

# RT220 Quick User Guide

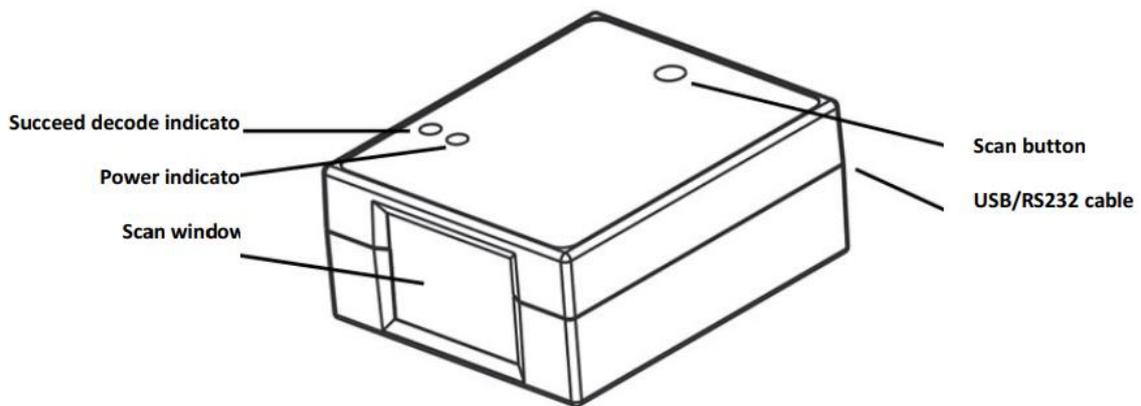
**Thank you for choosing RTscan, this guide will help you to use RT220 easily.**

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## 1. USB-HID KBW

If your RT220 come with USB interface, the default setting is USB-HID KBW, it's plug and play, connect the scanner with your computer and run Notepad / MS Word, after reading the barcode, the decoded data will be shown there.

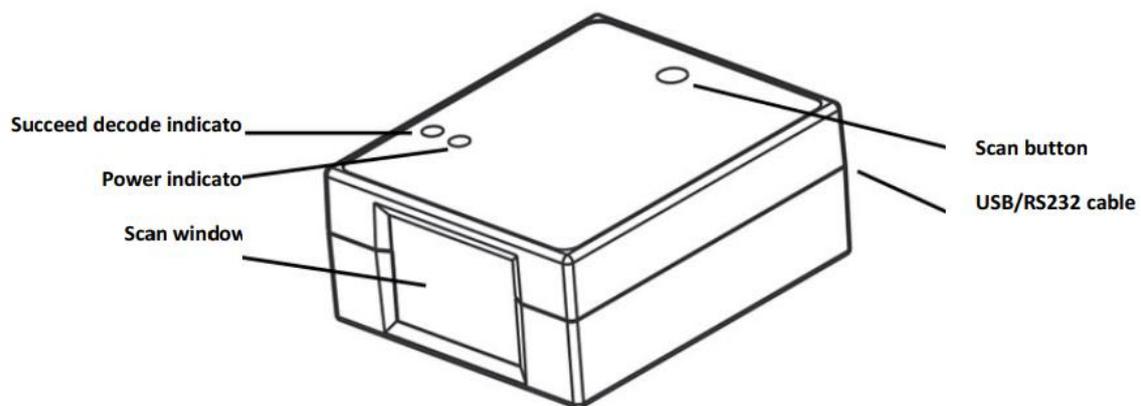


\*Kindly note the reader is default set as Sense Mode which can read barcode automatically, so pressing button is not necessary.

- **Button Mode** (default mode): Press the scan button to run the decoding.
- **Sense Mode**: the RT220 will detect and decode the bar code automatically.

## 2. USB-COM (USB COM Port Emulation).

If your RT220 come with USB-COM (USB COM Port Emulation), you will need to have a software that can work with a serial port to test the scanner, please download and refer to the **RT220-Guide for driver install** on Part IV.



\*Kindly note the reader is default set as Sense Mode which can read barcode automatically, so pressing button is not necessary.

- **Button Mode** (default mode): Press the scan button to run the decoding.
- **Sense Mode**: the RT220 will detect and decode the bar code automatically.

### 3. RS232 Serial Port

If your RT220 come with RS232 interface, you will need to have a software that can work with a serial port to test the scanner, please download and refer to the **RT220-Guide for driver install** on Part IV



- **Button Mode** (default mode): Press the scan button to run the decoding.
- **Sense Mode**: the RT220 will detect and decode the bar code automatically.

## 4. Instruction Documents Download

You can kindly download the instruction documents of reader at the following link:

**RT220:**<http://www.rtscan.net/wp-content/uploads/2017/04/RT220-Full-API-Manual-201704.zip>

- RT220-Guide for driver install
- RT220-Configuration-tool-user-guide
- CodeBarConfigTool5.6.1
- Windows Driver For USB Virtual COM

## 5. Setting of RT220

Run the **Configuration Tool.exe** (connect the tool with RT220 is **not** necessary) and choose the setting option from the left side column and then double click it to generate a setting code on the right area, scan the setting code from your PC screen, then the setting will be active immediately.

**Tip:** Multi-function batch setting

You can merge lots of setting codes into one PDF417 code by the “Merge setting code”function in the configuration tool, scan this code is equal to scan all of those setting codes.

Video Demo of Configuration Tool:

<https://www.youtube.com/watch?v=IGNXqRirooM>

## 6. Programming by Command

You can program the barcode reader by commands, the host (your system) send command to RT220 to control its work, the command is sent in hex, the frequently used commands listed as below:

Function	Command code	Return value
Begin decode	0x32 0x75 0x01	03 <length(2 byte)><decoded data>
Stop decode	0x32 0x75 0x02	00
Recover factory default	0x32 0x76 0x01	00
Button mode	0x21 0x61 0x41 0x00	0x22 0x61 0x41 0x00 0x01
Sensing mode	0x21 0x61 0x41 0x03	0x22 0x61 0x41 0x03 0x01

Example: you can build a “scan” button of your software interface with the command 0x32 0x75 0x01, then when user clicks the “scan” button, the RT220 begin to read.

For more detailed user guide, please read the **RT220 Configuration tool user guide**, which also includes the list of all factory default setting in the **section G. Factory default Setting**.

If you need any other technical support from RTscan, please feel free to contact us: [justin@rtscan.net](mailto:justin@rtscan.net), thank you!