanning frequency of up to 1,200 Hz
- Advanced remote diagnostics and network monitoring capabilities available over Ethernet

**Your benefits**

- 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 SD 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 decoding at very high speeds
- Increased reading reliability due to high-performance computing power and a high scanning frequency



**Features**

Version:	Long Range
Connection type:	Ethernet
Reading field:	Side (105 °)
Scanner design:	Line scanner
Focus:	Fixed focus
Light source:	Visible red light (655 nm)
MTBF:	40,000 h
Laser class:	2 (EN 60825-1 (A2:2001-03))
Field of view:	≤ 50 °

Scanning frequency:	400 Hz ... 1,200 Hz
Code resolution:	0.35 mm ... 1 mm
Reading distance (at code resolution):	44 mm ... 683 mm (1 mm)
Heating:	optional

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### Performance

Bar code types:	Interleaved 2 of 5, all current code types, Codabar, Code 128, Code 39, Code 93, EAN, EAN 128, GS1 DataBar, Pharmacode, UPC
Print ratio:	2:1 ... 3:1
No. of codes per scan:	1 ... 20 (Standard decoder) 1 ... 6 (SMART decoder)
No. of codes per reading interval:	1 ... 50 (auto-discriminating)
No. of characters per reading interval:	5,000 500 (for multiplexer function in CAN operation)
No. of multiple readings:	1 ... 99

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### Interfaces

Serial (RS-232, RS-422/485):	✓
Remark (Serial (RS-232, RS-422/485)):	AUX (only RS-232)
Function (Serial (RS-232, RS-422/485)):	Host, AUX
Data transmission rate (Serial (RS-232, RS-422/485)):	2,400 Baud ... 115 kBaud , AUX: 57.6 kBaud
Ethernet:	✓
Function (Ethernet):	Host, AUX
Protocol (Ethernet):	TCP/IP, EtherNet/IP, PROFINET
Data transmission rate (Ethernet):	10/100 Mbit
CAN bus:	✓
Function (CAN bus):	SICK CAN sensor network (Master/Slave, Multiplexer/Server)
Protocol (CAN bus):	CANopen, CSN (SICK CAN sensor network)
Data transmission rate (CAN bus):	20 kbit/s ... 1 Mbit/s
PROFIBUS:	-
Remark (PROFIBUS):	optional via external connection module (CDF)
PROFINET:	-
DeviceNet:	-
Remark (DeviceNet):	optional via external connection module (CDM + CMF)
Connector:	pivotal
Control elements:	2 buttons (choose and start/stop functions)
Memory card:	Micro SD card (flash card) 512 MB, optional
Switching inputs:	3 ("Sensor 1", 2 inputs via CMC600 in CDB620/CDM420)
Switching outputs:	2 (via CMC600 in CDB620/CDM420)
Reading pulse:	auto pulse, non-powered, "Sensor 1" switching input, serial interface
Optical indicators:	6 LEDs (Ready, Result, Laser, Data, CAN, LNK TX, Bar graph for displaying the reading rate percentage (10 LEDs))
Acoustic indicators:	Beeper/buzzer (can be switched off, can be allocated as a result status indication function)
EtherCAT:	-
Remark (EtherCAT):	optional via external connection module (CDF)

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### Mechanics/electronics

Electrical connection:	2 M12 cylindrical connectors (12-pin plug, 4-pin socket) on swivel connector
Operating voltage:	18 V DC ... 30 V DC
Power consumption:	5 W
Housing:	Die-cast aluminum



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