iSCAN301 1D and 2D image code reader

- Reads standard 1D, stacked PDF, and 2D images
- ATEX / IECEx Zones 1, 2, 21, and 22 certified
- Range of interfaces for wide compatibility
- Fully rugged IP66
- Accurate and reliable

Highly reliable
The iSCAN301 uses a physical trigger input function, rather than a code trigger function. This increases the reliability of first time transfer on both stationary and moving objects.

Reads curved objects
Powerful integrated, controllable LED illumination means that curved objects can be homogenously lit and codes read clearly, without the need for an external light source.

Simple configuration
Easy to configure via the Ethernet interface. The live image output makes it easy to align and set up in the field.

Serial Interface
The scanned barcode are output over the RS232 interface.

Advanced accuracy
The iSCAN301 has a high read rate even with difficult low contrast or poorly printed codes. This makes it ideal for DPM (Direct Print Marking) applications.

Code types read by the iSCAN301:

1D code types:
GS1-128/EAN 128, UPC/GTIN/EAN, Interleaved 2 of 5, Pharmacode, GS1 Databar, Code 39, Code 128, Codabar, Code 32, Code 93

Stacked code types:
PDF417, PDF417 Truncated

2D code types:
Datamatrix ECC200, GS1 Datamatrix, QR code

Extronics Limited
1 Dalton Way, Midpoint 18, Middlewich, Cheshire, UK. CW10 0HU
Tel: +44 (0) 845 277 5000 **Fax:** +44 (0)845 277 4000 **E-mail:** info@extronics.com **Web:** www.extronics.com

Specification

Certification	Ⓔx II 2 G Ex d IIC T5 or T6 Gb Ⓔx II 2 D Ex tb IIIC T85°C or T100°C Db, IP66
Dimensions	H224 x W224 x D152 mm (including mounting flanges) Mounting centres 198 x 198 mm (11mm diameter)
Weight	Approx. 5.5kg
Ingress protection	IP66
Enclosure material	Grade LM6 Cast Alloy Epoxy Coated
Ambient operating temperature	-20°C to +55°C
Humidity	90 %, non condensing
Ambient light resistance	2,000 lx
Image recording rate	60 Hz at 752px x 480px (WVGA resolution)
Light source	Illumination LEDs: visible red light (λ= 617 ± 15nm) Visible blue light (λ= 470 ± 15nm)
Electrical connection	21x AKZ 2.5 terminals for component cores for power and data
Mechanical connection	2 off M20 cable entries in bottom face Cable glands quoted upon request (Cable spec required)
Host data interface	**Serial:** RS232 or RS422 300baud to 115.2 Kbaud **CAN:** 20kbit/s to 1Mbit/s
Configuration port	**Ethernet:** 10/100 Mbit/s
Operating voltage	10 – 30V
Power consumption	Max. 3W
Code qualification	ISO/IEC 16022, ISO/IEC 15415, ISO/IEC 18004, ISO TR 29158/AIM DPM
Scanning operation	Laser can operate as always on or via control signal. Control signal can be hardware or a software trigger. Client to configure - refer to user manual.

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