



Automatic Identification Technology Barcode Reading Systems



SICK, competence in Automatic Identification Technology



The market for automatic identification systems is profiting from the general, global trend for automation in all industrial sectors.

Amongst a variety of different identification technologies the barcode technology offers tailor-made solutions for most applications and is established as a standard throughout the industry.

As one of the leading manufacturers of sensor equipment SICK is offering barcode readers for quick, reliable and economic manufacturing and handling processes in industry, wholesale and transportation.

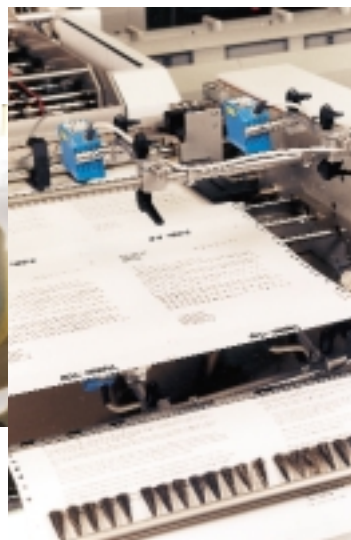
The product portfolio of fix-mount barcode readers starts with a super compact scanner for short reading distances and ends up with the high end identification system for omni-directional code capture in high speed conveyor installations.

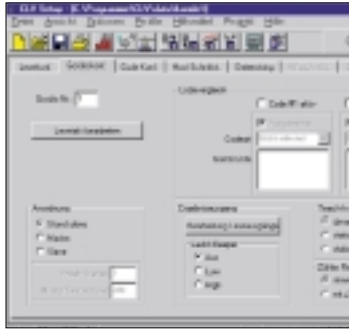
The barcode readers of SICK are supported by up-to-date software tools. Thanks to these tools the electrical installation as well as the final configuration of the reading system are easy to realise for any user.

The integration of Auto Ident equipment in various fieldbus systems is also easy to realise thanks to a modular bus connection module.

This product program is completed by a range of hand held readers, which are presented in a separate product overview.

The team of SICK, as the barcode experts do not only talk about innovation, we just do it. Use our experience and consulting competence to provide an efficient solution for your application.





CLV-Setup

Comfortable visualisation and control of the scanner parameters

Clearly structured software with tabbed control parameter pages

Print-out of profile barcode for easy adjustment of SICK barcode readers

Integrated terminal emulation for online communication monitoring

Quick parameter cloning for multiple scanners with identical configuration

Extensive help system

Automatic scanner type detection

Available on CD or as online download from the SICK homepage



CLV-Assistant

Software-guided input of application-relevant data, such as:

- Code orientation
- Conveyor speed
- Reading distance
- Code resolution ... etc.

Automatic generation of optimized scanner set-up parameters

Application-specific support for selection of the most suitable barcode reader

Available on CD or as online download from the SICK homepage



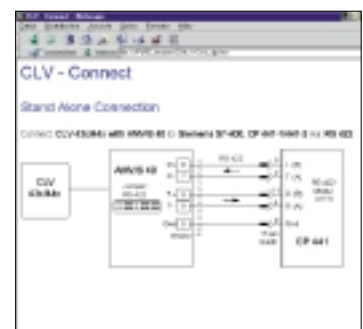
CLV-Connect

Software tool to create application-specific connection diagrams

Connection diagrams for:

- All CLV barcode readers
- All configurations (stand-alone, pass-through, ...)
- All SICK connection modules
- All SICK bus modules
- Many PLC types (S5, S7, ...)
- RS 232/422/485, networks

Available on CD or as online download from the SICK homepage





CLP 100

Miniature barcode reader

Front- or side-reading window versions

Integrated decoder for all standard barcode symbologies

Serial data interface RS 232

Best reading performance at short reading distances

Fast data capture thanks to high scan- and decoding-frequency

Reliable identification of high-density as well as low-density barcodes

Result output for Good Read or No Read signals

Easy parameter definition thanks to Windows-based set-up software



CLV 410

Complete product family for a wide range of applications:

- Standard distance version
- High-density version
- Short distance version

Reflector-polling for automatic triggering

Profile programming allows configuration via barcodes

AutoSetup functionality

Programmable integrated beeper

Power supply tolerates wide range of input voltage, 4.5 V ... 30 V DC

Compact, industrial housing



CLV 210

Quickly adjustable front- or side-reading window

Small, compact and slim housing

Proven in harsh industrial environment

Built-in real-time decoding

Additional terminal interface for monitoring of reading diagnosis data

Special data protocols available, i.e. Siemens 3964, RK 512

Line-, raster, ultra-high-density version available

Technical data

Reading range (mm)

Scanning frequency (Hz)

Dimensions (L/W/H)

CLP 100

30 ... 50

500

55/46/20

CLV 410

50 ... 400

200 ... 800

59/62.5/35.2

CLV 210

30 ... 270

200 ... 250

113/68/32





CLV 220

- Adjustable focus positions
- Extremely high scanning frequency for high-speed applications
- AutoSetup functionality
- Quickly adjustable front- or side-reading window
- Built-in real-time decoding
- Additional terminal interface for monitoring of reading diagnosis data
- Special data protocols available, i.e. Siemens 3964, RK 512
- Line-, raster version available



CLV 430

- Fixed focus (as set by SICK default)
- SMART**-Decoder – high first read rate even in case of damaged, tilted or dirty barcodes
- Reflector-polling for automatic triggering
- High scanning frequency
- Profile programming allows configuration via barcodes
- AutoSetup functionality
- Flexible power supply, 10 V ... 30 V DC
- Proven in harsh industrial environment
- Flash memory for easy software update
- Line-, raster-, oscillating mirror and high-density version available



CLV 440

- Dynamic focus control in real-time
- High depth-of-field even in case of small module width
- Profile programming allows configuration via barcodes
- AutoSetup functionality
- SMART**-Decoder – high first read rate even in case of damaged, tilted or dirty barcodes
- Flexible power supply, 10 V ... 30 V DC
- Proven in harsh industrial environment
- Flash memory for easy software update
- Line, oscillating mirror and high-density version available

Technical data

Reading range (mm)	50 ... 400
Scanning frequency (Hz)	200 ... 1200
Dimensions (L/W/H)	113/68/36

CLV 220

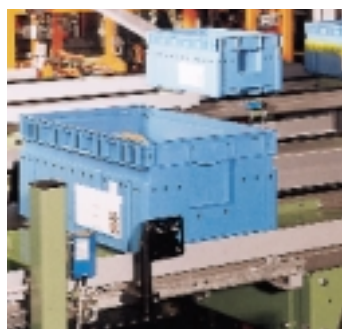
Reading range (mm)	50 ... 400
Scanning frequency (Hz)	200 ... 1200
Dimensions (L/W/H)	113/68/36

CLV 430

Reading range (mm)	50 ... 580
Scanning frequency (Hz)	300 ... 800
Dimensions (L/W/H)	90/60/35.7

CLV 440

Reading range (mm)	30 ... 840
Scanning frequency (Hz)	300 ... 800
Dimensions (L/W/H)	90/60/35.7





CLV 450

Compact scanner for long reading distance

Smallest unit of its class

Dynamic focus control leads to high depth-of-field even in case of small module width

SMART-Decoder – high first read rate even in case of damaged, tilted or dirty barcodes

AutoSetup functionality

Flexible power supply, 10 V ... 30 V DC

Proven in harsh industrial environment

Flash memory for easy software update

Line and oscillating mirror version available



CLV 280

Adjustable focus positions

High depth-of-field for each focus position

Built-in real-time decoding

Line, raster and oscillating mirror version available

Optional integrated heating for frozen-environment applications (min. ambient temperature: $-35\text{ }^{\circ}\text{C}$)



CLV 490

Extreme depth-of-field range through real-time AUTO FOCUS function

Smallest unit of its class

Large range for tolerable label tilt (-45° ... $+45^{\circ}$)

Memory plug for automatic parameter restore in case of scanner exchange

SMART-Decoder – high first read rate even in case of damaged, tilted or dirty barcodes

Available versions:

- Line
- Oscillating mirror
- High-density
- Low-density
- Integrated heating

Technical data

Reading range (mm)	200 ... 1600
Scanning frequency (Hz)	400 ... 1000
Dimensions (L/W/H)	90/60/35.7

CLV 450

Reading range (mm)	200 ... 1600
Scanning frequency (Hz)	400 ... 1000
Dimensions (L/W/H)	90/60/35.7

CLV 280

Reading range (mm)	150 ... 1450
Scanning frequency (Hz)	400 ... 800
Dimensions (L/W/H)	117/117/94

CLV 490

Reading range (mm)	500 ... 2100
Scanning frequency (Hz)	600 ... 1200
Dimensions (L/W/H)	117/117/94





CLX 490

Compact omnidirectional barcode reader

Smallest unit of its class

Extreme depth-of-field range through real-time AUTO FOCUS function

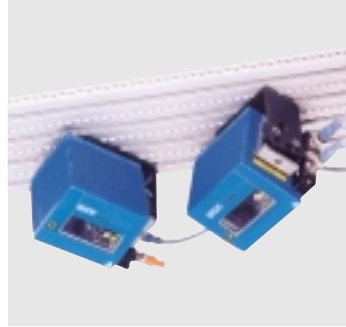
Small object gaps possible through integrated tracking function

Optional internal heating available

Usage as an omnidirectional side-scanner in combination with an OPS system

Memory plug for automatic parameter restore in case of scanner exchange

SMART-Decoder – high first read rate even in case of damaged, tilted or dirty barcodes



OPS

Omni Portal Scanner for omnidirectional barcode reading on up to 5 sides

Modular concept allows individual adaptation to a wide range of applications

Use of CLV 490 high-end barcode readers

Real-time AUTO FOCUS function without additional components

High operational reliability

Proven performance in world-wide reference sites

Optional data interfaces: Profibus, Interbus, TCP/IP



ALIS

Airport Luggage Identification System for automatic identification of IATA-barcode luggage-tags

Available for T-Code and L-Code

Flexible adaptation to all conveyor systems

High operation reliability

Comprehensive statistics monitoring functions

Excellent read rates due to **SMART** code recognition

Complete system package

Maintenance-free operation

Proven performance in world-wide reference sites

Optional data interfaces: Profibus, Interbus, TCP/IP

Technical data

Reading range (mm)

Scanning frequency (Hz)

Dimensions (L/W/H)

CLX 490

500 ... 1750

600 ... 1200

176/208/153

OPS

500 ... 2100

600 ... 1200

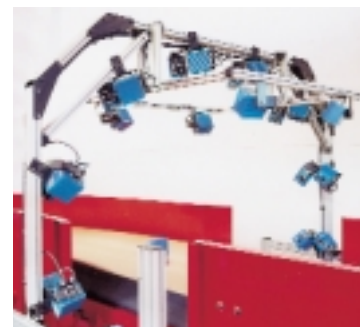
540/160/160

ALIS

500 ... 2100

600 ... 1200

1000/2400/1500



Interested? Copy, Fill In and Fax Back.

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Yes, I would like to know more about

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I am interested in a detailed consultation with one of your project consultants. Please arrange an appointment for me.

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