Product Overview

Bar Code Reading Systems

Automatic Identification Technology

SICK

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 bar code technology offers tailor-made solutions for most applications and is established as a standard throughout the industry.

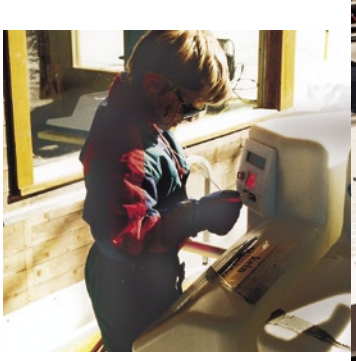
As one of the leading manufacturers of sensor equipment SICK is offering bar code readers for quick, reliable and economic manufacturing and handling processes in industry, wholesale and transportation.

The product portfolio consists of the following bar code readers:
- Fix mounted bar code readers
- Fix mounted matrix code readers
- Mobile hand-held scanner
- Omnidirectional bar code reading systems
- Over belt cameras

The integration of Auto Ident equipment in various host computer systems (CAN, Interbus, DeviceNet, Profibus or Ethernet) is also easy to realise thanks to a modular bus connection module.

All bar code readers are supported by sophisticated and easy-to-use software tools. This means for the operators an easy and clear handling for the electrical installation and final implementing of the total system.

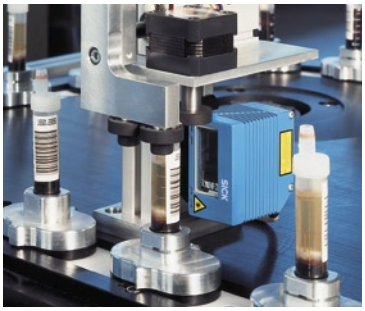
We from SICK, as the bar code experts, do not only talk about innovation, we just do it.
Use our competence to provide an efficient solution for your application.

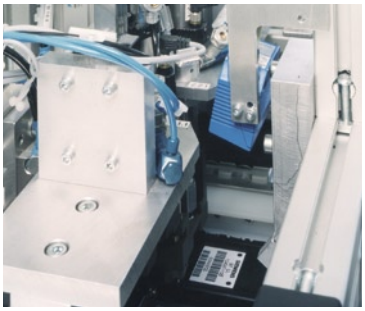


Bar code scanners – fix mounted

	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 ■ Line and raster scanner	■ 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
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

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 oszillating mirror

Mechanical Features

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

Operation Features

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

CLV 440

Optical Features

- 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 oszillating mirror

Mechanical Features

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

Operation Features

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

CLV 450

Optical Features

- 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 oszillating mirror

Mechanical Features

- 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 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

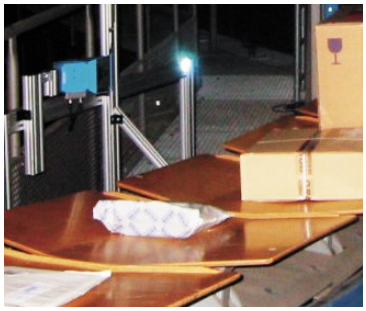
- Easy to use due to Auto-Setup function, Profile Programming, CLV Setup Software, Host Command Configuration

Technical data	CLV 430	CLV 440	CLV 450
Reading range	50 ... 580 mm	30 ... 840 mm	200 ... 1,600 mm
Scanning frequency	300 ... 800 Hz	300 ... 800 Hz	400 ... 1,000 Hz
Data interfaces	RS 232, RS 422, RS 485 CANopen, SICK CAN Scanner Network Opt.: Profibus, Interbus, Ethernet TCP/IP	RS 232, RS 422, RS 485 CANopen, SICK CAN Scanner Network 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)	90/60/35.7 mm	90/60/35.7 mm	90/60/35.7 mm

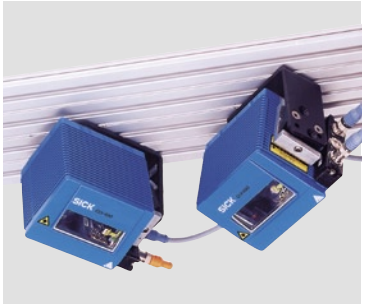
Bar code scanners – fix mounted

	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 oszillating 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 deap frozen environment	■ Smallest and most compact omnidirectional bar code scanner of its class, IP 65 ■ Option: integrated heating for the use in deap 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 ■ 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

Technical data	CLV 490	CLX 490	OPS 400
Reading range	500 ... 2,100 mm	500 ... 1,750 mm	500 ... 2,100 mm
Reading field height	up to 1,200 mm	up to 400 mm	800 mm
Scanning frequency	600 ... 1,200 Hz	600 ... 1,200 Hz	600 ... 1200 Hz
Data interface	RS 232, RS 422, RS 485 SICK CAN Scanner Network Opt.: Profibus, Interbus, Ethernet TCP/IP	RS 232, RS 422, RS 485 SICK CAN Scanner Network Opt.: Profibus, Interbus, Ethernet TCP/IP	RS 232, RS 422, RS 485 Optional: Profibus, Interbus, Ethernet TCP/ IP
Dimensions (L/W/H)	117/117/94 mm	176/208/153 mm	530/270/158 mm



Bar code scanners – fix mounted



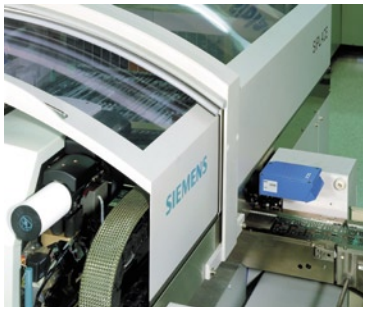
	OMNI 2110	OPS with OTS	ALIS 400
Optical Features	■ Omnidirectional laser scanner ■ Dynamic, adjustable focus control in realtime ■ Versions for various depth of field ranges and conveyor widths ■ 90° crossed scanning lines	■ Omnidirectional laser scanner ■ Modular concept consisting of several CLV 490 (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 ■ **A**irport **L**uggage **I**dentification **S**ystem 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	OPS with OTS	ALIS 400
Reading range	635 ... 1,524 mm	500 ... 2,100 mm	500 ... 2,100 mm
Reading field height	1,000 mm	free selectable	free selectable
Scanning frequency	300 ... 550 Hz	600 ... 1,200 Hz	600 ... 1,200 Hz
Data interfaces	RS 232, RS 422 Optional: Ethernet TCP/IP, Starnode, DeviceNet	RS 232, RS 422, RS 485 Optional: Profibus, Interbus, Ethernet TCP/IP	RS 232, RS 422 Optional: Ethernet TCP/ IP, Starnode, DeviceNet
Dimensions (L/W/H)	615/425/176 mm	540/160/160 mm	1,000/2,400/1,500 mm

Bar code scanners/Matrix code scanners – fix mounted

	ICR 850	MHV 2020
Optical Features	■ Linear CCD Image Code Reader ■ Fixed, pre-adjusted focus ■ Integrated laser illumination ■ Bar code and Data Matrix ECC 200 identification ■ Reading distance 100 mm	■ Linear CCD Image Code Reader ■ Over the belt camera ■ Dynamic, adjustable focus control in realtime ■ Integrated illumination
Mechanical Features	■ Very compact, zinc die-cast housing suited for the use at industrial environment, IP 65 ■ Front or lateral reading window	■ Compact, metal housing, IP 65
Special Features	■ 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	■ 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
Operation Features	■ Easy to use due to CLV Setup Software, Host Command Configuration	■ Easy to use due to windows based Setup Software, Host Command Configuration

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



Connection modules

AMV/S 40/60

Mechanical Features

- Connection module for SICK bar code scanners
- AMV/S 40
  Made for the connection of:
  CLV 410/420/430/440 and 450
  ICR 850, OPS 400
- AMV/S 60
  Made for the connection of:
  CLV 490/CLX 490

Special Features

- Compact housing
- Integrated Aux interface for configuration and diagnosis of the bar code scanners
- Clamps for all scanner signals
- Quick and comfortable installation
- Easy electrical wiring
- Option: intergrated transformer for the power supply of the bar code scanners

AMV 70/71

- Connection module for SICK bar code scanners in the SICK CAN Scanner Network
- AMV 70
  Made for the connection of:
  CLV 410/420/430/440 and 450
  ICR 850, OPS 400
- AMV 71
  Made for the connection of:
  CLV 490/CLX 490

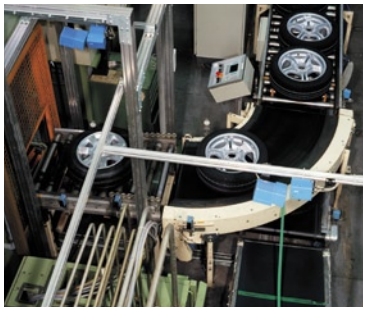
- Compact housing with PG outlets
- Integrated Aux interface for configuration and diagnosis of the bar code scanners
- Clamps for all scanner signals
- Double amount of clamps for the CAN bus
- Configuration of all CAN bus parameters
- Quick and comfortable installation
- Easy electrical wiring of bar code scanners in the SICK CAN Scanner Network

BMV/BMH

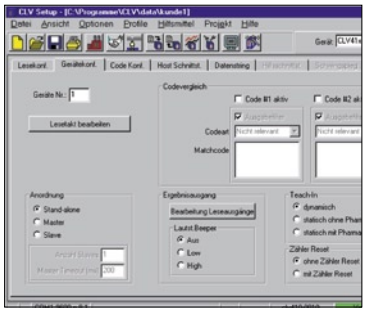
- Connection module for SICK bar code scanners to industrial field bus systems
- Made for the connection of:
  CLV 410/420/430/440/450/490
  CLX 490, ICR 850, OPS 400
- Attachable field buses:
  Profibus DP
  DeviceNet
  Interbus-S
  Ethernet TCP/IP and FTP

- Compact aluminum housing with PG outlets, IP 54
- Integrated Aux interface for configuration and diagnosis of the bar code scanner
- Clamps for all scanner signals
- Quick and comfortable installation
- Easy electrical wiring of bar code scanners
- Option: IP 65

Technical data	AMV/S 40/60	AMV 70/71	BMV/BMH
Operating voltage	24 V DC/230 V AC/115 V AC	24 V DC	24 V DC
Housing	Polycarbonate	Polycarbonate	Aluminium die-cast
Enclosure rating	IP 54	IP 54	IP 54/IP 65
Dimensions (L/W/H)	173/117/70 mm	173/117/70 mm	220/140/70 mm



SICK Software



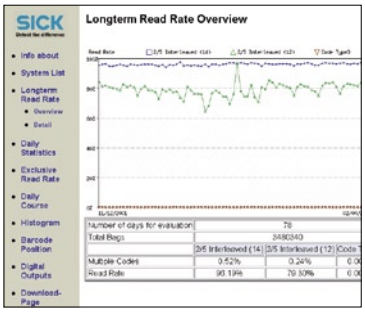
CLV Setup/Assistant

Functions

- Windows based Setup Software
- Supports all CLV and ICR products
- Clear visualisation of CLV parameter
- Simple and self-explaining possibility of optimising the application specific scanner configuration
- Extensive, context based help system
- Automatic scanner type detection when connection via serial interface
- Simple parameter cloning for the identical configuration of several bar code scanners
- Integrated terminal emulation for visualising the online communication
- Option for printing the scanner configuration as Profile bar codes
- Configuration of a a CAN Scanner Network solution is possible
- Current software version as download at www.sick.de

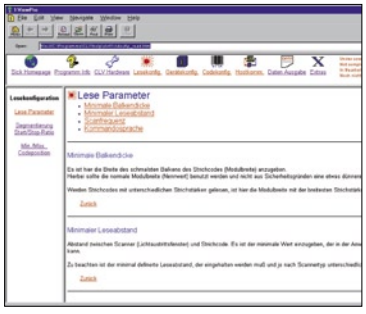
CLV Connect

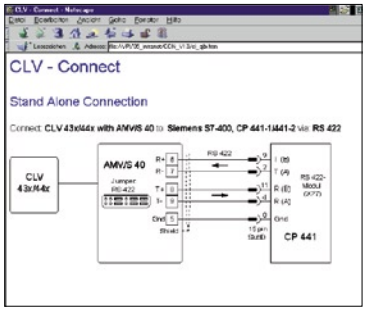
- HTML based software for a fast construction of application specific connection drawings
- Easy selection of CLV/ICR connection diagrams for connecting to different host computer types
- Listing of the connection modules
- Supports all CLV and ICR products and the respective connection modules for different reading configurations
- Connection diagrams available for:
  - Single Scanner Applications
  - SICK CAN Scanner Network
  - Fieldbus connection to Profibus, Interbus, DeviceNet and Ethernet
  - Scanner connection to SPS types S5, S7 ...
  - Linking up of CLV/ICR and hand-held bar code scanners
- Current software version as download at www.sick.de

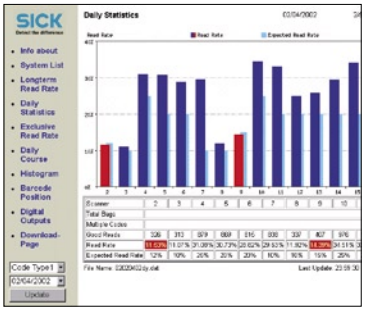


RDT 400

- Remote Diagnostic Tool for monitoring scanners (systems)
- Local or central visualisation
- Use of existing “state-of-the-art” network infrastructure, such as Ethernet
- Remote monitoring and download of the logfiles via modem, intranet or internet
- Monitoring of the performance through automatic control of the system read rates and the single scanners in a system
- Detailed visualisation:
  - Complete system performance
  - Long-term read rates (up to one year)
  - Detailed read rates
  - Hourly read rates
  - Reading positions
  - Multiread histograms







Mobile hand-held scanners

VT 3060B/3080B

Optical Features

- CCD Touchreader
- Reading width of 60 mm or 80 mm available

Mechanical Features

- Compact housing

Special Features

- Operating voltage: 5 V DC ± 5 %
- Integrated decoder
- Flash Memory
- Optical and acoustical Good-Read-Signal
- Low power consumption

Operation Features

- Easy-to-use due to configuration via bar codes
- Setup Software for easy and clear programming

IT 3220

Optical Features

- Linear Imager
- Reading distance up to 300 mm

Mechanical Features

- Robust, compact and ergonomic housing

Special Features

- Operating voltage: 5 V DC ± 5 %
- Integrated decoder
- Flash Memory
- Optical and acoustical Good-Read-Signal
- Low power consumption

Operation Features

- Easy-to-use due to configuration via bar codes
- Setup Software for easy and clear programming

IT 3800

Optical Features

- Innovative Linear Imager
- Complete product family for a wide range of applications:
  - LR for a reading distance up to 240 mm
  - LX for a reading distance up to 450 mm
  - PDF with additional PDF417-Decoder
  - VHD for High Density bar codes
  - ESD housing for operating in clean room
  - IR with infrared illumination

Mechanical Features

- Extremely robust, compact and ergonomic housing

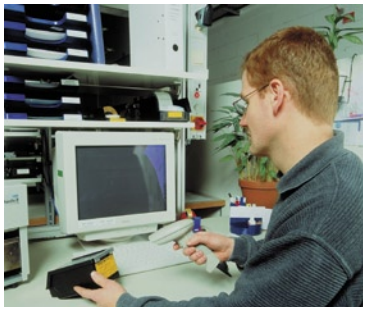
Special Features

- Operating voltage: 5 V DC ± 5 %
- Integrated decoder
- Flash Memory
- Optical and acoustical Good-Read-Signal
- Adjustable power consumption

Operation Features

- Easy-to-use due to configuration via bar codes
- Setup Software for easy and clear programming

Technical Data	VT 3060B/3080B	IT 3220	IT 3800
Reading distance	0 ... 51 mm	5 ... 300 mm	25 ... 455 mm
Reading field height	60 mm/80 mm at contact	150 mm at 225 mm reading distance	152 mm bei 400 mm reading distance (LX)
Scanning frequency	100 Hz	200 Hz	270 Hz
Data interfaces	RS 232 TTL Keyboard wedge for PCs, USB, wand emulation	RS 232 TTL Keyboard wedge for PCs, USB, wand emulation	Laser Out (HHLC), RS 232 TTL/optional RS 232 True, keyboard wedge for PCs, USB, wand emulation



Mobile hand-held scanners

IT 4410

Optical Features

- Innovative 2D-Imager
- Complete product family for a wide range of applications:
  - LR for a reading distance up to 267 mm
  - LX for a reading distance up to 350 mm
  - HD to identify a min. module width of 0.1 mm or a min. cell size of 0.17 mm
  - HD10 to identify a min. module width of 0.13 mm or a min. cell size of 0.25 mm
  - ESD housing for operating in clean room

Mechanical Features

- Robust, compact and ergonomic housing

Special Features

- Operating voltage: 5 V DC ± 5 %
- Integrated decoder for all popular linear and 2D-codes
- Flash Memory
- Optical and acoustical Good-Read-Signal

Operation Features

- Easy-to-use due to configuration via bar codes
- Setup Software for easy and clear programming

ST 5700/ST 5750

Optical Features

- High performance laser scanner
- ST 5750 with sealed housing meets IP 54 requirements
- Complete product family for a wide range of applications:
  - A for a reading distance up to 860 mm
  - ALR for a reading distance up to 2,500 mm
  - HD for High Density bar codes

Mechanical Features

- Robust, compact and ergonomic housing

Special Features

- Operating voltage: 5 V DC ± 5 %
- Integrated decoder
- Optical and acoustical Good-Read-Signal

Operation Features

- Easy-to-use due to configuration via bar codes

ST 5770

Optical Features

- Laser scanner with cordless data transmission to ST 2070
- Complete product family for a wide range of applications:
  - STD for a reading distance up to 1,155 mm
  - ALR for a reading distance up to 2,500 mm

Mechanical Features

- Extremely robust housing meets the IP 54 requirements

Special Features

- Removable and separately rechargeable battery (4.8 V DC/min. 1,000 mAh)
- Operation period of approx. 25 hours or 18,000 Scans
- Approx. 6 hours charging time
- Safe RF data transmission
- Broad range coverage up to 730 m²
- Optical and acoustical Good-Read-Signal

Operation Features

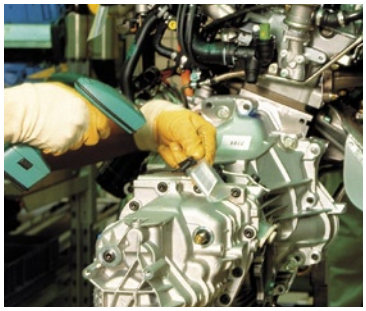
- Easy-to-use due to configuration via bar codes
- Setup Software for easy and clear programming

Technical Data	IT 4410	ST 5700/ST 5750	ST 5770
Reading distance	25 ... 350 mm	30 ... 2,500 mm	0 ... 2,500 mm
Reading field height	max. 109 x 82 mm²	max. 500 mm at 790 mm reading distance	580 mm at 860 mm reading distance (STD)
Scanning frequency	5 scans per second	36 ± 3 Hz	36 ± 3 Hz
Data interfaces	Laser Out (HHLC), RS 232 TTL/optional RS 232 True, keyboard wedge for PCs, wand emulation	Laser Out (nur ST 5700), RS 232 TTL (ST 5700 only), RS 232 True, keyboard wedge for PCs, wand emulation	Frequency Hopping Spread Spectrum 2.4 ... 2.4835 GHz (ISM band), 1 Mbit/s data transmission rate, without licence

Mobile hand-held scanners

	IT 3870	IT 3875	ST 2070
Optical Features	■ Linear Imager with cordless data transmission to ST 2070	■ Linear Imager with graphics display, keypad and cordless data transmission to ST 2070	■ Base station for hand-held scanners ST 5770, IT 3870 and IT 3875
	■ Complete product family for a wide range of applications: - LX for a reading distance up to 455 mm - PDF with additional PDF417-Decoder - HD for High Density bar codes	■ Complete product family for a wide range of applications: - LX for a reading distance up to 455 mm - PDF with additional PDF417-Decoder - HD for High Density bar codes	■ Complete product family for different applications: - ST 2070-1 - ST 2070-5 with additional features for IT 3875
Mechanical Features	■ Extremely robust housing meets the IP 54 requirements	■ Extremely robust housing meets the IP 54 requirements	■ Extremely robust housing meets IP 53 requirements
Special Features	■ Removable and separately rechargeable battery (4.8 V DC/min. 1,000 mAh) ■ Operation period of approx. 25 hours or 18,000 scans ■ Approx. 6 hours charging time ■ Safe RF data transmission ■ Broad range coverage up to 730 m² ■ Optical and acoustical Good-Read-Signal	■ Removable and separately rechargeable battery (4,8 V DC/min. 1,000 mAh) ■ Operation period of approx. 19 hours or 13,680 scans ■ Approx. 6 hours charging time ■ Safe RF data transmission ■ Broad range coverage up to 3,000 m² ■ Optical and acoustical Good-Read-Signal	■ Operating voltage: 4 ... 14 V DC ■ Each base station handles up to 9 different hand-held scanners simultaneously ■ Supports up to 9 (ST 2070-5: up to 4) application workgroups on a single base station ■ Broad radius coverage up to 15 m (ST 5770, IT 3870) or up to 30 m (IT 3875)
Operation Features	■ Easy-to-use due to configuration via bar codes ■ Setup Software for easy and clear programming	■ Easy-to-use due to configuration via bar codes ■ Setup Software for easy and clear programming	

Technical Data	IT 3870	IT 3875	ST 2070
Reading distance	0 ... 455 mm	25 ... 455 mm	
Reading field height	152 mm at 315 mm reading distance (LX)	162 mm at 315 mm reading distance (LX)	
Scanning frequency	270 Hz	270 Hz	
Data interfaces	Frequency Hopping Spread Spectrum 2.4 ... 2.4835 GHz (ISM band), 1 Mbit/s data transmission rate, without licence	Frequency Hopping Spread Spectrum 2.4 ... 2.4835 GHz (ISM band), 1 Mbit/s data transmission rate, without licence	Laser Out (HHLC), RS 232 True, keyboard wedge for PCs, wand emulation

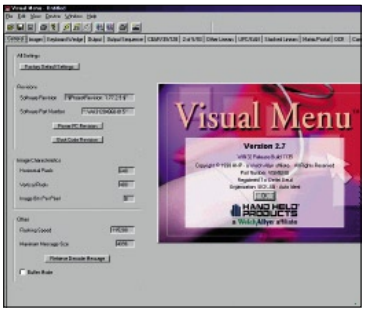


Software for hand-held scanners

Setup

Functions

- Setup Software (for MS Windows)
- Applicable for the following hand-held scanners:
  VT 3060B/3080B
  IT 3220
- Automatic hand-held scanner identification while starting connecting with the serial interface
- Comfortable visualisation and control of the hand-held scanner parameters
- Current software version as download at www.sick.de

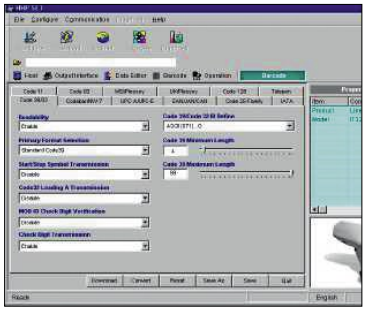


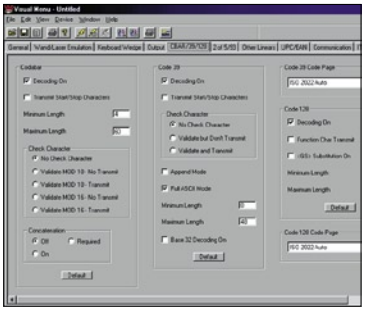
Visual Menue

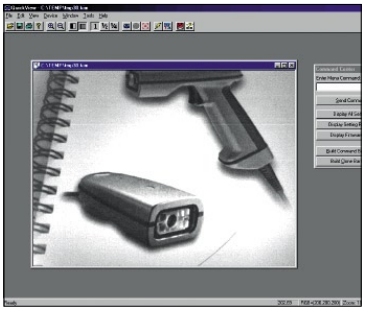
- Setup Software (for MS Windows)
- Applicable for the following hand-held scanners:
  - IT 3800 product family
  - IT 4410 product family
  - ST 2070 including the hand-held scanners ST 5770, IT 3870 and IT 3875
- Automatic hand-held scanner identification while starting connecting with the serial interface
- Comfortable visualisation and control of the hand-held scanner parameters
- Extensive help system
- Easy parameter cloning to configure several identical hand-held scanners
- Print-out profile bar code for easy adjustment of the hand-held scanners
- Current software version as download at www.sick.de

Quick View

- Image Download Software (for MS Windows)
- Applicable for the following hand-held scanners:
  IT 4410 product family
- Automatic hand-held scanner identification while starting connecting with the serial interface
- Integrated Image Download feature to display the scanned picture
- Integrated terminal emulation for online communication monitoring
- Possibility to key-in and send serial commands to the hand-held scanner
- Option to print-out all parameter settings of the hand-held scanner configuration
- Current software version as download at www.sick.de







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Fax Reply

The dialogue continues.

Copy, fill in and fax back.

Company	
Name	
Position/ Department	
Address	
Post code/ Town	
Phone/Fax	
Industry/ Field of application	

☐ Yes, I would like to know more about:

_____

_____

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

■ **More product information as download at www.sick.de**

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