

BCS3600^{ex}-IS Hand-held scanner

for Zone 1/Div. 1 hazardous areas



The latest generation of rugged hand-held scanners in the BCS36x8^{ex} series for use in hazardous areas offers outstanding performance for the unparalleled scanning of 1D/2D barcodes, photos, documents and more. The devices are based on the ZEBRA series “DS3608-HP/DS3678-HP 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 the world – in warehouses and production halls. These scanners not only enable 1D or 2D barcodes to be scanned, they can also be used to capture a wide range 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 hazardous areas. The BCS3600^{ex} series therefore offers a new level of reliability for scanners.

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

The hand-held scanner BCS3600^{ex}-IS is approved for ATEX/IECEX/UKEX Zone 1/21. The Bluetooth hand-held scanner BCS3678^{ex}-IS is also approved for Class I, II, III Division 1.

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 (photos can only be transferred to the host PC via the base station). 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 the DS3608-HP and DS3678-HP series. 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.

BCS3608^{ex}-IS Hand-held scanner

for Zone 1 hazardous areas



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	⊕ II 1G Ex ia ma op is IIC T4 Ga ⊕ II 1D Ex ia ma op is IIIC T135°C Da IP 64
Certification	EPS 18 ATEX 1199 X
Marking IECEx	Ex ia ma op is IIC T4 Ga Ex ia ma op is IIIC T135°C Da IP 64
Certification	IECEx EPS 18.0100X
Marking UKEX	⊕ II 1G Ex ia ma op is IIC T4 Ga ⊕ II 1D Ex ia ma op is IIIC T135°C Da IP 64
Certification	CML 21 UKEX2343X

Other approvals and certificates, see www.bartec.com

User environment

Operating temperature	-20 °C to +50 °C (-4 °F to 122 °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 132 mm (7.3 inch x 3.0 inch x 5.2 inch)
Weight (without cable)	approx. 382 g (approx. 0.84 lb)
Color	Industrial green
Material	Polycarbonate (PC)
Notification	Direct decoding display, LEDs, signal tone, vibration
Operating current (full operation)	254 mA (typical)
Resting current (stand-by)	85 mA (typical)
Input voltage	apprx. 8.2 V
Max. input power	2.06 W
Max. input current	254 mA
Power supply	using universal supply module from BARTEC
Supported interfaces	Hand-held scanner to the universal supply module RS232 (TTL-Pegel)
Illumination	2 x LED, warm white

Barcode capture	<ul style="list-style-type: none"> – SE4750-HP: 1D/2D High-performance scanner omnidirectional – 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)	<p>Programming of scanner parameters via USB, firmware upgrades, provision of scanned barcode data and printing of reports. Available as freeware at: zebra.com</p> <ul style="list-style-type: none"> – Programming via the universal supply module is not supported. – Programming cable (Type 17-A1Z0-0020) 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	<ul style="list-style-type: none"> – BCS3608^{ex}-IS Hand-held scanner – Quick Start Guide
Also required	<p>(not included in the delivery)</p> <ul style="list-style-type: none"> – Universal supply module – Connecting cable or HMI limiting cable for data transmission

Accessories

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

Ordering information

BCS3608 ^{ex} -IS	17-A1S4-1HP0
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BCS3678^{ex}-IS Hand-held scanner

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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 1G Ex ia ma op is IIC T4 Ga ⊕ II 1D Ex ia ma op is IIIC T135°C Da IP 64
Certification	EPS 17 ATEX 1177 X
Marking IECEx	Ex ia ma op is IIC T4 Ga Ex ia ma op is IIIC T135°C Da IP 64
Certification	IECEx EPS 17.0090X
Marking NEC	Ex ia ma op is IIC T4 Ga Ex ia ma op is IIIC T135°C Da IP 64 Zone 0 AEx ia ma op is IIC T4 Ga Zone 20 AEx ia ma op is IIIC T135°C Da Class I, Division 1, Groups A, B, C and D Class II, Division 1, Groups E, F and G Class III, Division 1; T4
Certification	UL E226123
Marking UKEX	⊕ II 1G Ex ia ma op is IIC T4 Ga ⊕ II 1D Ex ia ma op is IIIC T135°C Da IP 64
Certification	UL E226123

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 (with battery)	approx. 491 g (approx. 1.08 lb)
Color	Industrial green
Material	Polycarbonate (PC)
Notification	Direct decoding display, LEDs, signal tone, vibration
Battery	Lithium-ion 3.6 V/2800 mAh (10.08 Wh) Charge only with the following accessories: Base station (Type 17-A1Z0-0014) or 4-slot battery charging station (Type 17-A1Z0-0013)

Bluetooth	<p>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</p> <ul style="list-style-type: none"> - 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 (300ft.), Class 2: up to 10 m (30 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	<ul style="list-style-type: none"> - SE4750-HP: 1D/2D High-performance scanner omnidirectional - 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)	<p>Programming of scanner parameters via USB, firmware upgrades, provision of scanned barcode data and printing of reports. Available as freeware at: zebra.com</p> <ul style="list-style-type: none"> - Programming via the universal supply module is not supported. - Programming cable (Type 17-A1Z0-0020) 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	<ul style="list-style-type: none"> - BCS3678^{ex}-IS Hand-held scanner - Battery - Special tool for lock nut - Quick Start Guide
Also required	<p>(not included in the delivery)</p> <ul style="list-style-type: none"> - Battery charging station or base station for charging - Universal supply module or base station + connecting cable for data transmission

Accessories

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

Ordering information

BCS3678 ^{ex} -IS	17-A1S4-2HP1
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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.

Supported Symbolologies/Barcodes

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




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