IT 5800
Bar Code Hand-Held Scanner
Hand-Held Line

IT 5800 – Adaptus™ Imaging Technology reads up to 2.1 m

The IT 5800 is setting a new standard in industrial identification of linear bar codes. The newest and high perform-ance Linear Imaging Technology reads up to 2.1 m.

This Linear Imager, as a result of inte-grated illumination, has a brighter, wider and sharper aiming line than conventional standard laser scanners. This clearly facilitates aiming at the bar code – even on objects difficult to access.

As a result of a high scanning and decoding frequency the IT 5800 has a great performance for multiple reads or poor quality bar codes.

The IT 5800 has no moving parts, the housing is mounted with steel screws and is protected against impact by rubber bumpers. These measures result in an extremely high degree of robustness and durability.

Aside from this the IT 5800 is sealed against dust and water with an enclo-sure rate IP 54. The hand-held scan-ner is designed for cold industrial applications or outdoor using at all times due to a min. operating temperature of –30 °C.

The universally designed data trans-mission interface enables any con-nection of the IT 5800 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 Technol-ogy. The IT 5800 is an ideal choice for almost all industrial applications in material handling.

Your benefits:

- Fast and reliable bar code identification
- Standard-Range option for the identification of all popular code symbologies
- HD option to identify bar codes with very small module width
- Connection to various interfaces
- Easy-to-use due to configuration via bar codes
- Setup software for easy and clear programming

The IT 5800 at a glance:

- Reading distance up to 2.1 m
- 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 –30 °C
- 3 years warranty

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Technical Data

Type	IT 5800
Scanner design	Hand-Held Linear Imager
Light source	Visible red light (λ= 630 nm), Laser class I
Aiming beam (optional)	Visible red light (λ= 650 nm), Laser class II
Ambient light compatibility	Max. 70,000 lux
Decoding frequency	270 Hz
Versions	IT 5800 SR Standard Range Imager IT 5800 HD High Density Imager
Reading distance/resolution	38 ... 1067 mm/0.51 mm; 102 ... 2083 mm/1.40 mm (SR Version)
Reading width	254 mm at 381 mm reading distance (SR Version)
Min. resolution	0.19 mm (SR Version)
Code types	All popular bar codes
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, 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: 235 mA (Standby 68 mA, Switch on 350 mA) - At 12 V DC: 142 mA (Standby 49 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 –30 °C
Vibration	Withstands 5 g peak from 22 up to 300 Hz
MTBF	> 100,000 h (Ground-Benign acc. to MIL-HDBK-217F)
Weight (without/with aiming beam)	Approx. 213 g/239 g (without cable)
Dimensions	163 mm (165 mm with aiming beam) x 135 mm x 81 mm
Temperature (ambient operating/storage)	–30 °C ... +50 °C/–40 °C ... +60 °C
Rel. humidity	0 ... 95 %, non-condensing

Order No.	Product
6 028 179*)	IT 5800SR 030, RS 232 True
6 028 180*)	IT 5800HD 030, RS 232 True
6 028 181*)	IT 5800SR 050, RS 232 TTL, wand emulation, keyboard wedge, USB
6 028 182*)	IT 5800HD 050, RS 232 TTL, wand emulation, keayboard wedge, USB
On request	IT 5800HD/SR 000, RS 232 TTL, Laser-Out (HHLC)
On request	IT 5800HD/SR 031/051/001, with additional aiming beam
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.

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