iDTRONIC
PROFESSIONAL RFID

Handheld Computer
I-COLLECT 2.0

APPLICATIONS

- Retail Markets
- Stock Management
- Libraries
- Access Control

FEATURES

- 2D Barcode Reader
- HF RFID Reader
- Bluetooth Connection
- USB 2.0 Interface
- 5 Vdc Power Supply
- 1.600 mAh
- Windows, Android, Linux
- IP54 Protection Class
- Light-Weight: 98 g

RFID OPTIONS

- **HF** (ISO 14443A, ISO 15693)

PRODUCT DESCRIPTION

The datacollector I-COLLECT 2.0 combines the ability of RFID and Barcode reading with an robust IP54 housing.

The internal HF reader provides an reading range of up to 4 centimeters. In addition to the RFID reader, the I-COLLECT 2.0 is equipped with an 2D Barcode scanning option for a complete range of applications within retail, logistics or stock management.

Flexible communication options via BLUETOOTH and the light-weight of only 98 g offers a handy and real time communication way for many scanning solutions with a host device. As host systems, the I-COLLECT 2.0 supports Windows, Android or LINUX operating systems.

In addition the device can be operated independently due to the internal memory for up to 100.000 datasets (tags and barcodes).

The internal 1.600 mAh li-ion polymer battery allows a scanning time of up to 14,000 in total or 1,000 per hour.

The Datacollector can be operated in two modes. The mode can be set in the software. The HID mode works as keyboard emulation. It can be connected to a keyboard via the Bluetooth interface. The data is entered directly at the PC. The I-COLLECT 2.0 can also work as a data collector. The data is scanned and then transferred to the PC via USB or Bluetooth.

TECHNICAL DATA

PHYSICAL CHARACTERISTICS

Dimensions	50.4 × 24.8 × 118.4 mm
Weight	Net 98 g
Material	ABS
Keypads	1 Control Key
Battery	1.600 mAh Scanning time: 14,000 times in total 1,000 times per hour

PERFORMANCE CHARACTERISTICS

Storage	100,000 data sets (tags and barcodes)
Interfaces	USB + Bluetooth
Signals	LED + Buzzer
Imaging Sensor	960 * 640 COMS
Scanning mode	Manual-Press, Auto-Scan and Continuous Scan
Keyboard support	Multiple language, including minority language
Light Type	Wave length = 675 nm ±3 nm, High-light NIR LED
Recognition precision	Code 39, 6.6 mil
Scanning speed	1500 times per second
Contrast	20 %
Second development	Not available
Angle range	Horizontal 72°, Vertical 82°, Rotate 360°

PROGRAMMING ENVIRONMENT

Operating Systems	Windows XP/ 7/8/10, Android, Linux

USER ENVIRONMENT

Operating | Storage Temperature	-20 to +55 °C | -40 to +60 °C 5 % - 95 % RH (Non-condensing)
Drop Specifications	Freely falling 3 times within 1.5 meter Bearable
Sealing	IP54

COMMUNICATION

WPAN	Bluetooth Class v2.1+EDR, Bluetooth v3.0+HS, Bluetooth v4.0
Transmit Range	15 m
Transmit Power	20 dBm
Receiver Power	20 dBm

2D BARCODE IMAGER

2D CMOS Imager	Honeywell N6603 / Newland EM3396
Symbologies	PDF417, Micro QR, DataMatrix, QR code, Aztec

RFID READER

Frequency	HF: 13.56 MHz
Protocol	ISO 14443 A ISO 15693
Baudrate	115.200 bit/s
R/W Range	Up to 4 cm*

SUPPORTED STANDARDS / TAGS

ISO 14443 A	MIFARE® Classic 1K /4K, MIFARE Ultralight®, MI-FARE Ultralight® C, NTAG 21x,MIFARE DESFire, MIFARE Plus, and all other ISO14443A RFID tags
ISO 15693	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)

RETAIL MARKETS

The Datacollector I-COLLECT 2.0 is ideally suited for recording stock levels within textile shops.

Due to its compact and lightweight design, it can be easily transported by using the available hand strap.

The Datacollector can collect 1,000 garments per hour. Its storage capacity is sufficient for more than 100,000 tags and barcodes.

LIBRARIES

The I-COLLECT 2.0 data collector can be used to record books within the lending area.

Missing or not-returned books can be assigned and tracked using the unique ID.

This facilitates the organization of the library. Traceability prevents book loss.

ACCESS CONTROL

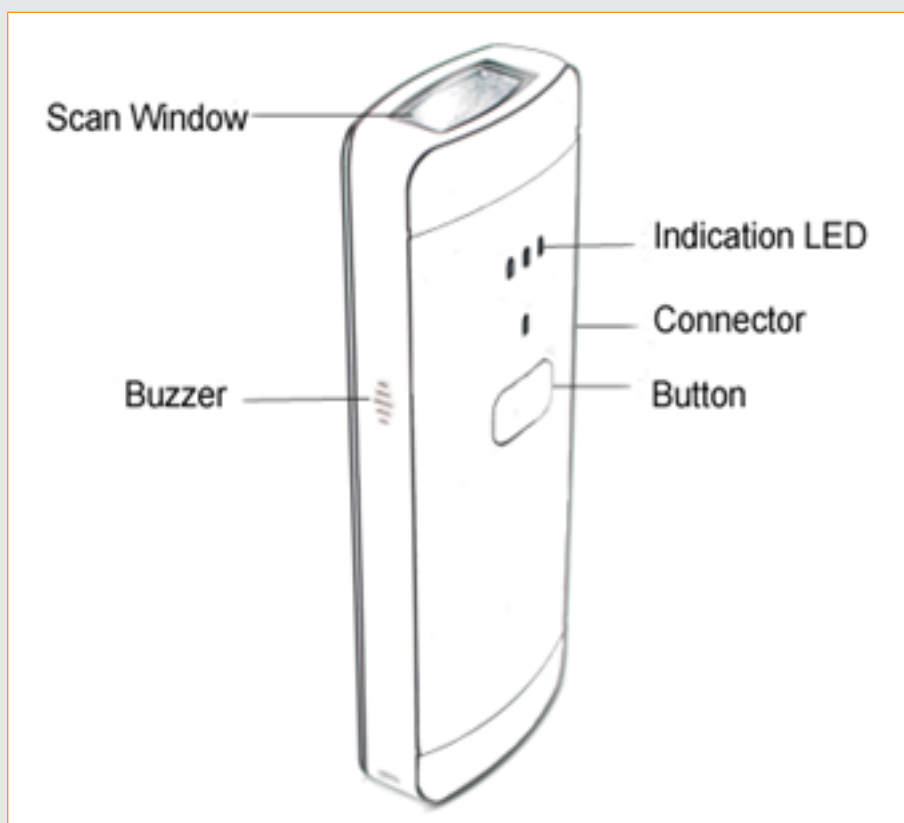The I-COLLECT 2.0 is particularly well suited for access control applications.

Events such as concerts, musicals or operas use special 2D barcodes on the tickets. This can be easily captured by using I-COLLECT 2.0.

The fast detection ensures a rapid flow of visitors. Counterfeit tickets can be eliminated.

PRODUCT PICTURES

PRODUCT FUNCTIONS

Scan Window

Indication LED

Connector

Buzzer

Button

CONFIGURATION SOFTWARE

CONFIGURATION TOOL

FILE   ABOUT   EXIT

SYSTEM CONFIGURATION

FUNCTION LIST   [▽]   CREATE CODE

NOTE: PLEASE REFER TO DETAIL USER MANUAL WHEN DO FUNCTION SETTING!

RFID OUTPUT FORMAT

WORKING MODE   [▽]

MEMORY ADDRESS   [▽]   DATA POSITION   0   DATA LENGTH   1

KEY   [▽]   KEY   FF FF FF FF FF FF

OUTPUT FORMAT   [▽]   CREATE CODE

SETTING CODE

PLEASE SCAN THIS CODE TO SET COLLECTOR'S WORKING MODE

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ORDER CODES

VERSION	ORDER CODE
I-COLLECT $^{2.0}$ HF + 2D Barcode Imager	R-HH-ICO-HF-2D

ACCESSORIES	ORDER CODE
Hand Strap	R-HH-ICO-AC-HST
Spare Battery	R-HH-ICO-AC-PS