

IT 4800 Bar Code Hand-Held Scanner Hand-Held Line



IT 4800 – Industrial identification of 2-D Codes with Adaptus™ Imaging Technology

The IT 4800 is setting a new standard in industrial 2-D Code identification.

The hand-held scanner IT 4800 reliably identifies two-dimensional (2-D) symbologies and even all popular linear bar codes and stacked bar codes (Examples: Data Matrix, PDF 417, Code 128). In addition this unit is also able to automatically capture OCR fonts, signatures and standard text.

A new innovative, minimised matrix camera technology combined with extremely improved decode algorithms facilitates high performance code and font identification. This video technology is also building the basis for omnidirectional scanning for any code symbology.

The IT 4800 has no moving parts, the housing is mounted with steel screws and is protected against impact by rubber bumpers. These measures result in a high degree of robustness and stability.

Aside from this the IT 4800 is sealed against dust and water with an enclosure rate IP 54. The hand-held scanner is designed for cold industrial applications or outdoor using at all times due to a min. operating temperature of $-10\text{ }^{\circ}\text{C}$.

The universally designed data transmission interface enables any connection of the IT 4800 to the most common PCs or terminals. The hand-held scanner transmits the decoded information to a terminal or host over keyboard wedge/-emulation, RS 232, USB or wand emulation for further processing.

Its optical and reading performance, ergonomic design, robustness, low temperature resistance and sealed housing leads to a world class and SUV performance in Imaging Technology. The IT 4800 is an ideal choice for almost all industrial applications in material handling.

Your benefits:

- Fast and reliable identification of poor quality matrix codes
- Identification of all popular linear bar codes
- OCR font identification
- Bright intuitive aiming line
- Omnidirectional scanning
- Connection to various interfaces
- Easy-to-use due to configuration via bar codes
- Setup software for easy and clear programming

The IT 4800 at a glance:

- Reading distance up to 315 mm
- Optical and acoustical good read signal
- Manual trigger
- Flash Memory for software update
- Robust, compact housing
- Ergonomic design
- IP 54 enclosure rating
- Cold resistant operating $-10\text{ }^{\circ}\text{C}$
- 3 years warranty

Technical Data

Type	IT 4800
Scanner design	Hand-Held 2-D Imager
Light source	Visible red light ($\lambda = 630$ nm), laser class I
Ambient light compatibility	Max. 100,000 lux
Rotational sensitivity	Omnidirectional
Versions	IT 4800 SR Standard Range 2-D Imager IT 4800 HD High Density 2-D Imager
Reading distance/resolution	74...178 mm/0.20 mm with linear bar code (SR Version) 79...150 mm/0.38 mm with Data Matrix code (SR Version)
Reading width	110 x 146 mm ² at 213 mm reading distance (SR Version)
Min. resolution	0.20 mm with linear bar code (SR Version) 0.38 mm with Data Matrix code (SR Version)
Code types	- Matrix Codes: Maxicode, Data Matrix, QR Code, Atztec - OCR Fonts: OCR-A, OCR-B - Stacked bar codes: PDF 417, Micro PDF, Code 49 - Linear bar codes: all popular symbologies, Postnet
Optical indicators	1 x LED for Good Read
Acoustical indicators	Beeper for Good Read
Data interface	- Keyboard wedge for PCs and terminals - Keyboard emulation - Wand emulation, optional Laser-Out (HHLC) - RS 232 (TTL-level), optional RS 232 True, - USB
Operating voltage	4.5 ... 14 V DC
Current consumption	- At 5 V DC: 375 mA (Standby 46 mA) - At 12 V DC: 165 mA (Standby 37 mA, Switch-on 225 mA)
Housing	Polycarbonate/UL 94V0
Enclosure rating	IP 54
EMC test	EN 55022 Class B, EN 55024:1998, EN 61000-3-2, EN 61000-3-3, EN 60950
Mechanical shock	50 drops from 2 m to concrete at -10 °C
Vibration	Withstands 5 g peak from 22 up to 300 Hz
MTBF	> 82,000 h (Ground-Benign acc. to MIL-HDBK-217F)
Weight	Approx. 213 g (without cable)
Dimensions	163 mm x 135 mm x 81 mm
Temperature (ambient operating/storage)	-10 °C ... +50 °C / -40 °C ... +60 °C
Rel. Humidity	0 ... 95 %, non-condensing

Order No.	Product
6 028 167*)	IT 4800SR 032C, RS 232 True
6 028 168*)	IT 4800HD032C, RS 232 True
6 028 169*)	IT 4800SR 052C, RS 232 TTL, wand emulation, keyboard wedge, USB
6 028 170*)	IT 4800HD 052C, RS 232 TTL, wand emulation, keyboard wedge, USB
On request	IT 4800SR/HD 002C RS 232 TTL, HHLC
On request	Additional products such as interface cables for connection to various terminals and keyboards or power supply unit and other accessories

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

SICK

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