



BCS3600^{ex}-NI Hand-held scanner

for Zone 2/Div. 2 hazardous areas



The latest generation of rugged hand-held scanners in the BCS36x8^{ex} series for use in hazardous areas offers outstanding performance forthe unparalleled scanning of 1D/2D barcodes, photos, documents and more. The devices are based on the ZEBRA series "DS3600 Ultra-Rugged Scanners" and are now also available from BARTEC in an explosion-protected version.

The series consists of a corded (BCS3608^{ex}) and cordless (BCS3678^{ex}) Bluetooth version, which are used in the toughest environments in theworld – 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 21.3 m, but also capture a diverse amount of business information, thereby streamlining 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 BCS3600^{ex} series therefore offers a new level of reliability for scanners.

The result? The most reliable, fastest and most accurate scanning functionality on the market, setting new standards.

The hand-held scanner BCS3600^{ex}-NI is approved for ATEX/IECEx Zone 2/22 and NEC Class I, II, III Div.2.

Further local certifications are possible on customer request.

- Extraordinary scanning range
- 100,000 + scans per charge
- Captures up to 20 barcodes simultaneously
- Ultra-rugged
- Widest range of supported interfaces

Outstanding performance

Your employees can scan information at high speed – virtually all current barcodes under any conditions. Photos range from those documenting the condition of incoming deliveries, through to providing images for electronic archiving. It is not even a problem if barcodes are damaged, soiled or have been printed in poor quality – this intelligent scanner can handle them all.

Ultra-rugged design

There is hardly any place as tough as in the warehouse or the production plant. For this reason we have now also developed a version of the DS3608 and DS3678 from ZEBRA that can be used in hazardous areas. These models are available in a corded and cordless design, and are the most robust scanners on the market.

Unrivalled handling simplicity

With the tools available, these scanners are easy to use. You can remotely configure and extend your scanners, format data for an immediate transfer to your business applications and much more.

Outstanding scan performance with 1D/2D barcodes in every environment

The advanced imager reads 1D and 2D barcodes on a monitor or label faster and with a 30 % larger working area than comparable models of this class for unsurpassed productivity. Employees are able to successfully scan virtually any barcode at the first attempt, even if it is damaged, dirty, poorly printed or under shrink-wrap.

Ultra-rugged – the toughest design in its class

The BCS3608^{ex}/BCS3678^{ex} is our most rugged scanner yet. It has the great-est ability to withstand drops and tumbles, and has the best seal in its class. Both models are dust-proof, spray-proof and waterproof in accordance with IP 65.

More than just barcodes capture OCR, photos and documents

With ZEBRA's intelligent document capture, photos are taken, refocused and corrected to make them easier to read. Several OCR typefaces are supported, ensuring fast and simple data transfer (photos can only be transferred to the host PC with the Bluetooth hand-held scanner via the base station).

Simple handling with the original complimentary tools from ZEBRA

You can use the original ZEBRA tools for DS3608-HP/ DS3608-ER and DS3678-HP/DS3678-ER. The tools available also include the 123Scan Utility and the Scanner Management Service (SMS), which offer a remote method of configuring scanners, performing firmware upgrades and formatting data appropriately for your backend systems.

Capture and processing of up to 20 barcodes simultaneously (Multi Code Data Formatting - MDF)

Many labels have several barcodes which need to be scanned by your staff. Now, one press of the trigger captures the right barcodes and applies the unique data format required for each one for instant transmission to your back-end systems – all with complete control over the order barcodes are processed.

Faster pick-list processing

Users can easily select and read an individual barcode from any pick list.

A Bluetooth model in a class of its own for superior cordless freedom

Bluetooth 4.0 (Low Energy) provides a lightning fast connection and maximum energy efficiency. The ZEBRA Wi-Fi friendly mode puts an end to the inter-ference frequently caused by Bluetooth devices in Wi-Fi environments. The compact and rugged cradle offers excellent flexibility and durability. The BCS3678^{ex} is the only scanner of this product family with a cradle in the IP 65 class of protection. Its charging contacts withstand 250,000 insertions.

The first-in-its-class 'battery charge gauge' and Bluetooth status LED make it easy to monitor battery power as well as Bluetooth connectivity.

The Power Precision +/- battery is the ultimate in battery performance and management.





BCS3608ex-NI Hand-held scanner

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The corded version is ideal for stationary 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. The corded version requires a universal supply module to guarantee excompliant voltage supply and data communication.

Explosion protection

| Marking ATEX | ᅠ II 3G Ex ic op is IIC T4 Gc ᠃ II 3D Ex ic op is IIIC T135°C Dc IP 64 |
|---------------|---|
| Certification | EPS 16 ATEX 1 113 X |
| Marking IECEx | Ex ic op is IIC T4 Gc Ex ic op is IIIC T135°C Dc IP 64 |
| Certification | IECEx EPS 16.0050X |
| Marking NEC | Class I Div. 2 Groups A, B, C and D Class II Div. 2 Groups G, F Class III; T4 |
| Certification | ETL 5012876 |

Other approvals and certificates, see **www.bartec.com**

User environment

| Operating temperature | -20 °C to +50 °C (-4 °F to 122 °F) |
|-----------------------------------|--|
| Storage temperature | -40 °C to +70 °C (-40 °F to 158 °F) |
| Relative humidity | 5 % ~ 95 % (condensing) |
| Protection class (IEC 60529) | IP 65 |
| Insensitivity to ambient light | 0 to 108.000 lux (in direct sunlight) |
| Drop Specification | Survives multiple drops from 3 m (118.1 inch) onto concrete |
| Tumble Specification | 7.500 tumbles from a height of 1 m (39.4 inch) |

Technical data

| Size (H x W x D) | 185 mm x 76 mm x 132 mm (7.3 inch x 3.0 inch x 5.2 inch) | |
|---------------------------------------|--|--|
| Weight (without cable) | with Scanner SE4750-HP: approx. 309 g (approx. 0.68 lb) with Scanner SE4850-ER: approx. 334 g (approx. 0.74 lb) | |
| Color | Industrial green | |
| Material | Polycarbonate (PC) | |
| Notification | Direct decoding display, LEDs, signal tone, vibration | |
| Operating current (full operation) | 500 mA (typical) | |
| Resting current (stand-by) | 128 mA (typical) | |
| Input voltage | 5 V | |
| Max. input power | 2.75 W | |
| Max. input current | 550 mA | |
| | | |

| Power supply | using universal supply module from BARTEC or other Ex-compliant supply module | |
|---|--|--|
| Supported interfaces | Hand-held scanner to the universal supply module RS232 (TTL-Pegel) | |
| Illumination | 2 x LED, warm white | |
| Barcode capture | – SE4750-HP: 1D/2D High-performance scanner; omnidirectional; reading range up to 2.1 m (7 ft) depending on type, size and quality of the barcode | |
| | SE4850-ER: 1D/2D High-performance scanner with extended range; omnidirectional; reading range up to 21.3 m (70 ft.) depending on type, size and quality of the barcode | |
| | Available data capture options/tools: see table | |
| | – Supported symbologies/barcodes: see table | |
| Programming cable USB (from PC to hand- held scanner) | 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: automation.bartec.de/indexE.htm or zebra.com | |
| 123Scan Utility (Freeware) | Programming of scanner parameters via USB, firmware upgrades, provision of scanned barcode data and printing of reports. Available as freeware at: zebra.con | |
| | Programming via the universal supply module is not supported. | |
| | – Programming cable (B7-A2Z0-0046) is required in non-hazardous areas. | |
| DataCapture DNA | A technology platform of highly intelligent firmware, software and utilities . It perfectly supports the offered hardware solution to personalize the customer solution. For more information on these Zebra-only features, please visit zebra.com/datacapturedna | |
| Warranty | 1 year for Hand-held scanner 6 months for accessories | |
| Service contracts | COMFORT and ALL-IN | |
| Scope of delivery | – BCS3608 ^{ex} -NI Hand-held scanner – Quick Start Guide | |
| Also required | (not included in the delivery) | |
| | – Universal supply module | |
| | Connecting cable or HMI limiting cable for data transmission | |
| | | |

Accessories

See datasheet: BCS3600^{ex}-NI Accessories It is absolutely necessary to use original accessories from BARTEC!

Ordering information

| BCS3608ex-NI | Scanner SE4750-HP | B7-A2S4-1HPO |
|--------------|-------------------|--------------|
| | Scanner SE4850-ER | B7-A2S4-1ER0 |





BCS3678ex-NI Hand-held scanner

for Zone 2/Div. 2 hazardous areas



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 (Transfer of photos to the host PC is only possible via the base station). 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, either "Single Point-to-Point" or "Multipoint-to-Point".

Explosion protection

| Marking ATEX | ☺ II 3G Ex ic op is IIC T4 Gc ☺ II 3D Ex ic op is IIIC T135°C Dc IP 64 |
|---------------|---|
| Certification | EPS 17 ATEX 1 177 X |
| Marking IECEx | Ex ic op is IIC T4 Gc Ex ic op is IIIC T135°C Dc IP 64 |
| Certification | IECEx EPS 17.0090X |
| Marking NEC | Class I Div. 2 Groups A, B, C and D Class II Div. 2 Groups G, F Class III; T4 |
| Certification | ETL 5012876 |
| <u></u> | e |

Other approvals and certificates, see www.bartec.com

User environment

| Operating temperature | -20 °C to +50 °C (-4 °F to 122 °F) |
|--|--|
| Charging temperature | 0 °C to +45 °C (32°F to 113°F) |
| Storage temperature (without battery) | -40 °C to +70 °C (-40 °F to 158 °F) |
| Relative humidity | 5 % ~ 95 % (condensing) |
| Protection class (IEC 60529) | IP 65 |
| Insensitivity to ambient light | 0 to 108.000 lux (in direct sunlight) |
| Drop Specification | Survives multiple drops from 3 m (118.1 inch) onto concrete |
| Tumble Specification | 7.500 tumbles from a height of 1 m (39.4 inch) |
| | |

Technical data

| Size (H x W x D) | 185 mm x 76 mm x 142 mm (7.3 inch x 3.0 inch x 5.6 inch) | |
|------------------------|---|--|
| Weight (without cable) | with Scanner SE4750-HP: approx. 411 g (approx. 0.91 lb) | |
| | with Scanner SE4850-ER: approx. 436 g (approx. 0.96 lb) | |
| Color | Industrial green | |
| Material | Polycarbonate (PC) | |
| Notification | Direct decoding display, LEDs, signal tone, vibration | |
| Battery | Lithium-Ion 3.6 V/3150 mAh (11.34 Wh) Charge only with the following accessories: Base station (Type G7-A2Z0-0010) or 4-slot battery charging station (Type G7-A2Z0-0013) | |

| Bluetooth | Bluetooth Class 1, Version 4.0 (LE), serial interface, USB-HID and USB-SPP via base station and USB-SPP via universal supply module Bluetooth - Radio range: (direct visual connection outdoors - laboratory values) via universal supply module Bluetooth, base station or Bluetooth-enabled device Class 1: up to 100 m (328 ft.), Class 2: up to 10 m (33 ft.) | |
|---|---|--|
| | – Data rate: 3 Mbit/s (2.1 Mbit/s) for classic Bluetooth, 1 Mbit/s (0.27 Mbit/s) for Low Energy | |
| Illumination | 2 x LED, warm white | |
| Barcode capture | SE4750-HP: 1D/2D High-performance scanner; omnidirectional; reading range up to 2.1 m (7 ft) depending on type, size and quality of the barcode SE4850-ER: 1D/2D High-performance scanner with extended range; omnidirectional; reading range up to 21.3 m (70 ft.) depending on type, size and quality of the barcode | |
| | – Available data capture options/tools: see table | |
| | Supported symbologies/barcodes: see table | |
| Programming cable USB (from PC to hand- held scanner) | 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: automation.bartec.de/indexE.htm or zebra.com | |
| 123Scan Utility (Freeware) | Programming of scanner parameters via USB, firmware upgrades, provision of scanned barcode data and printing of reports. Available as freeware at: zebra.com. Programming via the universal supply module is not supported. Base station (Type B7-A2Z0-0010) and a corresponding USB cable is required | |
| DataCapture DNA | in non-hazardous areas. A technology platform of highly intelligent firmware, software and utilities . It perfectly supports the offered hardware solution to personalize the customer solution. For more information on these Zebra-only features, please visit zebra.com/datacapturedna | |
| Warranty | 1 year for Hand-held scanner 6 months for battery and accessories | |
| Service contracts | COMFORT and ALL-IN | |
| Scope of delivery | – BCS3678® Hand-held scanner – Battery – Special tool for lock nut – Quick Start Guide | |
| Also required | (not included in the delivery) Battery charging station or base station for charging Universal supply module or base station + connecting cable for data transmission | |

Accessories

See datasheet: BCS3600^{ex}-NI Accessories It is absolutely necessary to use original accessories from BARTEC!

Ordering information

| BCS3678 ^{ex} -NI | Scanner SE4750-HP | B7-A2S4-2HP1 |
|---------------------------|-------------------|--------------|
| | Scanner SE4850-ER | B7-A2S4-2ER1 |





Available data capture options / tools

| Multi-Code Data Formatting (MDF) | Scan multiple barcodes with a single trigger pull. | |
|-------------------------------------|---|--|
| Label Parse+ | Instantly parse GS1 label barcode data to improve quality control, inventory visibility and traceability. | |
| UDI Scan+ | Unlock the benefits of UDI (Unique Device Identification) to improve efficiency. | |
| PRZM Intelligent Imaging | PRZM sets the bar for 2D imaging by enhancing decode performance and snappiness, dramatically improving the user experience. | |
| Preferred Symbol | It is a barcode prioritization technique that lets one barcode, scanned among other barcodes, to be singled out for decoding while excluding the others. | |
| Intelligent Document Capture* | Eliminate the cost and space required for a document scanner. Capture an image while processing barcode data and automatically optimize image appearance by de-skewing and brightening. | |
| WI-FI Friendly Mode | Utility to avoid interfering with a wireless network. | |

* only with Scanner SE4750-HP

Supported Symbologies/Barcodes

| 1D/Linear Symbol/Codes | Bookland EAN | Code 128 | Korean 3 of 5 |
|---------------------------------------|---------------------------------|--------------------------------------|------------------------------|
| | Chinese 2 of 5 | Discrete 2 of 5 | Matrix 2 of 5 |
| | Codabar | GS1-128 | MSI |
| | Code 11 | GS1 DataBar variants | Trioptic Code 39 |
| | Code 32 | Interleaved 2 of 5 | UCC Coupon Extended Code |
| | Code 39 | ISBT 128 | UUPC/EAN/JAN with |
| | Code 39 Full ASCII Code 93 | ISBT Concatenation ISSN | supplementals |
| | Code 93 | 1221/ | |
| 2D Stacked and 2D Matrix Symbol/Codes | Aztec | GS1-DM | Micro QR |
| | Composite Codes | Han Xin | PDF417 |
| | Data Matrix | Maxicode | QRCode |
| | GS1-QR | MicroPDF417 | TLC-39 |
| Postal Symbol/Codes | Australian Post (4-state) | Japanese Post (4-state) | US Postnet |
| | British Post (4-state) | Netherlands (KIX) Post | US Planet |
| | Canadian Post (4-state) | Postnet | USPS 4 State Postal (US4CB) |
| | Chinese 2 of 5 | UPU 4 State Postal FICS | |
| OCR* (6 to 60 point OCR typeface) | MICR-E13B | OCR-A/B | Serial number of US currency |
| UID Support | Supports IUD parsing. | | |
| | The ability to read and separa | ate IUID fields according to applica | tion requirements. |
| Digimarc** | Digital watermarking technology | | |
| Document and Photos | Basic capture | | |
| | Advanced capture* | | |
| | | | |

*only with Scanner SE4750-HP ** only with Scanner SE4850-ER

