

Bar code scanners – fix mounted



CLP 100



CLV 410



CLV 420

Optical Features

- CCD scanner
- Fixed, pre-adjusted focus
- Best reading performance at short reading distances up to 50 mm

- Laser scanner
- Fixed, pre-adjusted focus

- Versions for various reading distances:
- CLV 410 – standard reading distance up to 370 mm
 - CLV 412 – reading distance up to 95 mm, HD bar codes
 - CLV 414 – short reading distance starting at 30 mm

- Laser scanner
- Fixed, pre-adjusted focus

- Versions for various reading distances:
- CLV 420 – standard reading distance up to 370 mm
 - CLV 421 – extended reading distance up to 730 mm
 - CLV 422 – short reading distance up to 200 mm, HD bar codes

- Line and raster scanner

- Line and raster scanner

Mechanical Features

- Miniature bar code reader
- Metal housing, IP 40
- Front or lateral reading window

- Compact, zinc die-cast housing suited for the use at industrial environment, IP 54
- Front or lateral reading window

- Compact, zinc die-cast housing suited for the use at industrial environment, IP 65
- Front or lateral reading window

Special Features

- Standard decoder
- Scanning frequency up to 500 Hz
- Realtime decoding
- Power supply 5 V DC
- 1 programmable digital input/output

- Standard decoder
- High scanning frequency up to 800 Hz
- Wide range of power supply 4.5 ... 30 V DC
- Programmable beeper
- 1 programmable digital input
- 3 programmable digital outputs

- Standard decoder
- Very high scanning frequency up to 1,200 Hz
- Wide range of power supply 10 ... 30 V DC
- Programmable beeper
- 2 programmable digital inputs/outputs
- Auxiliary interface for diagnosis of the reading performance

Operation Features

- Windows based CLP Setup Software, Host Command Configuration

- Easy to use due to Auto-Setup function, Profile Programming, Reflector Polling, CLV Setup Software, Host Command Configuration

- Easy to use due to Auto-Setup function, Profile Programming, Reflector Polling, CLV Setup Software, Host Command Configuration

Technical data	CLP 100	CLV 410	CLV 420
Reading range	30 ... 50 mm	30 ... 370 mm	50 ... 730 mm
Scanning frequency	500 Hz	200 ... 800 Hz	400 ... 1,200 Hz
Data interfaces	RS 232	RS 232, RS 422, RS 485 Opt.: Profibus, Interbus, Ethernet TCP/IP	RS 232, RS 422, RS 485 CANopen, SICK CAN Scanner Network Opt.: Profibus, Interbus, Ethernet TCP/IP
Dimensions (L/W/H)	55/46/20 mm	59/62.5/35.2 mm	59/62.5/35.2 mm



Bar code scanners – fix mounted



CLV 430

CLV 440

CLV 450

Optical Features

- Laser scanner
 - Fixed, pre-adjusted focus
- Versions for various reading distances:
- CLV 430 – standard reading distance up to 580 mm
 - CLV 431 – medium reading distance up to 440 mm
 - CLV 432 – short reading distance up to 260 mm
 - Line and raster scanner
 - Line scanner with oscillating mirror

- Laser scanner
 - Dynamic, adjustable focus control in realtime
- Versions for various reading distances:
- CLV 440 – standard reading distance up to 840 mm
 - CLV 442 – short reading distance up to 340 mm, HD bar codes
 - Line scanner
 - Line scanner with oscillating mirror

- Laser scanner
 - Dynamic, adjustable focus control in realtime
- Versions for various reading distances:
- CLV 450 – standard reading distance up to 1,600 mm
 - CLV 451 – extreme depth of field for each focus position
 - Line scanner
 - Line scanner with oscillating mirror

Mechanical Features

- Compact, zinc die-cast housing suited for the use at industrial environment, IP 65
- Front or lateral reading window

- Compact, zinc die-cast housing suited for the use at industrial environment, IP 65
- Front or lateral reading window

- Compact, zinc die-cast housing suited for the use at industrial environment, IP 65
- Front reading window

Special Features

- SMART Decoder – high read rates even in the case of damaged, tilted or dirty bar codes
- High scanning frequency up to 800 Hz
- Wide range of power supply 10 ... 30 V DC
- Programmable beeper
- 2 programmable digital inputs/outputs
- Auxiliary interface for diagnosis of the reading performance

- SMART Decoder – high read rates even in the case of damaged, tilted or dirty bar codes
- High scanning frequency up to 800 Hz
- Wide range of power supply 10 ... 30 V DC
- Programmable beeper
- 2 programmable digital inputs/outputs
- Auxiliary interface for diagnosis of the reading performance

- SMART Decoder – high read rates even in the case of damaged, tilted or dirty bar codes
- High scanning frequency up to 1,000 Hz
- Wide range of power supply 10 ... 30 V DC
- Programmable beeper
- 2 programmable digital inputs/outputs
- Auxiliary interface for diagnosis of the reading performance

Operation Features

- Easy to use due to Auto-Setup function, Profile Programming, Reflector Polling, CLV Setup Software, Host Command Configuration

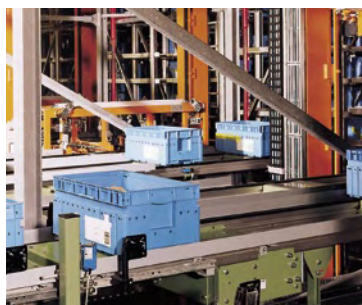
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- Easy to use due to Auto-Setup function, Profile Programming, CLV Setup Software, Host Command Configuration

Technical data	CLV 430
Reading range	50 ... 580 mm
Scanning frequency	300 ... 800 Hz
Data interfaces	RS 232, RS 422, RS 485 CANopen, SICK CAN Scanner Network Opt.: Profibus, Interbus, Ethernet TCP/IP
Dimensions (L/W/H)	90/60/35.7 mm

Technical data	CLV 440
Reading range	30 ... 840 mm
Scanning frequency	300 ... 800 Hz
Data interfaces	RS 232, RS 422, RS 485 CANopen, SICK CAN Scanner Network Opt.: Profibus, Interbus, Ethernet TCP/IP
Dimensions (L/W/H)	90/60/35.7 mm

Technical data	CLV 450
Reading range	200 ... 1,600 mm
Scanning frequency	400 ... 1,000 Hz
Data interfaces	RS 232, RS 422, RS 485 CANopen, SICK CAN Scanner Network Opt.: Profibus, Interbus, Ethernet TCP/IP
Dimensions (L/W/H)	90/60/35.7 mm



Bar code scanners – fix mounted



CLV 490



CLX 490



OPS 400

Optical Features

- Laser scanner
 - AUTO FOCUS function
 - Versions for various reading distances:
 - CLV 490 – standard reading distance up to 2,100 mm
 - CLV 490 – reading distance up to 1,600 mm, HD bar codes
 - Line scanner
 - Line scanner with oscillating mirror
- Omnidirectional laser scanner
 - AUTO FOCUS function
 - CLX 490 – standard reading distance up to 1,750 mm
 - 90° crossed scanning lines
- Omnidirectional laser scanner
 - AUTO FOCUS function
 - Versions for various reading distances:
 - OPS 400 – standard reading distance up to 2,000 mm
 - OPS 400 – High Density bar codes, reading distance up to 1,500 mm
 - 90° crossed scanning lines

Mechanical Features

- Smallest and most compact bar code scanner of its class, IP 65
 - Option: integrated heating for the use in deep frozen environment
- Smallest and most compact omnidirectional bar code scanner of its class, IP 65
 - Option: integrated heating for the use in deep frozen environment
- Compact, innovative design, IP 54, all optical components IP 65

Special Features

- SMART Decoder – high read rates even in the case of damaged, tilted or dirty bar codes
 - Highest reading reliability for tilted bar codes in an angle of - 45° ... + 45°
 - Extreme depth of field range due to the realtime AUTO FOCUS function
 - Very high scanning frequency up to 1,200 Hz
 - Wide range of power supply 18 ... 30 V DC
 - Remote diagnostic opportunity upon the base of the RDT 400 software
- SMART Decoder – high read rates even in the case of damaged, tilted or dirty bar codes
 - Bar code identification in any tilt orientation
 - Integrated tracking electronic guarantees the correct assignment of bar codes to the appropriate object – even under the condition of small object gaps
 - Option: Use as an omnidirectional bar code scanner from side position in combination with the OPS system
 - Remote diagnostic opportunity upon the base of the RDT 400 software
- SMART Decoder – high read rates even in the case of damaged, tilted or dirty bar codes
 - Bar code identification in any tilt orientation
 - Integrated tracking electronic guarantees the correct assignment of bar codes to the appropriate object – even under the condition of small object gaps
 - Coverage of wide conveyors up to 800 mm width
 - Remote diagnostic opportunity upon the base of the RDT 400 software

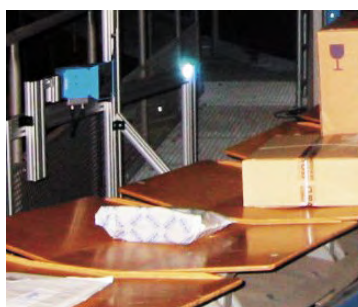
Operation Features

- Easy to use due to CLV Setup Software, Host Command Configuration
 - Cloning plug for the automatic recovery of scanner parameters in cast of unit exchange
- Easy to use due to CLV Setup Software, Host Command Configuration
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- Easy to use due to CLV Setup Software, Host Command Configuration

Technical data	CLV 490
Reading range	500 ... 2,100 mm
Reading field height	up to 1,200 mm
Scanning frequency	600 ... 1,200 Hz
Data interface	RS 232, RS 422, RS 485 SICK CAN Scanner Network Opt.: Profibus, Interbus, Ethernet TCP/IP
Dimensions (L/W/H)	117/117/94 mm

Technical data	CLX 490
Reading range	500 ... 1,750 mm
Reading field height	up to 400 mm
Scanning frequency	600 ... 1,200 Hz
Data interface	RS 232, RS 422, RS 485 SICK CAN Scanner Network Opt.: Profibus, Interbus, Ethernet TCP/IP
Dimensions (L/W/H)	176/208/153 mm

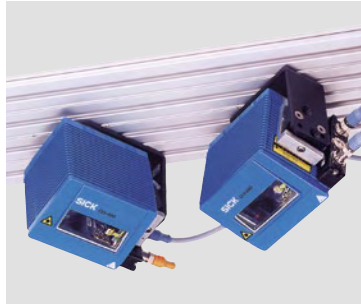
Technical data	OPS 400
Reading range	500 ... 2,100 mm
Reading field height	800 mm
Scanning frequency	600 ... 1200 Hz
Data interface	RS 232, RS 422, RS 485 Optional: Profibus, Interbus, Ethernet TCP/ IP
Dimensions (L/W/H)	530/270/158 mm



Bar code scanners – fix mounted



OMNI 2110



OPS with OTS



ALIS 400

Optical Features

- Omnidirectional laser scanner
- Dynamic, adjustable focus control in realtime
- Versions for various depth of field ranges and conveyor widths
- 90° crossed scanning lines

- Omnidirectional laser scanner
- Modular concept consisting of several CLV 490 (optional CLX 490)
- Application specific orientation of the bar code scanners
- AUTO FOCUS function
- Versions for the coverage of various conveyor widths
- 90° crossed scanning lines

- Multi-side, omnidirectional laser scanner system
- **Airport Luggage Identification System** for the automatic identification of IATA bar code labels
- Suited for T-Codes and linear bar codes
- Modular concept consisting of several CLV 490
- Application specific orientation of the bar code scanners
- AUTO FOCUS function

Mechanical Features

- Compact, metal housing, IP 51

- Modular, application specific alignment of the CLV 490 bar code scanners
- Tunnel scanning systems for multi-sided bar code identification of parcels or pallets

- Modular, application specific alignment of the CLV 490 bar code scanners
- Tunnel scanning systems for multi-sided bar code identification of luggage

Special Features

- CIX Decoder – high read rates even in the case of damaged, tilted or dirty bar codes
- Bar code identification in any tilt orientation
- Integrated tracking electronic guarantees the correct assignment of bar codes to the appropriate object – even under the condition of small object gaps
- Coverage of wide conveyors up to 1,000 mm width
- Remote diagnostic opportunity

- SMART Decoder – high read rates even in the case of damaged, tilted or dirty bar codes
- Bar code identification in any tilt orientation
- Tracking electronic in the separate OTS controller guarantees the correct assignment of bar codes to the appropriate object – even under the condition of small object gaps
- Remote diagnostic opportunity upon the base of the RDT 400 software

- SMART Decoder – high read rates even in the case of damaged, tilted or dirty bar codes
- Bar code identification in any tilt orientation
- Tracking electronic in the separate OTS controller guarantees the correct assignment of bar codes to the appropriate object – even under the condition of small object gaps
- Remote diagnostic opportunity upon the base of the RDT 400 software
- Maintenance-free operation and high reliability
- Proven performance at airports upon a world wide base

Operation Features

- Easy to use due to windows based Setup Software, Host Command Configuration

- Easy to use due to CLV Setup Software, Host Command Configuration
- Cloning plug for the automatic recovery of scanner parameters in cast of unit exchange

- Easy to use due to CLV Setup Software, Host Command Configuration
- Cloning plug for the automatic recovery of scanner parameters in cast of unit exchange

Technical data	OMNI 2110
Reading range	635 ... 1,524 mm
Reading field height	1,000 mm
Scanning frequency	300 ... 550 Hz
Data interfaces	RS 232, RS 422 Optional: Ethernet TCP/IP, Starnode, DeviceNet
Dimensions (L/W/H)	615/425/176 mm

Technical data	OPS with OTS
Reading range	500 ... 2,100 mm
Reading field height	free selectable
Scanning frequency	600 ... 1,200 Hz
Data interfaces	RS 232, RS 422, RS 485 Optional: Profibus, Interbus, Ethernet TCP/IP
Dimensions (L/W/H)	540/160/160 mm

Technical data	ALIS 400
Reading range	500 ... 2,100 mm
Reading field height	free selectable
Scanning frequency	600 ... 1,200 Hz
Data interfaces	RS 232, RS 422 Optional: Ethernet TCP/ IP, Starnode, DeviceNet
Dimensions (L/W/H)	1,000/2,400/1,500 mm



Bar code scanners/Matrix code scanners – fix mounted



ICR 850



MHV 2020

Optical Features

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| <ul style="list-style-type: none"> ■ Linear CCD Image Code Reader ■ Fixed, pre-adjusted focus ■ Integrated laser illumination ■ Bar code and Data Matrix ECC 200 identification ■ Reading distance 100 mm | <ul style="list-style-type: none"> ■ Linear CCD Image Code Reader ■ Over the belt camera ■ Dynamic, adjustable focus control in realtime ■ Integrated illumination |
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Mechanical Features

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| <ul style="list-style-type: none"> ■ Very compact, zinc die-cast housing suited for the use at industrial environment, IP 65 ■ Front or lateral reading window | <ul style="list-style-type: none"> ■ Compact, metal housing, IP 65 |
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Special Features

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|--|---|
| <ul style="list-style-type: none"> ■ Field of view of 83 mm leads to variable positioning of 2D-codes or bar codes ■ Omnidirectional identification of 2D-codes ■ Super fast scanning frequency of up to 15 kHz ■ Wide range of power supply 10 ... 30 V DC ■ Programmable beeper ■ Auxiliary interface for diagnosis of the reading performance ■ PIN compatible to CLV 420 ... 450 ■ Integrated Ethernet interface | <ul style="list-style-type: none"> ■ Bar code and 2D-code identification in any orientation ■ Identification of all popular 2D-codes ■ Coverage of wide conveyor of up to 1,000 mm width ■ Integrated tracking electronic guarantees the correct assignment of bar codes to the appropriate object – even under the condition of small object gaps ■ Remote diagnostic opportunity upon the base of the RDT 400 software |
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Operation Features

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|---|---|
| <ul style="list-style-type: none"> ■ Easy to use due to CLV Setup Software, Host Command Configuration | <ul style="list-style-type: none"> ■ Easy to use due to windows based Setup Software, Host Command Configuration |
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Technical data	ICR 850	MHV 2020
Reading range	100 mm	700 ... 1,550 mm
Reading field height	83 mm	990 mm
Scanning frequency	15 kHz	10 kHz
Data interfaces	RS 232, RS 422, RS 485 CANopen, SICK CAN Scanner Network, Ethernet TCP/IP 10Mbit/s	Ethernet TCP/IP 100 Mbit/s RS 232, RS 422
Dimensions (L/W/H)	115/80/39 mm	665/340/930 mm

