

2D handheld scanner with imaging technology for versatile use in retail

The EL81 2D handheld scanner with imaging technology has a wide range of applications in various retail segments such as department stores, petrol stations, drugstores, pharmacies and more. The 2D imaging technology provides excellent results when capturing linear, 2D and GS1 Databar™ labels. The image capture, long decoding range and large decoding area support intuitive and fast capture even of display surfaces.

Versatility and Performance at the POS

The advantages of the EL 81 2D handheld scanner's imaging technology are clearly evident in the detection and decoding of linear 1D, 2D and GS1 Databar™ labels. Labels that are difficult to read, e.g. cut-off and non-standard or poorly printed barcodes, are captured with high performance in both handheld and presentation mode. A retailer's requirements for intuitive capture of linear 1D, 2D and GS1 Databar™ barcode labels are met without special alignment of the barcode label on paper or article packaging or a display surface. This scanning performance and its wide decoding range enables fast and smooth scanning transactions throughout the store. The barcode recognition of display surfaces opens up further application possibilities for users, such as mobile couponing and mobile ticketing in amusement parks, stadiums and drive-thru, where electronic labels are used.

Ergonomics and Reliability

The lightweight, ergonomic design of the EL81 is very robust and offers the rugged durability that operators need for several hours of intensive scanning. The scanner's key optical components are also protected against dust and liquids to IP52, and the recessed scan window eliminates scratches and dirt that could compromise scanning performance. This increased product reliability and the image technology used in the EL81 are further criteria for a long product life, which ensures low operating costs.

Powered From the POS with Several Connection Options

The EL81 is powered directly via the powered interface of the Diebold Nixdorf POS system. Investment protection is provided by the 2D image handheld scanner with multi-interface interface (USB, RS232), which only requires a simple exchange of the interface cable when changing the system environment and enables optimal Plug&Play compatibility with DN middleware products of current and future DN POS systems.



Highlights

2D handheld scanner EL81 at a glance:

- Suitable for universal use at department stores and other retail outlets
- Recognition of linear 1D, 2D and GS1 DataBar™ barcodes
- Optics with large decoding area and decoding range
- Barcode recognition on smartphones, displays and mobile devices
- Lightweight, ergonomic design
- Excellent multi-code scanning performance for hard-to-read and poorly printed barcode labels
- Omnidirectional scanning in both handheld and presentation modes
- Multi-interface support
- Acoustically-read confirmation
- Low-power consumption
- Powered directly from interface of Diebold Nixdorf POS systems
- Plug&Play compatibility with Diebold Nixdorf middleware products

Technical Specifications

INTERFACES

- RS232
- USB

SYSTEM VERSIONS

- 2D handheld scanner, multi-interface
- DS4608 Image Scanner SR black
- DS4608 Image Scanner SR white

Additional interface cable alternatives

- Straight RS232 POT 3.00 m
- Straight USB Type A 2.00 m
- Coiled USB Type A 2.70 m
- Coiled PoweredUSB 2.00 m
- Coiled PoweredUSB 2.70 m
- Coiled PoweredUSB 4.50 m

Stand (optional)

- Stand flexible black
- Stand universal black

POWER SUPPLY

- RS232 / USB
via powered Interface COM* /USB
- Power consumption: 340 mA (operating)

ENVIRONMENTAL CONDITIONS

- Operating temperature : 0 to +50 Grad C
- Storage temperature : -40 to +70 Grad C
- Humidity: 5 to 95% rel. (without condensation)
- Drop specification: withstands multiple drops on concrete 1.80 m
- Protection class: IP52

READING CHARACTERISTICS

- Resolution: 4 mils
- Image sensor: megapixel resolution (1,280 x 800)
- Image field of view: 36,1° x 22,6° (V x V)
- Image capture:
Graphic format: BMP, JPEG, TIFF
- Light source:
Aiming pattern: 617 nm
Illumination: several LED's 660 nm
- Ambient light:
0 - 107,000 Lux / 10,000 foot candle
- Reading angle:
Roll (Tilt): 0 - 360°, Pitch: ±60°, Skew (Yaw): ±60°

BARCODE TYPES

- Linear1D-Barcodes:
UPC A /UPC E, EAN 8/EAN 13, GS1 Databar™ Codes, GS1 Databar Stacked, GS1 Databar Expanded Stacked, GS1 Databar Stacked Omnidirectional, Interleaved 2 of 5, Standard 2 of 5, Code 128/ GS1-128, Code 39, Code 93, Codabar
- 2D-Barcodes:
PDF417, MicroPDF417, Datamatrix, MaxiCode, QR Code, MicroQR, Aztec Code

APPROVALS

- CE, KCC/Korea, VCCI/Japan, BSMI/Taiwan, BSI/India, C-Tick/Australia, EAC Zollunion Russland/Belarus/Kasachstan, UL USA, CSA Canada, China ROHS, EU ROHS

Dimensions



Height: 165 mm (6.49 inches)
Width: 67 mm (2.63 inches)
Depth: 98 mm (3.85 inches)
Weight: 162 gram (5.71 ounces)

The look, dimensions, capabilities or other characteristics of this hand held scanner are subject to continual improvement and change.



Stand flexible black



Stand universal black