



## Bar code scanners CLV69x / CLV690-0/1 / Standard Density

CLV690-1000



**Model Name** > **CLV690-1000**  
**Part No.** > **1056601**

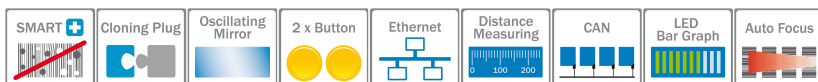


#### At a glance

- Advanced SMART+ code reconstruction technology
- New and flexible cloning plug technology
- CAN, Ethernet and serial communications available on board (dependent on cloning plug variant)
- Large depth of field due to real-time auto focus
- Consistent, user-friendly "SOPAS ET" software
- Built-in tracking without the use of an additional system controller
- Flexible sorting, filtering, and logical functions
- Integrated LED bar graph with pushbuttons

#### Your benefits

- Higher reading rate on damaged, heavily contaminated and partially damaged bar codes using the SMART+ algorithm
- Increased processing allows for faster and more accurate performance on demanding applications
- Fewer costs since no additional Ethernet gateway is required when using the Ethernet clone plug
- Time savings during commissioning thanks to integrated buttons and bar graph
- Increased scanner intelligence enables sophisticated configuration of logical operations, reducing the control system programming effort. Data is delivered in the desired format
- Cost savings since standard applications can be implemented without an additional system controller due to integrated tracking



#### Features

Version:	Standard Density
Connection type:	Depending on the cloning plug used
Reading field:	Oscillating mirror
Scanner design:	Line scanner
Focus:	Auto focus (alternative: dynamic focus control)
No. of distance configurations:	8
Focus adjustment time:	≤ 20 ms
Focus trigger source:	Data interface, Switching inputs
Light source:	Visible red light (660 nm)
MTBF:	100,000 h
Laser class:	2 (IEC 60825-1 (2007-3))

Field of view:	≤ 50 °
Code resolution:	0.25 mm ... 1 mm
Reading distance (at code resolution):	500 mm ... 2,100 mm (0.5 mm)
Oscillating mirror functions:	Fixed (adjustable position), One shot, Oscillating (variable or fixed amplitude)
Oscillation frequency:	0.5 Hz ... 4 Hz
Angle of deflection:	-20 ° ... 20 ° (can be adjusted via software)
Scanning frequency:	400 Hz ... 1,200 Hz

## Performance

Bar code types:	Interleaved 2 of 5, All current code types, Codabar, Code 128, Code 39, Code 93, GS1-128/EAN 128, Pharmacode, UPC/GTIN/EAN
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
No. of multiple readings:	1 ... 100

## Interfaces

Serial (RS-232, RS-422/485):	✓
Remark (Serial (RS-232, RS-422/485)):	Only with cloning plug D sub
Function (Serial (RS-232, RS-422/485)):	Host, AUX (only RS-232)
Data transmission rate (Serial (RS-232, RS-422/485)):	300 Baud ... 500 kBaud, AUX: 57.6 kBaud (RS-232)
Ethernet:	✓
Remark (Ethernet):	Only with cloning plug I/O Ethernet
Function (Ethernet):	Host, AUX
Protocol (Ethernet):	TCP/IP
Data transmission rate (Ethernet):	10/100 Mbit
CAN bus:	✓
Function (CAN bus):	SICK CAN sensor network (Master/Slave, Multiplexer)
Protocol (CAN bus):	CSN (SICK CAN Sensor Network)
Data transmission rate (CAN bus):	20 kbit/s ... 1 Mbit/s
PROFIBUS DP:	-
EtherCAT:	-
DeviceNet:	-
Connector:	Cloning plug exchangeable
Control elements:	2 buttons
Switching inputs:	6 ("Sensor 1" ... "Sensor 6")
Switching outputs:	4 ("Result 1" ... "Result 4")
Reading pulse:	Auto pulse, CAN, Switching inputs, Serial interface
Optical indicators:	6 LEDs (Ready, Result, laser, Data, CAN, LNK TX, Bar graph for displaying the reading rate percentage (10 LEDs))
Parameter storage:	Integrated in cloning plug

## Mechanics/electronics

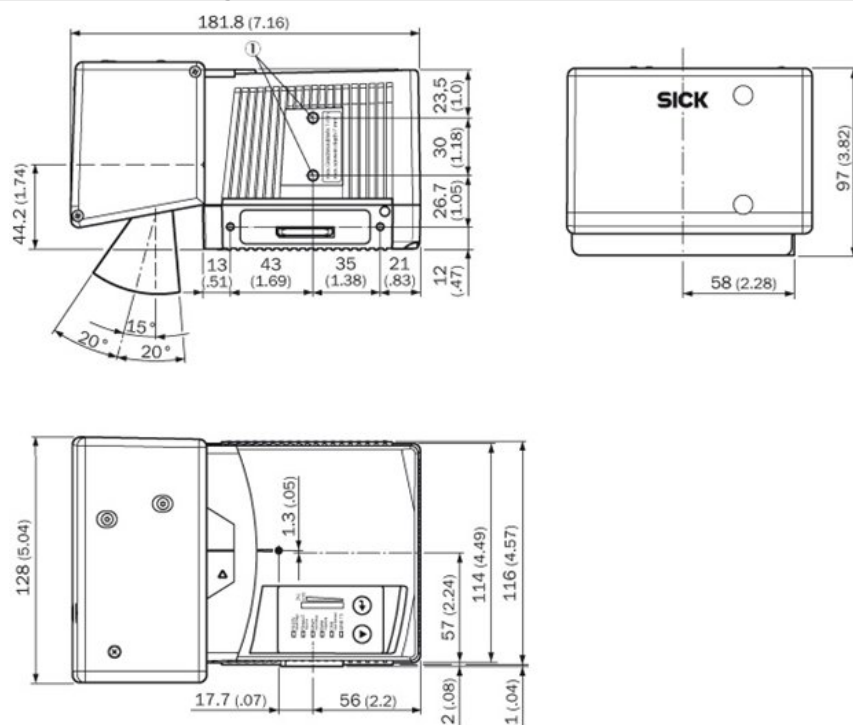
Electrical connection:	Depending on the cloning plug used
Operating voltage:	18 V DC ... 30 V DC
Power consumption:	17 W
Housing:	Die-cast aluminum, front lense made of glass
Housing color:	Light blue (RAL 5012)
Enclosure rating:	IP 65 (IEC 60529 (1989-11))
Protection class:	III (EN 60950-1 (2011-01))

Weight: 2,200 g  
Dimensions: 182 mm x 128 mm x 97 mm

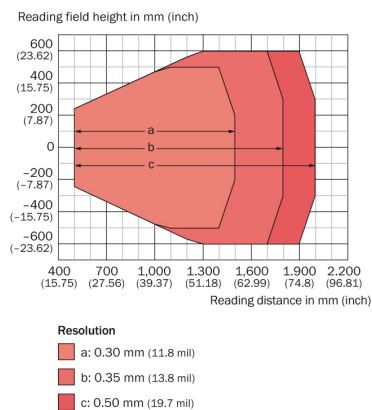
#### Ambient data

Vibration resistance: EN 60068-2-6 (2008-02)  
Shock resistance: EN 60068-2-27 (2009-05)  
Ambient operating temperature: 0 °C ... 40 °C  
Storage temperature: -20 °C ... 70 °C  
Permissible relative humidity: 90 %, non-condensing  
Ambient light safety: 2,000 lx, on bar code  
Electrical safety: EN 60950-1 (2006-01)/EN 60950-1/A11 (2009-03)/EN 60950-1/A1 (2010)

#### Dimensional drawing



#### Reading field diagram



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