TECHNICAL DATASHEET

EXTRONICS
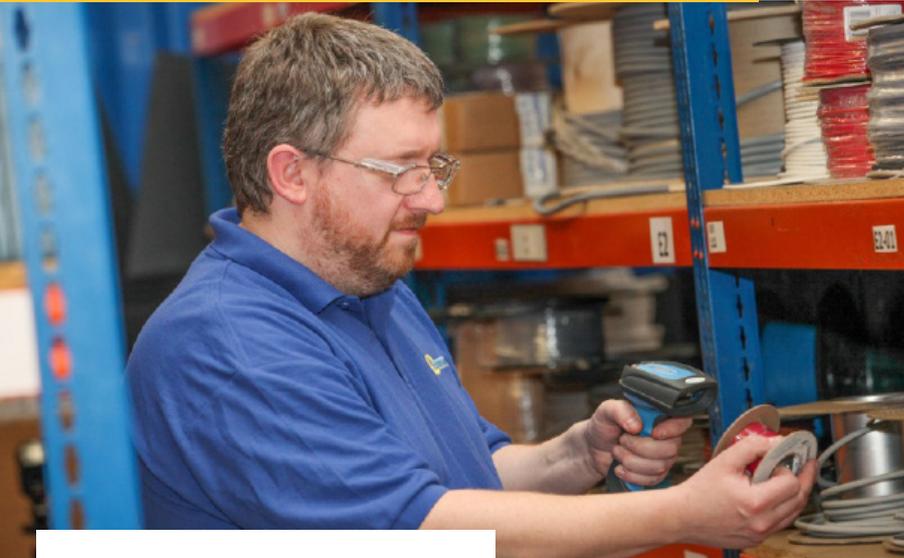

iSCAN 211

Handheld Bluetooth barcode scanner for Zone 1 and 21 hazardous areas

Use alongside a base station, smartphone, or tablet with wireless Bluetooth link

Variants to read all standard 1D, 2D, and stacked PDF barcodes

ATEX and IECEx Zone 1 and 21 certified

RS232/RS422 or USB interface options

IP65 fully rugged

Lightweight and easy to handle with ergonomic grip

Visual, audio, and vibration feedback for user

High speed scanning, up to 60 scans per second

Wider scan line and long reading distance for easy use

Works effectively in bright sunlight, up to 100,000 lux

Variety of accessories available

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CODE TYPES

1D barcode types	Code 39, Code 39 Trioptic, Code 32, Code 93, Code 11, Codabar, Code 128, GS1-128 / EAN 128, UPC / EAN / JAN (with addition), MSI/Plessey, UK/Plessey, IATA, Interleaved 2 of 5, Standard and Industrial 2 of 5, Matrix 2 of 5, Telepen, GS1 DataBar, Australian Post, China Post, German Post, US Planet, US Postnet, British Post, Intelligent Mail, Japan Post, Korean Post, Dutch KIX Post
Stacked PDF barcode types	PDF417, MicroPDF417, Code 49, Code 16K, Composite, Codablock F
2D barcode types	Data Matrix, QR Code, MicroQR-Code, Aztec, MaxiCode

SYSTEM ASSEMBLY

Hazardous area charging:

This assembly requires a base station (iSCAN211EXB3), a power supply (iSCANPSx), a connection cable between the two (iSCAN2XXCAB5, 6, 9, or 10), and connections between the power supply and a PC (not supplied by Extronics).

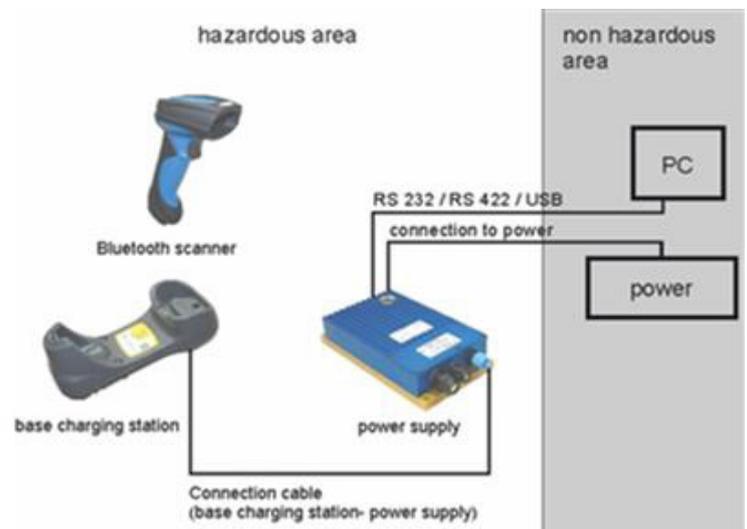External connection cable requirements:

Data cable
USB: 0.2 – 2.5 mm^2, 4-wire
RS232: 0.2 – 2.5 mm^2, 3-wire

Power supply cable
0.2 – 2.5 mm^2, 3-wire

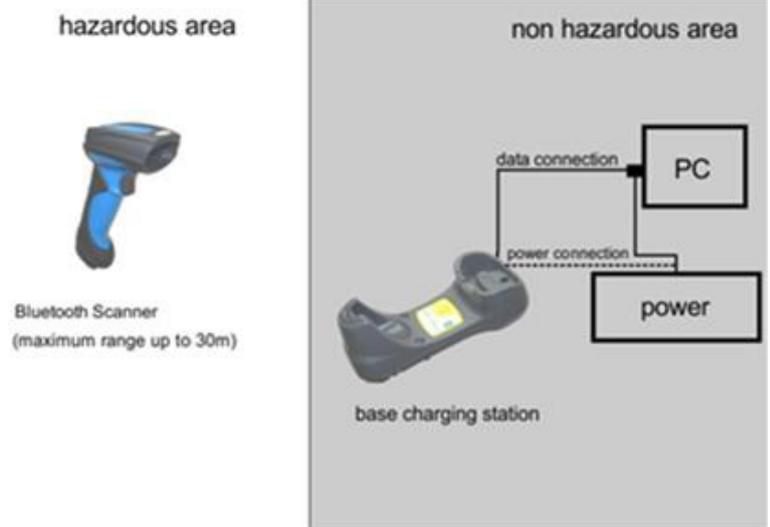*For technical information on the iSCANPS, please refer to the product manual*

Safe area charging:

This assembly requires a non-Ex base or charging station (iSCAN211B3 or iSCAN211BNOBT3).

If connecting the base or charging station to a PC via USB, the USB cable (iSCAN2XXCAB3 or 4) can provide both data and power connections in one cable.

If connecting the base or charging station to a PC via RS232 (iSCAN2XXCAB1 or 2), this can only support data. The base or charging station will require an additional power connection (iSCAN2XXBLP).

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SPECIFICATION

Certification	**iSCAN211, iSCAN211PDF:** ⟨Ex⟩ II 2G Ex ib IIB T4 Gb, ⟨Ex⟩ II 2D Ex ib IIIC T135°C Db **iSCAN2112D:** ⟨Ex⟩ II 2G Ex ib op is IIB T4 Gb, ⟨Ex⟩ II 2D Ex ib op is IIIC T135°C Db
Dimensions	H185 x L104 x W76 mm
Weight	260g (handset including battery)
Ingress protection	IP65
Ambient operating temperature	-20°C to +50°C
Humidity	± 95 %, non condensing
Ambient light resistance	100,000 lux
Bluetooth	V4.0, 2.402 … 2.4830 GHz Wireless operating range up to 100 m (line of sight), batch function to expand wireless radius, up to seven scanners communicate with one base station
Scanning frequency	**iSCAN211 and iSCAN211PDF:** 500 Hz **iSCAN2112D:** 60 Hz
Light source	Visible red light 630 nm
Reading distance	**iSCAN211 and iSCAN211PDF:** 20 to 850 mm **iSCAN2112D:** 30 to 400 mm
User feedback signals	2 LEDs (operation status and read feedback) Audio beeper Vibration
Base station interface	RS232/RS422 or USB
Battery	Lithium ion battery, 3.6V, ≤ 2250mAh
Operating voltage	4.9V, supplied via iSCANPSx
Required accessories	+compatible base or charging station *(if connecting the Bluetooth scanner to an alternative Bluetooth device e.g. tablet, a base station may not be required. However, a charging station is still necessary. A base station also acts as a charging station)* + compatible cable to connect base station to power supply (iSCAN2XXCABX) + compatible power supply (iSCANPSx if using the base station in the hazardous area; iSCAN2xxBLP if using a base/charging station in the safe area) *For details of options, please see Ordering Information*

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ORDERING INFORMATION

Handsets

ISCAN211	iSCAN211 handheld Bluetooth scanner, handset and battery only, reads 1D barcodes, Zone 1/21 certified
ISCAN211PDF	iSCAN211 handheld Bluetooth scanner, handset and battery only, reads 1D and stacked PDF barcodes, Zone 1/21 certified
ISCAN2112D	iSCAN211 handheld Bluetooth scanner, handset and battery only, reads 1D, stacked PDF, and 2D barcodes, Zone 1/21 certified

HAZARDOUS AREA CHARGING:

Base station

ISCAN211EXB3	Base station for all iSCAN211 versions, without cable, Zone 1/21 certified

Cable to connect base station to power supply

ISCAN2XXCAB5	Base station connection cable, RS232, 1.8 m, Zone 1/21
ISCAN2XXCAB6	Base station connection cable, RS232, spiral, 3.8 m, Zone 1/21
ISCAN2XXCAB9	Base station connection cable, USB 1.8 m, Zone 1/21
ISCAN2XXCAB10	Base station connection cable, USB, spiral, 3.8 m, Zone 1/21

Power supply

ISCANPS1	Power supply module, DC 24V, RS232, Zone 1/21
ISCANPS2	Power supply module, DC 24V, USB, Zone 1/21
ISCANPS3	Power supply module, AC 230V, RS232, Zone 1/21
ISCANPS4	Power supply module, AC 230V, USB, Zone 1/21

SAFE AREA CHARGING:

Base or charging station

ISCAN211B3	Base station for all iSCAN211 versions, without cable, non-Ex
ISCAN211BNOBT3	Charging station for all iSCAN211 versions, without Bluetooth, without cable, non-Ex

Cable to connect base or charging station and PC

ISCAN2XXCAB1	Base station connection cable, RS232, 1.8 m
ISCAN2XXCAB2	Base station connection cable, RS232, spiral, 3.8 m
ISCAN2XXCAB3	Base station connection cable, USB 1.8 m
ISCAN2XXCAB4	Base station connection cable, USB, spiral, 3.8 m

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ORDERING INFORMATION

Power supply for base or charging station (if RS232)

ISCAN2XXBLP — Power supply for base or charging station, DC 5V, non-Ex

OPTIONAL ACCESSORIES:

Battery

ISCAN2X1BATT — Spare lithium ion battery for iSCAN211, Zone 1/21

Stands

ISCANSTRI — Tripod stand for all iSCAN1xx and iSCAN2xx variants

ISCANSTAB — Tabletop stand for all iSCAN1xx and iSCAN2xx variants

Extension cables (RS232 only)

ISCANCC1 — Extension cable with male connector, 6 m, Zone 1

ISCANCC2 — Extension cable with male connector, spiral, 4.5 m, Zone 1

Please note that these extension cables may only be used with iSCAN2XXCAB1, 2, 5, or 6 options (RS232).