

# UR220U/HK 13.56MHz RFID Reader

USB Virtual COM PORT/HID Keyboard Mode OUTPUT

## INTRODUCTION

The UR220U/HK brings the concept of "Your Reader" which is a stylish, reliable proximity RFID reader with piano finish housing which really shows seamless integration to an intelligent building. For those high end projects, UR220U/HK fulfils its requirement in both excellent performance and flexible appearance, such as changeable housing with customized logo, LED colors or even the buzzer sound which are all configurable to meet wide range of applications in Access control area or Home automation area. With waterproof design, it also serves as a great outdoor reader in all environment.



UR220U/HK

UR225U/HK

## FEATURES

- Mifare Card 13.56MHz Read only.
- Interface outputs according to USB Virtual COM PORT or USB HID Keyboard characteristics.
- Weather resistant.
- Available installed on metal surface.
- Reading distance: up to 1~3 cm.
- New stylish housing to match modern construction for customer design.

## SPECIFICATIONS

### OPERATING

Transmit Frequency	13.56MHz standard
Transponder	ISO14443A Card Read Only
Reading distance	1~3 cm with Mifare 1k/4k typ
Interface	USB Virtual COM PORT to UR220U/UR225U USB HID Keyboard to UR220HK/UR225HK

### ELECTRICAL

Power Input	5 VDC for USB
Current Requirements	120 mA for UR220U/UR225U 75 mA for UR220HK/UR225HK

### MECHANICAL

Dimensions	Length : 100 mm / Width : 32 mm / Height : 16.5 mm for UR220U Length : 87 mm / Width : 32 mm / Height : 16.5 mm for UR225U
Weight	63 gm for UR220U-00/UR225U-00(With Cable) 80 gm for UR220U-01/UR225U-01(With Cable)
Cable Length	120 cm +/- 2cm for UR220U-00/UR225U-00 150 cm +/- 2cm for UR220U-01/UR225U-01

### ENVIRONMENTAL

Temperature	Operating : 0 °C to 55 °C Storage : -10 °C to 65 °C
Humidity	Operating : 10 % to 90 % noncondensing Storage : Up to 90% noncondensing

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## ■ TERMINAL / INDICATOR DESCRIPTIONS

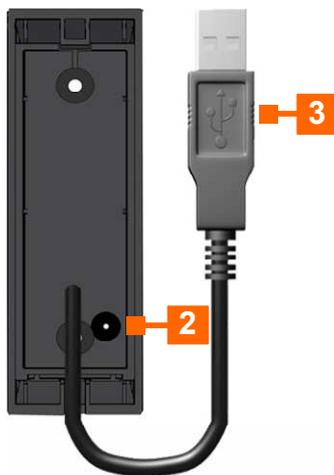


### 1 LED Indicator

Green	Red	Description
On	Off	Standby
Blink	Off	Read OK
Off	On	ISP Mode
Other		Software Control

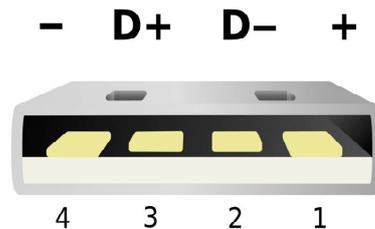
### 2 Sound Indicator

Buzzer	Description
Bi-	Read OK
Other	Software Control



### 3 4 Pin Terminal

Pin	Signal	In/Out	Description
1	VCC	P	Power DC+5 Volts
2	D-	I/O	Power Ground
3	D+	I/O	Digital output 1 (open drain)
4	GND	P	Power Ground



## ■ DATA STRUCTURE

HOST to UR220/225U /UR220/225HK (USB Virtual COM PORT/ USB HID)

STX "n" CR

Baud Rate : 19200,N,8,1 (STX : 0x02 CR : 0x0D)

"n"	Description
V	Device Firmware Version
D	Device Name
J5	Treble Single Beep
J6	Treble Triple Beep
J7	Mediant Single Beep
J8	Mediant Triple Beep

[Ex.] Get Device Name :

Host

STX "D" CR

Device

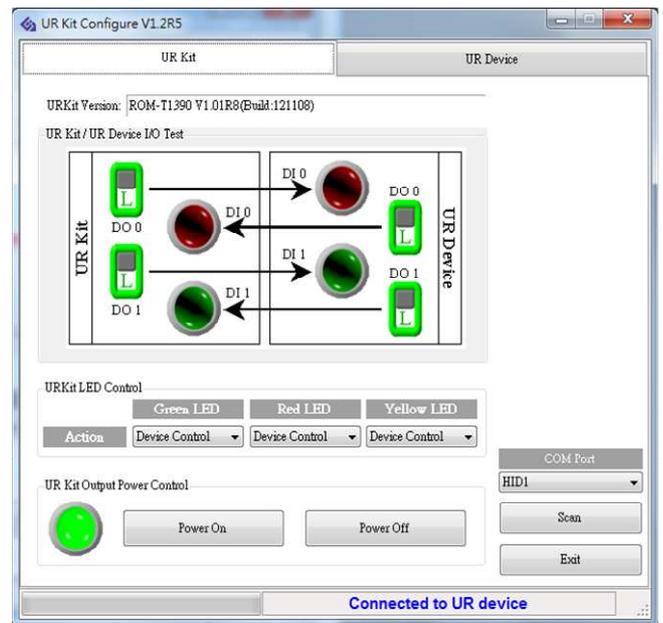
STX "A" " , " "UR220" " , " "0" CR

## Utility Tool

URkit is the Utility tool for UR series reader. With its software(URkit Configure), URkit may perform complete functionalities of UR series reader.



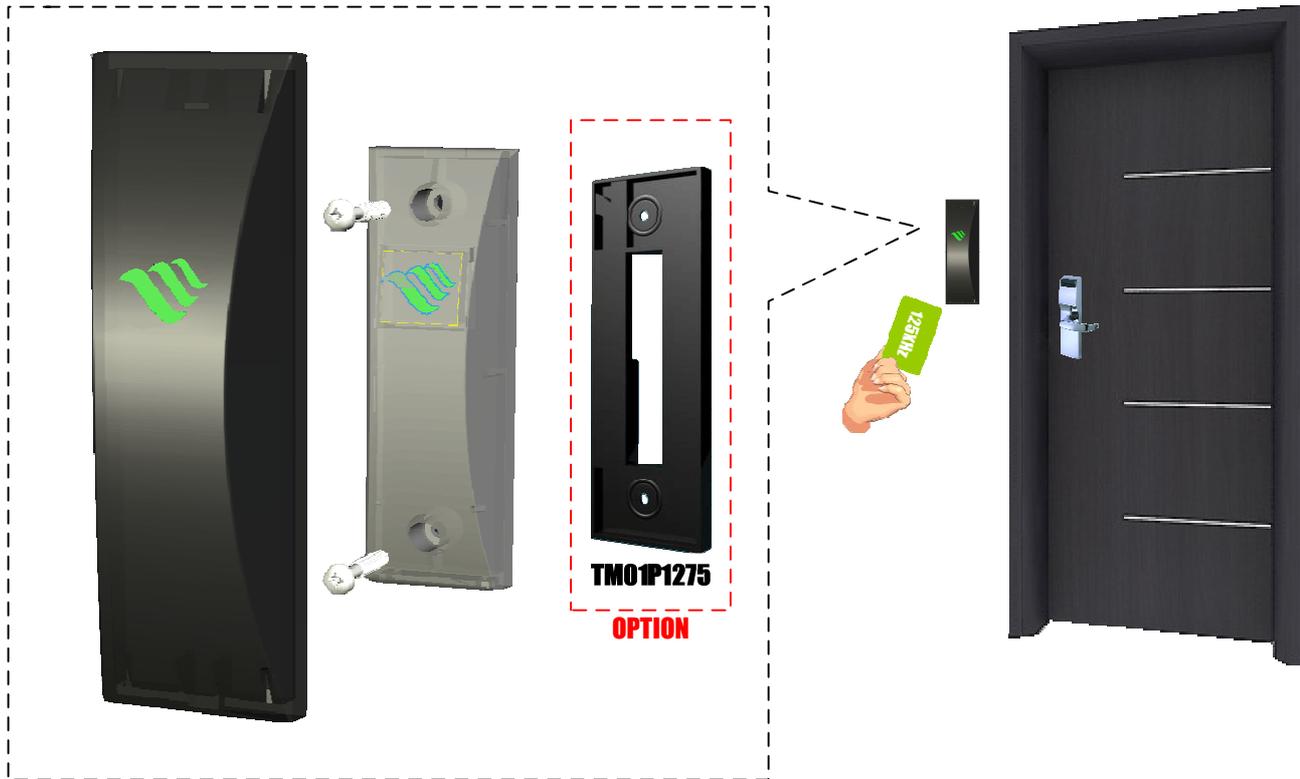
URKIT is an optional device for UR220U's configuration, please contact sales for inquiry



Please have two USB port in your computer. Connect URkit to one USB port as a key to access the software. Connect UR reader to another USB port and run software for configuration. Please don't remove URkit before you finish the configuration with UR reader.

## Installation

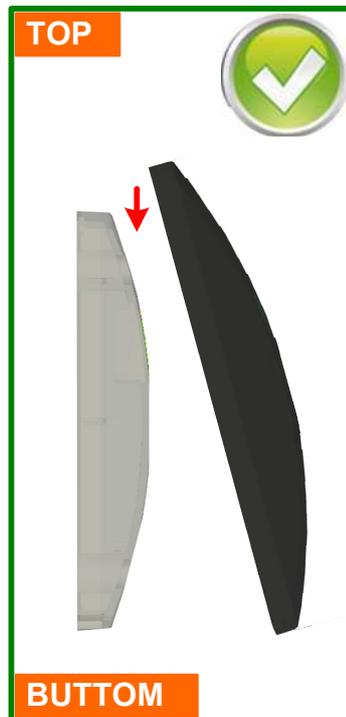
For the installation, the inner reader requires two screws to be fixed on the proper location next to the entrance. The outer black housing will apply on top of the reader.



Please pay special attention to the below instruction which demonstrates the proper direction that outer housing needs to be applied to inner reader.



Above picture shows the inside of the outer housing.



Above picture shows the correct direction (TOP) that outer housing needs to be applied.





**CAUTION:**

The crossed out wheeled bin label that can be found on your product indicates that this product should not be disposed of via the normal household waste stream.

To prevent possible harm to the environment or human health please separate this product from other waste streams to ensure that it can be recycled in an environmentally sound manner.

For more details on available collection facilities please contact your local government office or the retailer where you purchased this product.

This information only applies to customers in the European Union.

For other countries, please contact your local government to investigate the possibility of recycling your product.