

SHENZHEN CHAINWAY INFORMATION TECHNOLOGY CO., LTD

SR160 UHF Scanner



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Statement

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Chainway SR160 is a powerful UHF Scanner that supports both UHF RFID and 2D scanning. Adopting self-developed UHF RFID modules based on the latest Impinj E310 chip and offering excellent single-tag read/write performance, SR160 can read various electronic tags on the market fast and accurately with a maximum reading range of more than 30cm. The scanner also supports high-performance barcode scanning which can scan barcodes in all conditions, no matter whether they are scratched, dirty, damaged, poorly printed or displayed on the screen. SR160 can be widely used in retail chains, inventory management, warehouse logistics, manufacturing, and other application scenarios.

1. Appearance



2. Device Connection

- (1) SR160 can be connected with PC through its cable.
- (2) PC and software management, where UHFAPP.exe is an executable file, as shown in Pic 1.

名称	修改日期	大小	类型	总大小	可用空间
ipConfig.txt	2018/12/20 14:41	1 KB	文本文档		
UHFAPI.dll	2018/11/8 15:15	204 KB	应用程序扩展		
UHFAPP.exe	2018/11/14 17:59	197 KB	应用程序		
WindowsFormsControlLibrary1.dll	2018/7/20 10:11	9 KB	应用程序扩展		

Pic.1

3. Operation

SR160 is a scanning gun device with RFID function. Its working principle is to directly output the scanned data to the cursor position. As long as the application is opened and the cursor position is located, the identified data can be output through the RFID scanning gun.

4. Functions

The SR160 scanning gun has three working modes:

- 1).RFID mode only enables RFID function, and the RFID reading data shall prevail. Switch the function to RFID mode through the yellow switch button on the back of the device. RFID mode light is on and the BARCODE mode light is off. The reading is successful, and the corresponding RFID top indicator is on.



- 2).Barcode mode

Only the barcode function is enabled, subject to the barcode reading data. Switch function to BARCODE mode through the yellow switch button on the back of the device, and the BARCODE mode light will be on and the RFID mode light will be off. The reading is successful, and the corresponding BARCODE top indicator is on.



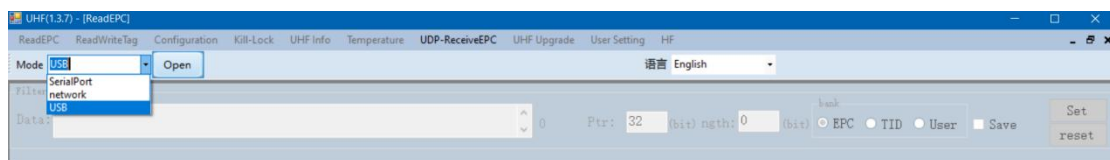
3).Barcode RFID hybrid mode

Scan UHF tag and barcode at same time, take the data obtained first as the final data.

Switch the function to dual mode through the yellow switch button on the back of the device. BARCODE mode light On, RFID mode light.

5. Parameter Setup

Connect the SR160 scanner with computer through its cable, open the windows connection program UHFAPP, select USB as the communication mode, and click the "Open" button to connect.



Set the buzzer, turn on the buzzer, and the device will emit a prompt tone when reading tags. Turn off the buzzer, and the device will not emit a prompt tone when reading the tag.



User Settings:

The special customization function is configured in user setting. The customization function is not described here.

6. Others

Click the "UHF information" button in the main menu to read the device hardware version and firmware version number, and click the "Temperature" button in the main menu to read the module temperature.

FCC statements:

This device complies with part 15 of the FCC rules. 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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The SAR limit of USA (FCC) is 4.0 W/kg averaged over 10 gram of tissue for handheld. Device types SR160 (FCC ID: 2AC6ASR160) has also been tested against this SAR limit with the the handheld kept 0mm.

CE/UKCA Warning:

Declaration of Conformity Hereby, Shenzhen Chainway Information Technology Co., Ltd declares that the radio equipment type SR160 is in compliance with directive 2014/53/EU.



The full text of the EU declaration of conformity is available at the following internet address <https://www.chainway.cn/>

Specific Absorption Rate (SAR)

- Your device is tested to comply with applicable requirements and regulations of the European Union/UK of human exposure to radio wave.
- Specific Absorption Rate (SAR) is used to measure radio waves absorbed by a body. The device complies with RF specifications when the device used at a distance of 0 mm from your body. The SAR limit is 2.0 W/kg averaged over 10 gram of tissue in the European Union/UK.
- This product was tested and recorded the maximum SAR value was 1.299 W/kg for the limbs.

Bluetooth(2402-2480 MHz) Max EIRP is 1.21dBm.

RFID (865.7-867.5MHz) Max Pe.r.p is 22.58dBm

It is recommended to recharge the battery at a ambient temperature between -20°C and 40°C . To optimize battery life, only use the battery and charger supplied. Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions. Do not destroy the batteries and power cables.

Do not attempt to disassemble the battery by yourself, nor charge the battery in too high or too low extreme temperatures, and low air pressure at high altitude, to avoid that may result in an explosion or the leakage of flammable liquid or gas.