

Flexible and reliable identification of bar codes



Control at your fingertips: mobile identification with IDM1xx

SICK offers hand-held scanners for use in a wide range of applications. Identification tasks can be carried out simply, flexibly and reliably using these easy-to-use devices.

Reliable reading performance

The IDM hand-held scanners have high-performance image capture modules. Even damaged or poorly printed bar codes can be reliably detected.

Reduced need for manual reinput

Ergonomic design

All IDM hand-held scanners are characterized by their ergonomically shaped housing. Along with their low weight, the devices fit well in the user's hand and can be easily operated.

▶ Comfortable, effortless operation

High reading speed

Scanning rates of up to 500 scans/second ensure high throughput. The highly visible scan line allows the operator to intuitively locate and align the code, which accelerates the scanning process.

Significantly increased productivity

Standardized configuration

A standardized and comprehensive configuration concept unites all IDM hand-held scanners by means of codes or software. This allows reading to be narrowed down to desired code types, code lengths and even content.

Quick and intuitive commissioning





Integration into industrial fieldbuses

In addition to connecting them directly to common PC interfaces, such as USB and RS-232, IDM hand-held scanners can also be integrated into networks using special connection modules (see page 27 onwards). With SICK as a system supplier of complete identification solutions, it is also possible to interconnect these scanners with fixed 1D or 2D reading devices from SICK.

Plant flexibility

Variable accessories

Whether you need holders or stands, the accessories for IDM hand-held scanner can be easily implemented. Only a single power supply is needed for all versions, making it particularly practical. It can be used worldwide because country-specific adapters are all already included. Connecting cables can be adapted to meet specific customer requests.

High availability, low storage costs

Global support

With nearly 50 subsidiaries in all major industrial nations as well as numerous representatives, we're there where you need us. You are not on your own.

Quick support before and after your purchase

Versions for all situations

Ranging from the simple office scanner to the rugged industrial version, the IDM hand-held scanners provide a tailored solution for all requirements and industries.

Tailored price/performance ratio

IDM120, IDM140 or IDM160 - It's your choice

At SICK, you can find exactly the right model for your requirements at an optimal price/performance ratio, from the wired scanner for standard applications to the wireless top model suitable for industrial applications.



"Industrial" scanner

- Increased productivity and throughput thanks to fast and reliable identification
- · Easy to use through long range and immediate reading
- High reliability thanks to industrial grade and rugged housing
- Intuitive good read feedback for noisy industrial environment via vibration, beeper and LED
- Reduced costs thanks 2 in 1 scan engine: covering standard and high density codes with a single device
- · Tool-free cable and battery changing
- Can be mounted onto industrial spring balancers for ergonomic workstations



"General purpose" scanner

- For standard applications
- Reliable identification at a low price
- · High user comfort due to ergonomic housing and low weight
- Reduced costs thanks 2 in 1 scan engine: covering standard and high density codes with a single device



"Wireless" scanner

- Maximum freedom of movement in the workstation without limiting cables
- Choice between Bluetooth® and WLAN
- Large radio ranges and intermediate-storage function for up to 20,000 codes
- Highly visible color display in WLAN versions for comfortable operation
- Pre-designed inventory function for interlinking article information and quantity
- · Long-lasting and high-performance lithium-ion batteries

Product comparison



Tailored solutions for a wide range of applications

Data must be detected quickly and flexibly across different industries. The use of SICK's hand-held scanners enables impeccable reading results in a matter of seconds. Increased efficiency makes its mark in every department – from the office to delivery.



Factory automation

A well-organized and efficient production flow plays an important role for the competitiveness of a company. Hand-held scanners identify codes on documents, components or finished parts, which in turn helps to speed up production processes and prevent errors. Combined with database systems, the demand for comprehensive traceability is also met.







Logistics automation

The demand for faster material movement requires more efficient control mechanisms. Quick and flexible identification using hand-held scanners is ideal. Whether in a manual small-parts warehouse or in an automated logistics center, thanks to wired or radio-based devices, you always have everything under control.







Additional areas of application

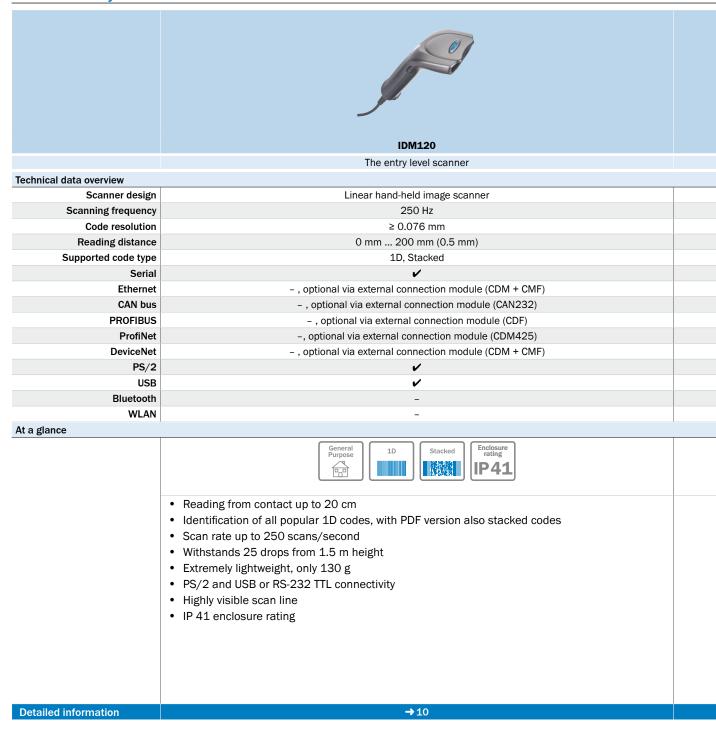
Hand-held scanners also provide impeccable reading results in many other applications in a matter of seconds. In the office, at the checkout or even in the laboratory – reliable and quick process flows would not be possible nowadays without the use of automatic scanners.

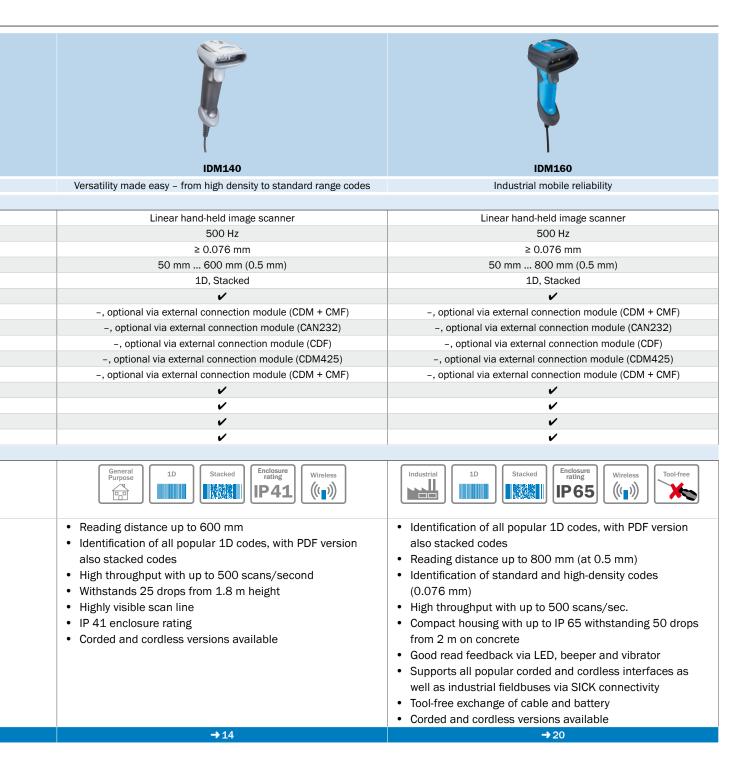






Product family overview





IDM120 Hand-held scanners

The entry level scanner













The IDM120 is a price attractive solution for standard reading applications. In contrast to similar products, IDM120 is not a pure touch reader. It can also identify bar codes up to 20 cm distance and up to 120 mm width. Combined with a scan rate of 250 scans/second IDM120 helps to shorten reading time and increase throughput. The ergonomic design with two side trigger for both left and right handed users plus the low weight makes

it comfortable for daily use. The IDM120 is IP 41 rated and withstands multiple drops from 1.5 m height. All common interfaces such as PS/2, USB or RS-232 are supported.

This combination of performance and easy to use, paired with attractive price, makes the IDM120 an all-round device for simple applications within point-ofsales, medial of office automation

At a glance

- · Reading from contact up to 20 cm
- Identification of all popular 1D codes, with PDF version also stacked codes
- Scan rate up to 250 scans/second
- Withstands 25 drops from 1.5 m height
- Extremely lightweight, only 130 g
- PS/2 and USB or RS-232 TTL connectivity
- · Highly visible scan line
- IP 41 enclosure rating

Your benefits

- · Designed for contact and close-range detection, providing flexible operation
- Increased productivity thanks to short scan time
- Low-cost solution for identifying various code sizes
- Trigger buttons on both sides make it suitable for left- and right-handed operation
- · Lightweight, ergonomic design ensures user comfort
- · The most popular industrial interfaces allow flexible connectivity to, e.g., PS/2, USB and RS-232 TTL
- Easy targeting with highly visible scan line for correct aiming
- · Reliable identification reduces the need to manually input data

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Detailed technical data

Features

Scanner design	Linear hand-held image scanner
Light source	Visible red light (660 nm)
Scanning frequency	≤ 250 Hz
Code resolution	≥ 0.076 mm
Reading distance (at code resolution)	0 mm 200 mm (0.5 mm)
Reading field (at distance)	120 mm (150 mm)

Performance

Supported code type	1D / Stacked (depending on type)
Bar code types	Code 39, Code 32, HIBC, Code 93, Code 11, Codabar, Code 128, UCC/EAN-128, UPC-A, UPC-E, MSI/Plessey, UK/Plessey, IATA, Standard and Industrial 2 of 5, Matrix 2 of 5, Interleaved 2 of 5, Mainland China Postal Code, German ITF Postal Code, Telepen, Limited/Expanded GS1 DataBar, PDF417, MicroPDF417, Codablock, Composite (depending on type)

Interfaces

Serial	✓
Function	RS-232 TTL
Ethernet	-, optional via external connection module (CDM + CMF)
CAN bus	-, optional via external connection module (CAN232)
PROFIBUS	-, optional via external connection module (CDF)
ProfiNet	-, optional via external connection module (CDM425)
DeviceNet	-, optional via external connection module (CDM + CMF)
PS/2	v
Function	Keyboard wedge
USB	✓
Function	Keyboard wedge, COM-Port Emulation
Optical indicators	2 LEDs (operational status, good read)
Acoustic indicators	Beeper, disengageable (good read)
Vibration	No

Mechanics/electronics

Operating voltage	5 V DC, ± 5 %
Housing color	Black
Enclosure rating	IP 41
Weight	130 g, without cable
Dimensions	230 mm x 170 mm x 100 mm

Ambient data

Shock resistance	25 drops from 1.5 m height on concrete
Ambient operating temperature	0 °C +50 °C
Storage temperature	-20 °C +60 °C
Permissible relative humidity	95 %, on-condensing
Ambient light safety	10,000 lx

IDM120 Hand-held scanners

Ordering information

- Field of application: general purpose
- Type: Short Range

	Items supplied	Model name	Part no.
Single scanner	Hand-held scanner, quick start guide	IDM120-201B	6040981 1)
	Kit contains hand-held scanner, interface cable and quick start guide	IDM120-2 PS/2 Kit	6040978
Kit	Kit contains hand-held scanner, interface cable and quick start guide	IDM120-2 USB Kit	6040979
	Kit contains hand-held scanner, interface cable, power supply and quick start guide	IDM120-2 RS-232 Power Supply Kit	6041016
Single scanner	Hand-held scanner, quick start guide	IDM120-2PDF01B	6041192 1)
	Kit contains hand-held scanner, interface cable and quick start guide	IDM120-2PDF PS/2 Kit	6041186
Kit	Kit contains hand-held scanner, interface cable and quick start guide	IDM120-2PDF USB Kit	6041189
	Kit contains hand-held scanner, interface cable, power supply and quick start guide	IDM120-2PDF RS-232 Power Supply Kit	6044887

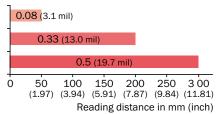
¹⁾ Required accessories: power supply (if required), cable.

Hand-held scanners IDM120

Reading field diagrams

IDM120 Standard Short Range

Code resolution in mm (mil)



Accessories

Accessories for IDM120 see page 18.

Fore more information on connectivity see page 26.















Product description

IDM140 offers high flexibility. The device is able to read all popular 1D bar codes but also stacked codes such as PDF417. Ergonomic design and low weight makes it comfortable to work with IDM140 scanners. For more mobility wireless Bluetooth or WLAN versions are available. All versions have a linear

imaging sensor integrated able to read in up to 600 mm distance. Badly printed or damaged codes are no problem anymore. The IDM140 series combines reading performance and flexible choice of corded and cordless versions. It helps solving various tasks inside office, factory or logistics automation.

At a glance

- Reading distance up to 600 mm
- Identification of all popular 1D codes, with PDF version also stacked codes
- Scan rate up to 500 scans/second
- Withstands 25 drops from 1.8 m height
- Highly visible scan line
- IP 41 enclosure rating

Your benefits

- Increased productivity thanks to high scan rate
- Reliable identification reduces the need to manually input data
- Lightweight, ergonomic design ensures user comfort
- Highly dependable thanks to rugged housing and non-moving parts
- Easy targeting with highly visible scan line for correct aiming

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Detailed technical data

Features

Scanner design	Linear hand-held image scanner
Light source	Visible red light (630 nm)
Scanning frequency	≤ 500 Hz
Code resolution	≥ 0.076 mm
Reading distance (at code resolution)	50 mm 600 mm (0.5 mm)
Reading field (at distance)	150 mm (200 mm)

Performance

	IDM140 Standard	IDM140 Bluetooth	IDM140 WLAN
Supported code type	1D / Stacked (depending on type)		
Bar code types	Codabar, Code 39, Code 32, UPC-A, UPC-E, Standard and Industrial 2 of 5, Interleaved & Matrix 2 of 5, Code 128, UCC/EAN-128, Code 11, Code 93, German ITF Postal Code, Mainland China Postal Code, Telepen, MSI/Plessey, UK/Plessey, Limited/Expanded GS1 DataBar, PDF417, MicroPDF417, Codablock, Composite (depending on type)		
Battery power	-	Over 45,000 scans with full bat	ttery
Code buffer	-	5000 Codes (EAN)	-

Interfaces

	IDM140 Standard	IDM140 Bluetooth	IDM140 WLAN
Serial Function	✔ RS-232 TTL		-
Ethernet	-, optional via external connect	cion module (CDM + CMF)	-
CAN bus	-, optional via external connect	cion module (CAN232)	-
PROFIBUS	-, optional via external connect	cion module (CDF)	-
ProfiNet	-, optional via external connect	cion module (CDM425)	-
DeviceNet	-, optional via external connect	cion module (CDM + CMF)	-
PS/2 Function	Keyboard wedge		-
USB	v		-
Function	Keyboard wedge, COM-Port Em		-
Bluetooth Function Protocol	-	Wireless operating range up to 30 m (free view), batch function for expansion of the wireless radius Bluetooth™ V2.1 EDR, 2.4 2.4835 GHz	-
WLAN Protocol	-		✓ IEEE 802.11 b/g
Encryption (WLAN)	-		WEP, WPA, WPA2
Optical indicators	2 LEDs (operational status, good read)	2 LEDs (good read, charge of battery, radio connection status)	1 LED, display
Acoustic indicators	Beeper, disengageable (good read)		
Vibration	No		

IDM140 Hand-held scanners

Mechanics/electronics

	IDM140 Standard	IDM140 Bluetooth	IDM140 WLAN
Operating voltage	5 V DC, ± 5 %		
Housing color	Black/gray		
Enclosure rating	IP 41		
Weight	160 g, without cable	230 g, incl. rechargeable battery	
Dimensions	97.8 mm x 70.5 mm x 156.2 m	nm	

Ambient data

Shock resistance	25 drops from 1.8 m height on concrete
Ambient operating temperature	0 °C +50 °C
Storage temperature	-40 °C +70 °C
Permissible relative humidity	95 %, non-condensing
Ambient light safety	100,000 lx

Ordering information

- Field of application: general purpose
- Type: Mid Range

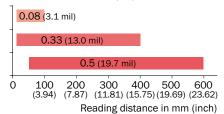
Sub product family	Field of applica- tion		Items supplied		Part no.	
		Single	Hand-held scanner, quick start guide	IDM140-201D	6040985 1)	
		scanner	nand-neid Scanner, quick Start guide	IDM140-2PDF01D	6040989 1)	
		General purpose Kit	Kit contains hand-held scanner, interface cable and quick start guide	IDM140 PS/2 Kit	6040982	
IDM140	General		Kit contains hand-held scanner, interface cable and quick start guide	IDM140 RS-232 Kit	6041017	
Standard	purpose		Kit contains hand-held scanner, interface cable and quick	IDM140 USB Kit	6040983	
		TAIC	start guide	IDM140PDF PS/2 Kit	6040986	
			Kit contains hand-held scanner, interface cable, power supply and quick start guide	IDM140PDF RS-232 Kit	6041018	
			Kit contains hand-held scanner, interface cable and quick start guide	IDM140PDF USB Kit	6040987	
		Single	Cordless scanner and battery is included in delivery	IDM140-2BT	6036729 2)	
		scanner	Cordiess scarnier and battery is included in delivery	IDM140-2PDFBT	6036730 2)	
			Kit contains cordless scanner, battery, charging station and power supply	IDM140BT Charging Kit	6040993	
				IDM140BT PS/2 Kit	6040990	
	Camaral	General face cable, power supply and quick start guide		Kit contains cordless scanner, battery, base station, interface cable, power supply and quick start guide	IDM140BT RS232 Kit	6040992
IDM140	purpose,			IDM140BT USB Kit	6040991	
Bluetooth	cordless	Kit	Kit contains cordless scanner, battery, charging station and power supply	IDM140PDF BT Charging Kit	6040997	
				IDM140PDF BT PS/2 Kit	6040994	
			Kit contains cordless scanner, battery, base station, interface cable, power supply and quick start guide	IDM140PDF BT RS-232 Kit	6040996	
				IDM140PDF BT USB Kit	6040995	
		Single	Cordless scanner and battery is included in delivery	IDM140-2PDF WLAN12D	6043434 3) 4)	
IDM140	General			IDM140-2WLAN12D	6043433 3) 4)	
WLAN	purpose, cordless	Kit	Kit contains cordless scanner, battery, charging station, USB	IDM140PDF WLAN Kit	6043432 4)	
			cable, power supply and quick start guide	IDM140 WLAN Kit	6043431 4)	

 $^{^{\}mbox{\tiny 1)}}$ Required accessories: power supply (if required), cable.

Reading field diagrams

IDM140 Standard IDM140 Bluetooth IDM140 WLAN Mid Range

Code resolution in mm (mil)



 $^{^{\}rm 2)}$ Required accessories: cable (if required), base or charging station (if required).

 $^{^{\}scriptsize\textrm{3)}}$ Required accessories: charging station and power supply unit.

⁴⁾ Not free of substances harmful to paint moistening process.

Accessories for IDM120 and IDM140

Other mounting accessories

	Brief description	Model name	Part no.	IDM120	IDM140 Standard	IDM140 Bluetooth	IDM140 WLAN
ľ	Countertop stand	Countertop stand	6036724	-	•	•	-
	Desk holder	Desk holder	6036723	•	•	•	_

Plug connectors and cables

	Brief description	Model name	Part no.	IDM120	IDM140 Standard	IDM140 Bluetooth	IDM140 WLAN
	Straightened RS-232 TTL cable, 1.8 m, additional power supply needed	Connection cable (plug-socket)	6036727	•	•	•	-
	Straightened RS-232 TTL cable, 1.8 m, power via pin 9 or power supply unit	Connection cable (plug-socket)	6041540	•	•	•	_
M	Straightened PS/2 cable, 2 m	Connection cable (plug-plug)	6036726	•	•	•	_
1	Straightened USB cable, 1.8 m	Connection cable (plug-plug)	6036728	•	•	•	•
R	Spiral cord PS/2 3.8 m (fully extracted)	Connection cable (plug-plug)	6039155	•	•	•	_
	Spiral cord RS-232 3.8 m (fully extracted), power via pin 9 or power supply unit	Connection cable (plug-plug)	6039156	•	•	•	_
	Spiral cord USB 3.8 m (fully extracted)	Connection cable (plug-plug)	6039158 ¹⁾	•	•	•	•

The USB cables no. 6045232 / no. 6039158 only can be used for connecting IDM hand held scanners in "USB HID keyboard" mode. For secure connection in "USB Com Port" mode it is necessary that the host application software is able to detect and to solve connection problems (e.g. caused by voltage drops or other disturbances). In Addition it is recommended when using cables longer than 2 m in USB Com mode, to use an additional, active USB hub in between scanner cable and PC.

Fore more information on connectivity see page 26.

Power supply units

	Brief description	Model name	Part no.	IDM120	IDM140 Standard	IDM140 Bluetooth	IDM140 WLAN
4416	Power supply unit, input AC 100 240 V, output DC 5 V/2 A	Power supply unit	6036722 1)	•	•	•	•

 $^{^{\}mbox{\tiny 1}}$ Power supply is categorized as IT product and does not comply with IEC60601.

Rechargeable batteries and battery chargers

Brief description	Model name	Part no.	IDM120	IDM140 Standard	IDM140 Bluetooth	IDM140 WLAN
Radio base station; operating voltage 5 V DC, operating power max. 650 mA	Base station	6041267	-	-	•	-
Lithium-ion replacement battery for the radio scanners IDM140-2 Bluetooth	Replacement battery	6041193	-	-	•	•
Charging station without Bluetooth functionality; operating voltage 5 V DC, operating power max. 650 mA	Charging station	6041266	-	-	•	•

IDM160 Hand-held scanners

Industrial mobile reliability







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Product description

The IDM160 offers high performance barcode reading with its rugged, industrial, and ergonomic housing. The IP 65 enclosure rating ensures protection against dust and water jets. It can withstand 50 drops from 2 m on concrete. Its ergonomic design and low weight as well as quick integration in common indus-

trial networks guarantee maximum user comfort. Thanks to Bluetooth and WLAN version, flexibility and mobility is guaranteed. The IDM160 series is the ideal choice to increase productivity within industrial factory and logistics automation applications.

At a glance

- Identification of all popular 1D codes, with PDF version also stacked codes
- Reading distance up to 800 mm (at 0.5 mm)
- Identification of standard and highdensity codes (0.076 mm)
- High throughput with up to 500 scans/sec.
- Compact housing with up to IP 65 withstanding 50 drops from 2 m on concrete
- Good read feedback via LED, beeper and vibrator
- Supports all popular corded and cordless interfaces as well as industrial fieldbuses via SICK connectivity
- Tool-free exchange of cable and battery
- Corded and cordless versions available

Your benefits

- Increased productivity and throughput thanks to fast and reliable identification
- Reduced costs thanks to 2-in-1 scan engine: covering standard and highdensity codes with a single device
- High reliability thanks to industrial grade and rugged housing
- Easy to use through long range and immediate reading
- Intuitive good read feedback for noisy industrial environment via vibration, beeper and LED
- Higher user comfort through ergonomic housing design, well balanced and light weight
- High flexibility and operator mobility with corded and cordless versions
- Quick integration in most corded and cordless PC or industrial networks
- SICK LifeTime Services give you peace of mind

Detailed technical data

Features

	IDM160 Standard	IDM160 Bluetooth	IDM160 WLAN
Scanner design	Linear hand-held image scanne	r	
Light source	Visible red light (630 nm)		
Scanning frequency	≤ 500 Hz		
Code resolution	≥ 0.076 mm		
Reading distance (at code resolution)	50 mm 800 mm (0.5 mm)		
Reading field (at distance)	200 mm (200 mm)		

Performance

	IDM160 Standard	IDM160 Bluetooth	IDM160 WLAN
Supported code type	1D / Stacked (depending on ty	pe)	
Bar code types	Codabar, Code 39, Code 32, UPC-A, UPC-E, Standard and Industrial 2 of 5, Interleaved & Matrix 2 of 5, Code 128, UCC/EAN-128, Code 11, Code 93, German ITF Postal Code, Mainland China Postal Code, Telepen, MSI/Plessey, UK/Plessey, Limited/Expanded GS1 DataBar, PDF417, MicroPDF417, Codablock, Composite (depending on type)		
Battery power	-	Over 45,000 scans with full bat	tery
Code buffer	-	5000 Codes (EAN)	-

Interfaces

	IDM160 Standard	IDM160 Bluetooth	IDM160 WLAN
Serial Function	✓ RS-232 TTL		-
Ethernet	-, optional via external connect	tion module (CDM + CMF)	-
CAN bus	-, optional via external connect	tion module (CAN232)	-
PROFIBUS	-, optional via external connect	tion module (CDF)	-
ProfiNet	-, optional via external connect	tion module (CDM425)	-
DeviceNet	-, optional via external connect	tion module (CDM + CMF)	-
PS/2 Function	✓ Keyboard wedge		-
USB Function	✓ Keyboard wedge, COM-Port Emulation		-
Bluetooth Function Protocol	- -	Wireless operating range up to 30 m (free view), batch function for expansion of the wireless radius Bluetooth™ V2.1 EDR, 2.4 2.4835 GHz	- - -
WLAN Protocol	-		✓ IEEE 802.11 b/g
Encryption (WLAN)	-		WEP, WPA, WPA2
Optical indicators	2 LEDs (operational status, good read)	2 LEDs (good read, charge of battery, radio connection status)	1 LED, display
Acoustic indicators	Beeper, disengageable (good re	ead)	Beeper, disengageable
Vibration	Yes		

Mechanics/electronics

	IDM160 Standard	IDM160 Bluetooth	IDM160 WLAN
Operating voltage	5 V DC, ± 5 %		
Housing color	Blue, gray		
Enclosure rating	IP 65		IP 64
Weight	200 g, without cable	266 g, incl. rechargeable battery	275 g, incl. rechargeable battery
Dimensions	104 mm x 76 mm x 185 mm		

Ambient data

	IDM160 Standard	IDM160 Bluetooth	IDM160 WLAN
Shock resistance	50 drops from 2 m height on co	ncrete	
Ambient operating temperature	-20 °C +50 °C		-10 °C +50 °C
Storage temperature	-30 °C +70 °C		
Permissible relative humidity	95 %, non-condensing		
Ambient light safety	100,000 lx		

Ordering information

- Field of application: industrial
- Type: Long Range

Sub product family	Field of applica- tion	Items supplied		Model name	Part no.
		Single scan-	Hand-held scanner, quick start guide	IDM160-01E	6045078 1)
		ner	Traina fiora ocalifici, quion otare garac	IDM160-PDF01E	6045081 ¹⁾
			Kit contains hand-held scanner, interface cable and quick start guide	IDM160 PS/2 Kit	6045076
			Kit contains hand-held scanner, interface cable, power supply and quick start guide	IDM160 RS-232 Power Supply Kit	1056245
IDM160	Industrial	Kit	Kit contains hand-held scanner, interface cable and quick	IDM160 USB Kit	6045058
Standard		nit	start guide	IDM160PDF PS/2 Kit	6045079
			Kit contains hand-held scanner, interface cable, power supply and quick start guide	IDM160PDF RS-232 Power Supply Kit	1056246
			Kit contains hand-held scanner, interface cable and quick start guide	IDM160PDF USB Kit	6045059
		Set	Set contains hand-held scanner, interface cable, CDF600 and quick start guide	IDM160 CDF600 Profibus Set	1056248
		Single scan-	Cordless scanner and battery is included in delivery	IDM160-BT11E	6045085 2)
		ner	Cordiess Scarnier and battery is included in delivery	IDM160-PDFBT11E	6045088 2)
				IDM160BT PS/2 Kit	6045082
				IDM160BT RS-232 Kit	6045083
IDM160 Bluetooth	Cordless, industrial			IDM160BT USB Kit	6045060
		Kit	Kit contains cordless scanner, battery, base station, interface cable, power supply and quick start guide	IDM160PDF BT PS/2 Kit	6045086
				IDM160PDF BT RS-232 Kit	6045087
				IDM160PDF BT USB Kit	6045061

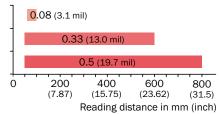
Sub product family	Field of applica- tion		Items supplied		Part no.						
	Single scan- Cordless scanner and battery is included in delivery		IDM160-WLAN12E	6047650 3) 4)							
IDM160 Cordles		ner ordless,		WLAN12E	6047651 ^{3) 4)}						
WLAN	industrial	industrial	industrial	industrial	industrial	industrial	industrial		Kit contains cordless scanner, battery, charging station, USB	IDM160 WLAN Kit	6045062 4)
		Kit	cable, power supply and quick start guide	IDM160PDF WLAN Kit	6045063 ⁴⁾						

 $^{^{\}mbox{\tiny 1)}}$ Required accessories: power supply (if required), cable.

Reading field diagrams

IDM160 Standard IDM160 Bluetooth IDM160 WLAN Long Range

Code resolution in mm (mil)



 $^{^{\}rm 2)}$ Required accessories: cable (if required), base or charging station (if required).

³⁾ Required accessories: charging station and power supply unit.

⁴⁾ Not free of substances harmful to paint moistening process.

IDM160 Hand-held scanners

Accessories

Other mounting accessories

	Brief description	Model name	Part no.	IDM160 Standard	IDM160 Bluetooth	IDM160 WLAN
I	Countertop stand	Countertop stand	6045193	•	•	-
	Desk holder	Desk holder	6045192	•	•	•

Plug connectors and cables

	Brief description	Model name	Part no.	IDM160 Standard	IDM160 Bluetooth	IDM160 WLAN
	Straightened RS-232 TTL cable, 1.8 m, power via pin 9 or power supply unit	Connection cable (plug-socket)	6041540	-	•	_
1	Straightened RS-232 TTL cable, 1.8 m, power via pin 9 or power supply unit	Connection cable (plug-socket)	6045196	•	_	-
M	Straightened PS/2 cable, 2 m	Connection cable (plug-plug)	6036726	-	•	_
1/4	Straightened PS/2 cable, 2 m	Connection cable (plug-plug)	6045194	•	_	-
1	Straightened USB cable, 1.8 m	Connection cable (plug-plug)	6036728	-	•	•
No.	Straightened USB cable, 1.8 m	Connection cable (plug-plug)	6045195	•	_	-
**	Spiral cord RS-232 TTL 3.8 m (fully extracted), power via pin 9 or power supply unit	Connection cable (plug-plug)	6045233	•	_	-
1/4	Spiral cord PS/2 3.8 m (fully extracted)	Connection cable (plug-plug)	6045231	•	-	-
No. of the last	Spiral cord USB 3.8 m (fully extracted)	Connection cable (plug-plug)	6045232 1)	•	-	-

The USB cables no. 6045232 / no. 6039158 only can be used for connecting IDM hand held scanners in "USB HID keyboard" mode. For secure connection in "USB Com Port" mode it is necessary that the host application software is able to detect and to solve connection problems (e.g. caused by voltage drops or other disturbances). In Addition it is recommended when using cables longer than 2 m in USB Com mode, to use an additional, active USB hub in between scanner cable and PC.

Fore more information on connectivity see page 26.

Power supply units

	Brief description	Model name	Part no.	IDM160 Standard	IDM160 Bluetooth	IDM160 WLAN
4416	Power supply unit, input AC 100 240 V, output DC 5 V/2 A	Power supply unit	6036722 ¹⁾	•	•	•

 $^{^{\}mbox{\tiny 1}}$ Power supply is categorized as IT product and does not comply with IEC60601.

Rechargeable batteries and battery chargers

Brief description	Model name	Part no.	IDM160 Standard	IDM160 Bluetooth	IDM160 WLAN
Radio base station; operating voltage 5 V DC	Base station	6045197	-	•	-
Lithium-ion replacement battery for the radio scanners IDM160 Bluetooth	Replacement battery	6041193	-	•	•
Charging station without Bluetooth functionality; operating voltage 5 V DC	Charging station	6045198	-	•	•

Connection options and integration into fieldbuses

Alongside the usual connection options via USB, PS/2 or RS232, SICK hand-held scanners can be integrated into industrial fieldbuses, such as the PROFIBUS, ProfiNet or Ethernet, using SICK fieldbus gateways. Integration with fixed reading devices like the CLV6xx or LECTOR® is also possible.

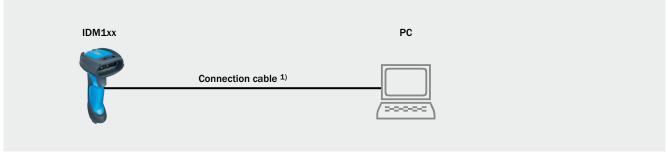


Direct connection to a PC



In order to connect an IDM1xx hand-held scanner directly to a PC, the following is required:

- Connection cable for IDM120/IDM140, see page 18.
- Connection cable for IDM160, see page 24.



¹⁾ RS232 connection may require a power supply or voltage via pin 9.

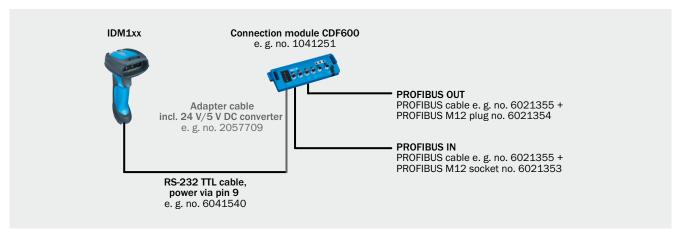
Connection to a network



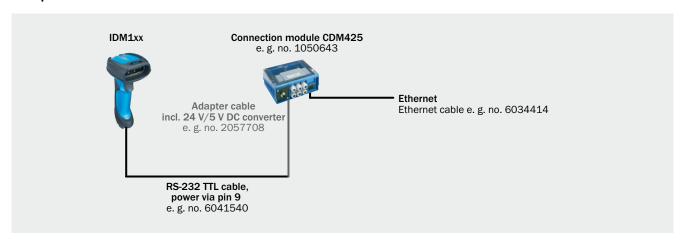
In order to connect an IDM1xx hand-held scanner to a network, the following is required:

- Adapter cable, see page 28.
- Connection cable, see page 28.
- Connection module, see page 29.

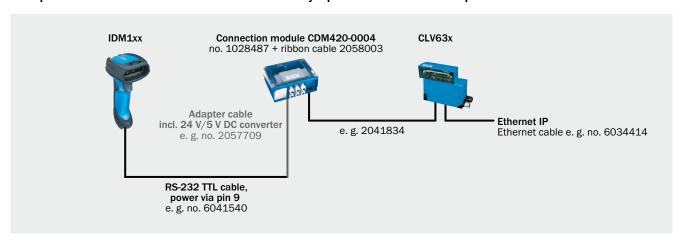
Example of connection to PROFIBUS using CDF600



Example of ProfiNet connection



Example of connection of "hand-held scanner as auxiliary input" to a CLV63x for example



Adapter cables for hand-held scanner – connection module

	Brief description	Model name	Part no.	PROFIBUS via CDM/CMF	PROFIBUS via CDF	DeviceNet	Ethernet	AUX Input	ProfiNet
	ProfiNet Adapter cable (host) incl. 24 V/5 V DC converter for hand-held scanners, 9-pin D-Sub (RS-232) to CDM425 15-pin D-Sub, 0.3 m (plug/plug)	Adapter cable	2057708	_	-	-	_	-	•
	PROFIBUS CDF, AUX Input, Ethernet, DeviceNet Adapter cable (AUX) incl. 24-V/5-V DC converter for hand-held scanners, 9-pin D-sub (RS-232) to CDB620/CDM420/CDF600-0100 15-pin D-sub, 0.3 m (plug/plug)	Adapter cable	2057709	•	•	•	•	•	-

Connection cables for hand-held scanner to adapter cable

	Brief description	Model name	Part no.	IDM120	IDM140	IDM140-BT	IDM160	IDM160-BT
	Straightened RS-232 TTL cable, 1.8 m, power via pin 9	Connection cable (plug-socket)	6041540	•	•	•	-	•
1	Straightened RS-232 TTL cable, 1.8 m, power via pin 9	Connection cable (plug-socket)	6045196	-	-	-	•	-
	Spiral cord RS-232 3.8 m (fully extracted), power via pin 9	Connection cable (plug-plug)	6039156	0	0	-	-	_
**	Spiral cord RS-232 TTL 3.8 m (fully extracted), power via pin 9	Connection cable (plug-plug)	6045233	_	-	-	0	-

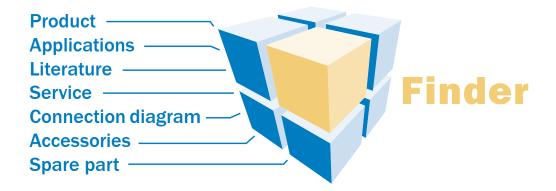
 $[\]bullet$ = required, \circ = optional.

Connection modules

				PROFIBUS via CDM/CMF	PROFIBUS via CDF	Net	et	put	et
	Brief description	Model name	Part no.	PROFIL	PROFII	DeviceNet	Ethemet	AUX Input	ProfiNet
TARE .	Modular connection module for one sensor	CDM420-0001	1025362	•	-	•	•	-	_
Illustration may differ	Modular connection module for two sensors	CDM420-0004	1028487	-	-	-	-	•	_
Illustration may differ	Modular connection module for one sensor, additional M12 socket for PROFINET on face plate	CDM425-00034094	1048488	-	-	-	-	-	•
	Ribbon cable	Connection cable (plug-plug)	2058003	-	-	-	-	•	_
Illustration may differ	PROFIBUS-DP Gateway (IP 20, 9-in. D-Sub socket)	CMF400-1001	1026241	•	-	-	-	_	_
	DeviceNet Gateway (IP 65, M12 plug)	CMF400-2101	1026242	-	-	•	-	-	-
Illustration may differ	Ethernet TCP/IP Gateway (IP 65, RJ45 socket)	CMF400-3101	1026357	-	-	-	•	-	_
	Configuration and diagnosis adapter for CMF400	Programming Adapter (Compro)	2030490	•	-	•	•	-	-
(Hite still	CDF600 fieldbus proxy to connect a IDM1xx to a PROFIBUS network	CDF600-0100	1041251	-	•	-	-	-	_

Notes

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Product Finder: We can help you to quickly target the product that best matches your application.

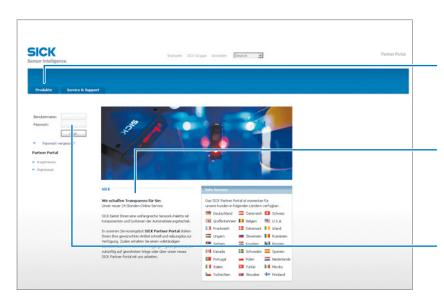
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