



## IT3800i / IT3820i Bar Code Hand-held Scanner

### Hand-held Line

#### IT3800i / IT3820i – Durability for industrial applications

The IT3800i/IT3820i is setting a standard in industrial identification of linear bar codes.

Compared to conventional laser scanners, the IT3800i scan line is brighter and therefore better visible. 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 IT3800i has a great performance for multiple reads or poor quality bar codes.

The IT3800i 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 IT3800i is sealed against dust and water with an enclosure rate IP 54.

The universally designed data transmission interface enables any connection of the IT3800i to the most common PCs or terminals. The hand-held scanner transmits the decoded information via PS/2 keyboard wedge, RS 232, USB or wand emulation for further processing.

With IT3820i you have the possibility of cordless identification. The IT3820i offers the same durability of corded IT3800i. Codes can be read inside a 10 m radio range. Outside this range codes will be stored inside an internal buffer. For long availability IT3820i is equipped with a modern lithium ion battery. A thumb wheel end-cap offers easy access to the battery, permitting users a quick swap.

Its optical and reading performance, ergonomic design, robustness and sealed housing leads to a world class performance in Imaging Technology. IT3800i/IT3820i is an ideal choice for demanding industrial applications.



#### Your benefits:

- Fast and reliable bar code identification also on bad quality codes
- High availability through robust housing
- High flexibility through corded and cordless versions
- Easy to use through bright scan line and ergonomic design

#### The IT3800i / IT3820i at a glance:

- Reading distance up to 2.1 m (IT3800i)
- Cordless model IT3820i
- RS 232, PS/2 and USB interface
- Robust, compact housing, IP 54
- Ergonomic design
- 3 years warranty (battery of IT3820i 1 year)

## Technical Data

Type	IT3800i	IT3820i	IT2020
Product	Bar code hand-held scanner		Base and charging station
Light source	Visible red light ( $\lambda = 630 \text{ nm}$ )		-
Ambient light compatibility	Max. 70,000 lux		-
Scanning/decoding frequency	270 Hz		-
Reading distance/resolution	38 to 1,067 mm/0.51 mm; 102 to 2,083 mm/1.4 mm	25 to 910 mm/0.51 mm; 64 to 1,110 mm/1.4 mm	-
Reading width	254 mm at 381 mm reading distance	250 mm at 420 mm reading distance	-
Minimum resolution	0.19 mm	0.127 mm	-
Code types	All popular bar codes		-
Optical indicators	1 x LED for Good-read	1 x LED for Good-read, low battery and RF communication status	2 x LED for data transmission, system and battery power status
Acoustical indicators	Beeper for Good-read	Beeper for Good-read and RF communication status	Beeper for state of readiness and RF communication status
Data interface	<ul style="list-style-type: none"> <li>• Keyboard wedge for PCs and terminals</li> <li>• Keyboard emulation</li> <li>• Wand emulation</li> <li>• RS 232 (TTL-level)</li> <li>• RS 232 True (IT3800i standard, IT3820i optional)</li> <li>• USB</li> </ul>		
Operating voltage	4.5 to 14 V DC	3.8 V DC (lithium ion battery)	4.5 to 9 V DC (max. 12 V DC via host port)
Current consumption	<ul style="list-style-type: none"> <li>• At 5 V DC: 235 mA (stand by 68 mA, switch on 350 mA)</li> <li>• At 12 V DC: 142 mA (stand by 49 mA)</li> </ul>		<ul style="list-style-type: none"> <li>• At 90 V DC: max. 750 mA (when charging)</li> </ul>
Housing	Polycarbonate/UL 94V0		
Enclosure rating	IP 54		IP 41
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		50 drops from 1.2 m to concrete
Vibration	Withstands 5 g peak from 22 up to 300 Hz		
MTBF	> 100,000 h (Ground-Benign acc. to MIL-HDBK-217F)	> 80,000 h (Ground-Benign acc. to MIL-HDBK-217F)	
Weight	Approx. 213 g (without cable)	272 g (with battery)	250 g (without cable)
Dimensions	163 mm x 135 mm x 81 mm		75 mm x 142 mm x 109 mm
Temperature (operating/storage)	0 to +50 °C/-40 to +60 °C	-10 to +50 °C/-40 to 60 °C	0 to 50 °C/-40 to 60 °C
Rel. humidity	0 to 95 %, non-condensing		

## Ordering Information

Order No.	Type	Description
6028179 <sup>*)</sup>	IT3800ISR030	Bar code hand-held scanner, RS 232 True
6028181 <sup>*)</sup>	IT3800ISR050	Bar code hand-held scanner, RS 232 TTL, wand emulation, keyboard wedge, USB
6037210	IT3820ISR-SERKITBE	Kit containing IT3820ISRE, base station IT2020-5BE, straight RS 232 TTL cable, power supply with european power cord, quick start guide
6037211	IT3820ISR-USBKITBE	Kit containing IT3820ISRE, base station IT2020-5BE, straight USB cable, power supply with european power cord, quick start guide
6037212	IT3820ISRE	IT3820i, lithium ion battery
On request	Additional products such as interface cables for connection to various terminals and keyboards or power supply units and other accessories	

<sup>\*)</sup> For setting-up operation an interface cable and if needed a power supply unit are additionally required.