

IT 3800

Bar Code Hand-Held Scanner

Hand-Held Line



IT 3800 – the new class of Imaging-Technology

The IT 3800 is setting a new standard for hand-held scanners in the bar code identification industry. Bad printed bar codes, low print-contrast or damaged quiet zones? Large reading distance in combination with extraordinary depth of field? All these challenges of identification applications are no problem for the IT 3800.

The newly developed, innovative CCD linear imaging technology is building the base for the dramatic performance improvement. In addition the illumination concept has greatly improved. Therefore the IT 3800 is emitting a bright, sharp aiming line with high resolution imaging to deliver exceptional reading performance.

As a result of the use of these new technologies the IT 3800 is beating all CCD hand-held scanner records with respect to maximum reading distance, reading quality, depth of field and is a great alternative to standard laser hand-held scanners.

Besides the optical performance there are many outstanding features which are making the IT 3800 a bestseller. This hand-held scanner is smoothly contoured to fit all sized hands, and also has a soft grip area to add comfort and to prevent slipping. Its aesthetically pleasing look surrounds a rugged, durable construction, built for demanding work environments.

As an option the IT 3800 can also be ordered to decode the Code PDF 417.

Benefits:

- Complete product family for any application available
- LR option for the identification of all popular code symbologies
- PDF option guarantees fast, accurate, economical PDF 417 data capture
- Ultra-High-Density option to identify bar codes with very small module width
- ESD option designed for the stringent requirements of clean room assembly of sensitive electronic components
- LX option made for demanding applications with a maximum reading distance up to 455 mm at a bar code module width of 0.38 mm
- IR option for identification of laminated bar codes with infrared light

The IT 3800 at a glance:

- Real world reading performance
- Reading distance up to 455 mm
- Scanning frequency up to 270 Hz
- 5 years warranty

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Technical Data

Type	IT 3800
Scanner design	Hand-Held Linear Imager
Light source	Red light LED ($\lambda = 630 \text{ nm}$)/Infra Red Light ($\lambda = 880 \text{ nm}$ for IR version only)
Ambient light compability	Max. 70,000 lux
Scanning/decoding frequency	Max. 270 Hz (adjustable)
Versions	IT 3800 LR Long-Range-Imager IT 3800 LX Extra Long-Range-Imager IT 3800 PDF PDF 417 and linear bar codes IT 3800 VHD Very High-Density-Imager IT 3800 ESD Meeting additionally the ESD specification for clean room environment
Reading distance/resolution 0.33 mm	IT 3800 LR 25 ... 240 mm IT 3800 LX 20 ... 350 mm IT 3800 PDF 75 ... 120 mm IT 3800 VHD 25 ... 240 mm
Reading width	180 mm at 180 mm reading distance (LR and VHD Version)
Min. resolution	0.075 mm (VHD version)
Code types	All popular bar codes/optional PDF 417
Optical indicators	1 x LED for Good Read
Acoustic indicators	Beeper for Good Read
Data interface	- Keyboard wedge for PCs and Terminals - Keyboard emulation - Wand emulation - RS 232 (TTL-level), optional RS 232 True - Laser Out (HHLC) - USB
Operating voltage	5 V DC \pm 10 %
Current consumption	At 270 Scan/s: 275 mA (standby 125 mA, switch-on 300 mA) At 67 Scan/s: 150 mA (standby 125 mA, switch-on 300 mA)
Housing	Polycarbonate/ABS-blend, UL 95V0
EMC Test	According to IEC 60801
Mechanical shock	25 drops from 1.5 m to concrete at room temperature
Weight	Approx. 180 g
Dimensions	135 mm x 152 mm x 78 mm
Temperature (ambient operating/storage)	0 °C ... + 50 °C/- 20 °C ... + 60 °C
Rel. humidity	0 ... 95 %, non-condensing

Order No.	Product
6 020 935*)	IT 3800 LR-12, RS 232 TTL, wand emulation, keyboard wedge, HHLC, USB
6 022 202*)	IT 3800 LR-13, RS 232 True
6 021 578*)	IT 3800 VHD/ESD-12, RS 232 TTL, wand emulation, keyboard wedge, HHLC, USB
6 021 576*)	IT 3800 VHD-12, RS 232 TTL, wand emulation, keyboard wedge, HHLC, USB
6 021 577*)	IT 3800 LR/ESD-12, RS 232 TTL, wand emulation, keyboard wedge, HHLC, USB
6 022 661*)	IT 3800 LX-12, RS 232 TTL, wand emulation, keyboard wedge, HHLC, USB
6 022 203*)	IT 3800 PDF-12, RS 232 TTL, wand emulation, keyboard wedge, HHLC, USB
On request	IT 3800 IR, RS 232 TTL, wand emulation, keyboard wedge, HHLC, USB
On request	Additional products like interface cables for connection to various terminals and keyboards or power supply unit and other accessories

*) Note: For setting-up operation, an interface cable and a power supply unit are additionally required



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