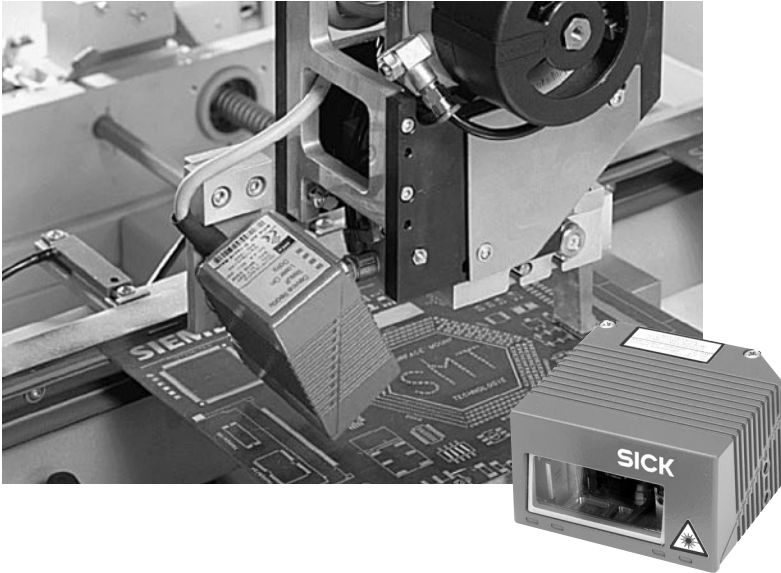


### CLV 420



#### FEATURES

- Ultra compact design (2.3 in x 2.5 in x 1.4 in)
- 400...1200 scans per second
- 2...14 in reading range
- Integrated CAN Bus interface
- Automatic triggering
- Integrated scanner and decoder
- Real-time diagnostics and decoding
- Match code capability (match, mismatch, no read outputs)
- All parameters software selectable
- Flexible input voltage (10...30 V DC)
- Die cast zinc housing (IP 65)

The CLV 420 fits in the palm of your hand, and at 400-1200 scans per second, it is the most powerful bar code scanner of its size. Its rugged zinc die cast housing, precision optics, and powerful electronics create a highly reliable system for industrial applications.

The CLV 420's compact design makes it ideal for limited space applications and its high-performance scan rate, real-time decoding, and integrated scanner and decoder make it an excellent solution in applications where high throughput is needed.

The CLV 420 is equipped with an integrated CAN Bus interface which allows for networking of scanners without the need for additional hardware.

In addition, SICK's automatic triggering technology allows the scanner to automatically sense a package to activate the bar code reading process.

The CLV 420 bar code scanner can be programmed using the Windows™-based CLV Setup Software package included with the bar code scanner. This user-friendly, unique, stand-alone

software program guides the user through complete scanner configuration.

All parameters, including minimum reading distance, bar code resolution, scan frequency, bar code label specifications, and data format are software selectable to optimize the performance of the scanner for your specific application.

The CLV 420 is ideal for material handling, document handling, packaging and electronics applications.

# CLV 420

## CLV 420 Technical Specifications

### CLV 420

Scanning Characteristics	
Scanning Method	8-sided polygon mirror wheel
Aperture Angle	50°
Scanning Frequency	400...1200 Hz (software selectable)
Light Source	Visible laser diode (670 nm); CDRH Class II
Reading Distance (Bar Code Dependent)	2.0...14.0 in (50...365 mm)
Resolution	0.008...0.040 in (0.20...1.0 mm)
Bar Code Types	
Bar Code Symbology	Code 39, Interleaved 2/5, Industrial 2/5, Codabar, Code 93, EAN/EAN 128, UPC, Code 128, Pharmacode
Readability	10 bar codes per reading gate
Auto Discrimination	3 different symbolologies per scan or reading gate
Communications / I/O / Indicators	
Host Interface	RS 232 and RS 422/485, variable data output format
Baud Rate	300...57,600 (software selectable)
Data Format	Data bits, stop bits, parity (software selectable)
Network Configuration	Pass-through; master/slave; RS 485 network, CAN Bus
LED Indicators	Device ready, result, laser on, data
Switching Inputs	2 x PNP, opto-decoupled, maximum 30 V DC
Switching Outputs	2 x PNP, maximum 100 mA / 24 V DC; Output 1, Output 2
Trigger Methods	Sensor input (I/O interface) / Serial (Host interface) / Free running / Reflector polling (automatic)
Mechanical / Electrical	
Supply Voltage	Operating voltage 10 V DC...30 V DC
Current Consumption	145 mA at 24 V DC / 3.5 W
Dimensions	Line/raster scanner: 2.3 x 2.5 x 1.4 in (59 x 63 x 35 mm); side emitting scanner: 2.8 x 2.5 x 1.4 in (72 x 63 x 35 mm)
Weight	Approx. 8.75 oz (250 g) including cable
Housing / Enclosure Rating	Die cast zinc / IP 65
Connectivity	15-pin male D-Sub high density cable, 3 ft (0.9 m) cable length
Environmental	
Ambient Operating Temperature	32...104°F (0...40°C)
Storage Temperature	-4...158°F (-20...70°C)
Vibration	To IEC 68-2-6 test FC
Shock	To IEC 68-2-27 test EA
EMV	To IEC 801
Maximum Relative Humidity	90%, non-condensing
Programming	
	Windows™-based CLV Setup Software

