



The latest generation of rugged explosion-protected hand-held scanners offers outstanding performance for incomparable capture of 1D/2D barcodes, photos, documents and more. The devices are based on Ultra-Rugged Series Handheld Scanners™ series and are now also available in an explosion-protected version. They are available for ATEX/IECEX and CSA. Further local approvals are available on request. The series consists of a corded and cordless Bluetooth version, which are used in the toughest environments in the world – in warehouses and production halls. These scanners don't just enable every 1D or 2D barcode to be scanned from a distance of up to 2.1 m, but also capture a diverse amount of business information to rationalise everyday business processes such as OCR, documents and photos. Irrespective of the type of data your employees need to collect, you now get all the familiar functions from the industrial application for use in a potentially explosive atmosphere. The result? The most reliable, fastest and most accurate scanning functionality on the market, setting new standards.

Industries	Areas of use
Warehouse management Production	Outstanding data capture for the management of articles in the entire goods flow (incoming and outgoing goods, warehouse management, etc.) Proof of delivery Image capture

Decoding options

1D barcodes	UPC/EAN, UPC/EAN with supplementals, Bookland EAN, ISSN, UCC Coupon Extended Code, Code 128, GS1-128, ISBT 128, ISBT Concatenation, Code 39, Code 39 Full ASCII, Trioptic Code 39, Code 32, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI, Chinese 2 of 5, Matrix 2 of 5, Korean 3 of 5, GS1 DataBar variants
2D barcodes	PDF417, MicroPDF417, Composite Codes, TLC-39, Data Matrix, Maxicode, QR Code, Micro QR, Aztec, Han Xin, GS1-QR, GS1-DM
Postcodes	US Postnet, US Planet, UK Postal, Japan Post, Australia Post, Royal Mail 4 State Customer, KIX Code (Dutch), UPU 4 State Postal FICS (Post US4), USPS 4 State Postal (Post US3)
OCR (optical character recognition, photos and documents)	OCR-A/B, MICR-E13B, Series number of US currency

Decoding ranges

Symbology/resolution	Near/distant
Code 128: 0.127 mm	15.2 to 35.6 cm
Code 128: 0.508 mm	12.7 to 114.3 cm
Code 128: 1.016 mm	7.1 to 203.2 cm
DataMatrix: 0.1905 mm	17.8 to 27.9 cm
DataMatrix: 0.254 mm	15.2 to 38.1 cm



The Bluetooth version is ideal for mobile applications used to collect data from 1D barcodes, 2D barcodes, postcodes and OCR in a potentially explosive atmosphere. The rugged version offers all highly developed ergonomic and functional features required in industrial applications. For the Bluetooth version there are several possibilities to transfer the data via Bluetooth "Single Point-to-Point" or "Multi Point-to-Point".

Explosion protection

Marking ATEX Zone 1/21	II 2G Ex ia ma op is IIC T4 Gb II 2D Ex ia ma op is IIIC T135°C Db IP 64
Marking IECEX Zone 1/21	Ex ia ma op is IIC T4 Gb Ex ia ma op is IIIC T135°C Db IP 64
Marking CSA	Class I, II, III Div. 1 Class I Div. 1 Groups A, B, C and D Class II Div. 1 Groups E, F Class III Class I Div. 1 Class I Div. 1 Groups A, B, C and D T4
Certification	applied for

Technical data

Physical features	
Dimensions (H x W x D)	185 mm x 76 mm x 142 mm
Weight	450 g
Operating current (full operation)	650 mA (typical)
Resting current (stand-by)	4 mA (typical)
Max. input voltage	4.2 V
Max. input power	10 W
Max. input current	10 A
Max. inner capacity	1105.2 µF
Max. inner inductivity	15.96 µH
Colour	Industrial green
Material	Lexane EXL 1414
User displays	Direct decoding display, LEDs, signal tone, vibration
Battery	Lithium-ion 3.6 V/2800 mAh (10.08 Wh)
Cordless connection to	Bluetooth universal supply module, base station, Bluetooth-enabled terminal devices Bluetooth Class 1, Version 4.0 (LE), serial interface (SPP) and HID profile
Radio range (direct visual connection outdoors - laboratory values)	Via Bluetooth universal supply module, base station or Bluetooth-enabled terminal devices Class 1: up to 100.0 m Class 2: up to 10.0 m
Data rate	3 Mbit/s (2.1 Mbit/s) for classic Bluetooth 1 Mbit/s (0.27 Mbit/s) for Low Energy

Performance features	
Illumination	2 x LED, warm white
High-performance scanner 1D/2D imager SE4750 HP	For scanning 1D barcodes, 2D barcodes, postcodes, OCR
User environment	
Ambient temperature	-20 °C to +50 °C
Storage temperature	-40 °C to +70 °C
Relative air humidity	5 % to 95 %, condensing
Protection class	IP 65
Insensitivity to ambient light	0 to 108,000 lux (in direct sunlight)
Programming/service programs	
Programming cable (from PC to scanner via USB)	Available as an option; for the use of ZEBRA Software Tools such as 123Scan Utility to configure hand-held scanners in the safe area on a PC
Programming manual	Permits programming by scanning barcodes. Available at: http://automation.bartec.de/indexE.htm , www.zebra.com
123Scan Utility	Programming of scanner parameters via USB, firmware upgrades, provision of scanned barcode data and printing of reports. Available at: www.zebra.com Programming via the universal supply module is not supported. A cradle for non-hazardous areas and a corresponding USB cable are required in non-hazardous areas.
Scanner Management Service (SMS)	Performs remote administration of your ZEBRA scanners and retrieves its inventory data. Available at: www.zebra.com
Scope of delivery	Battery, Special tool for lock nut, Quick start guide Also required: (not included with delivery) - Battery charger or base station for charging - Universal supply module or base station + connecting cable for data transmission

Technical data subject to change without notice.

Ordering information

Accessories for use in potentially explosive atmospheres

Illustration	Description
	<p>Battery for hand-held scanner Lithium-ion battery 3.6 V/2800 mAh (10.08 Wh) May only be changed outside the potentially explosive atmosphere!</p>
	<p>High quality leather holster for hand-held scanner - for attachment to a belt or wall - Colour: black</p>
	<p>Connection cable Connection between universal supply module and handheld scanner 1.9 m (plain) 4.5 m (plain)</p>
	<p>2.7 m (spiral)</p>

Ordering information

Accessories for use outside potentially explosive atmospheres

Illustration	Description
	<p>4-slot battery charger for hand-held scanner</p> <ul style="list-style-type: none"> - Input voltage: DC 12 V (50 W) - Charging display via LED and sound <p>Additionally required: (not included in delivery)</p> <ul style="list-style-type: none"> - Power supply with DC connecting cable - AC power cable
	<p>Base station for hand-held scanner</p> <ul style="list-style-type: none"> - Input voltage: DC 12 V - Data synchronisation via Bluetooth <p>Supported interfaces:</p> <ul style="list-style-type: none"> - USB - RS232 - Keyboard Wedge* - IBM 468x/469x* <ul style="list-style-type: none"> - Charging the battery inserted in the handheld scanner - LED charge function and charging indicator - Dimensions (H x B x T) 229.4 mm x 99.8 mm 82.6 mm - IP 65 <p>Additionally required: (not included in delivery)</p> <ul style="list-style-type: none"> - Power supply with DC connecting cable - AC power cable -Connecting cable <p>*Connection cable on request.</p>



Ordering information

Accessories for use outside potentially explosive atmospheres

Illustration	Description
	<p>Programming cable - same as USB connecting cable for programming via PC, supports connection via USB only 1.9 m (plain)</p> <p>Additionally required: (not included in delivery)</p> <ul style="list-style-type: none"> - Power supply with DC connecting cable - AC power cable
	<p>Power supply with DC connecting cable for 4-slot battery charger</p> <ul style="list-style-type: none"> - Input voltage: AC 100 V to 240 V - Output voltage: DC 12 V/4, 16 A/50 W
	<p>AC power cable</p> <ul style="list-style-type: none"> - US + Canada - EU + APAC - TAIWAN <p>Other versions on request.</p>
	<p>Connecting cable for handheld scanners</p> <ul style="list-style-type: none"> - Connection between cradle and PC - Cable with terminal for 12 V power supply RS232: 2.0 m (plain) RS232: 4.5 m (plain) USB: 1.9 m (plain) - same as programming cable
	<p>Special tool for lock nut for hand-held scanner</p> <ul style="list-style-type: none"> - For opening and locking the special lock - 5 pieces