

ISO 18000-7 HandHeld Interrogator



ISO 18000-7 HandHeld Interrogator provides highly accurate data collection for increased productivity, streamlined business operations and provides real-time connectivity to critical applications. The handheld form factor provides the flexibility of a mobile device and a full functionality of an RFID reader and a computer, all in one rugged ergonomic package.

As one of the most rugged handheld devices on the market, this handheld passes industry's most stringent drop and tumble tests and provides IP64 sealing rating as well as integrated internal antennas for flexibility to use in nearly any environment.

This handheld provides long battery life for a full shift through superior power management. It is powered by a single replaceable, rechargeable battery and provides rechargeable spare battery with a charging cradle.

Modular keypads, a rugged touch panel and a display that is easy to view inside and outside in direct sunlight provide users with maximum readability, ease-of-use and comfort. The handheld provides options for user-programmable functions featuring a full alphanumeric data entry system as well as special characters.

Using advanced UHF radio frequency technology, ISO 18000-7 HandHeld Interrogator transmits and receives data at distances of more than 50 meters (150 feet) and communicates with all ISO 18000-7 transponders including Data Rich, Sensor, and Container Security Active Transponders.

The standardized anti-collision multi-tag-handling algorithm allows communication to tags even when thousands of tags are within the interrogator's read zone.

The handheld features Wireless LAN capability with built in 802.11 (b/g) WiFi, USB connectivity to the host using a cradle and powerful OS Microsoft Windows Mobile 5.0.

Features

- Over 50-meters (150 ft) read/write range
- Weighs approximately 2.2 pounds (1kg)
- 300 x 240 color touch-screen display
- Power management
- WiFi 802.11 b/g and USB
- ISO / IEC 18000-7 compatible
- Extremely rugged
- IP64 sealing
- Windows Mobile 5.0
- Holster and belt clip

Benefits

- Allows automated identification, tracking and tracing of assets over long distances.
- Low weight allows for prolonged use without user fatigue and wrist injuries.
- Display supports color GUI, and provides high resolution as well as easy readability inside and outside even in a direct sunlight and backlit. The display is a touch-screen enabled and fits more than 80 characters without scrolling.
- Battery usage is optimized for long lasting performance. Battery is easily replaceable and rechargeable.
- Provides wireless communication capability and in addition also a USB connection to the host through a cradle.
- Manufacturer independent interoperation. US DoD and NATO ITV compatible.
- Withstands multiple drops to concrete from 6 ft and over 2,000 one-meter tumbles.
- Provides sealing against environmental elements for use in various conditions.
- Reliable and powerful operating system for mobile devices features robust application support.
- Options for easy portability and freeing the hands of users between usage.

IDEN TEC SOLUTIONS

IDEN TEC SOLUTIONS is a leading global supplier of innovative RFID systems (Radio Frequency Identification) with communication ranges of up to 100 m.

With its unique Intelligent Long Range® (ILR®) technology, IDEN TEC SOLUTIONS offers innovative and economical solutions for automated data gathering, identification, tracking and localization of objects.

ILR® technology makes it possible to ensure that

- the right goods,
- in the right amounts,
- in the right condition,
- with the right information
- are located at the right place
- at the right time,

leading to increased efficiency and quality improvements in Production, Logistics and Supply Chain Management. To learn more about how ILR® technology can increase efficiency of your business, contact IDEN TEC SOLUTIONS or visit our website at www.identecsolutions.com.

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This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Technical Specifications

Performance

Read rate Up to 100 tags/s (Collect Tag Identification Code only)
Max. response time < 150 ms (single tag)

Communication

Read range Up to 50 m (150 feet) @ free air
Write range Up to 50 m (150 feet) @ free air
Operating frequency 433.92MHz
Data rate (download to tag) 27.778 Kbits/s
Data rate (upload to reader) 27.778 Kbits/s
Frequency 433.92MHz international ISM band
Modulation FSK ± 50 kHz at 27.778 kHz data rate
Standards / Certification ISO/IEC 18000-7

Host Communication

Wireless 802.11 b/g
Wired USB 2.0 (through the cradle)

Power Source

Battery Removable, rechargeable 7.2 volt Lithium Ion 2200 mAh battery pack, 15.8 watt hours

Memory

Memory size 64 MB RAM and 128 MB ROM
Identification code 32 bit fixed ID

Operating System

Type Windows Mobile 5.0 (optionally higher)

Environmental

Operating temperature -10C° to +50C°
Storage temperature -40C° to +60C°
Humidity 5% to 95% relative humidity (non-condensing)
Drops Multiple drops to concrete: 6 ft./1.8 m across the operating temperature range
Tumble 2,000 one-meter tumbles at room temperature (4,000 hits)

Physical

Dimensions 10.75 in. L x 4.7 in. W x 7.7 in. H
27.3 cm L x 11.9 cm W x 19.5 cm H
Weight 35.4 oz./1 kg (includes battery, scanner and radio)
Enclosure rating IP 64

Accessories

Holster, Belt Clip
AC Power Adapter (geographically specified)
Rechargeable Battery, and Battery Charger
Charging/docking cradle with USB connection

WARNING: Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment

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