UROVO
mobility redefined

R7 Wireless Ring Scanner User Guide

Appearance

Front view

Scan Window

Side view

Customize Button   Scan Button

USB Interface   Power Button

Tips
Power on: Press 「power button」
Power off: Press and hold the 「power button」 at least 3 seconds
Scan trigger: Press the 「scan button」 to trigger scanning

Top Indicator

Tail Indicator

USB Dongle

Back view

DC PIN

R70

R71

Buzzer/LED Lights Prompt

State   Description

The top indicator:

Blue light blinking slowly	Awaiting Bluetooth connection
Solid blue	Bluetooth paired successfully
Red light blink 3 times (w/buzzer ringing 5 times)	Low battery
Solid red	Charging
Red light goes out	Charging completed

The tail indicator

Buzzer ringing continuously	2.4G mode awaiting connection
Buzzer stopped ringing	2.4G link successful
Green light (w/buzzer ringing)	Scanning success
Red light (w/buzzer ringing 4 times)	Scanning abnormal/paired failure
All light flashing (w/buzzer ringing 3 times)	Power on

Connection

Method 1: 2.4GHz Wireless RF Connection

Step 1. Ensure R7 is powered on, and scan any bar codes of the 2.4GHz Connection channel (Page8-9). Do not use the same channel when your working area was adjacent.
Step 2. When the continuous beeping starts, plug-in the USB dongle to your computer.
Step 3. Then the continuous beeping stops - indicating successful connection.

Method 2: Bluetooth Connection

HID Connection Method

Step 1. On your devices, navigate to Bluetooth settings. For Android devices, tap the search button to begin searching for Bluetooth devices.
Step 2. Ensure R7 is powered on then scan the HID mode bar code in this context, and restart R7.
Step 3. On your devices, R7 will appear on the list of available devices. If the brackets' S/N matches the S/N on the back of the R7, you can tap it for connecting.

Note. To change connection mode, scan HID Mode barcode on page7 first and reboot.

Step 4. Once the R7 connects successfully, the top indicated blue light will be powered on.

SPP Connection Method

Step 1. Install SPP demo form the App Store or develop with SPP. Open the Bluetooth settings on your device. For Android devices, tap the search button to begin searching for Bluetooth devices.
Step 2. Ensure R7 is powered on then scan the SPP mode bar code in this context, and restart the R7.
Step 3. On your devices the R7 will appear underneath the list of available devices. Check that the S/N in brackets matches the S/N on the back of the R7, then tap to connect.
Step 4. Once the R7 connects, the top indicator blue light will be always on.

Note. To change the connection mode, scan SPP Mode barcode on page7 first and reboot.

Method 3: Voluntary Pair

Step 1. Check the Bluetooth Mac address of your phone.
Step 2. Generate an barcode with the 'Barcode Studio' or other software, print it out or show it in your phone (the barcode value: '$BT#MAC' + 'MAC address').
For example, the mac is '3C:2D:4E:13:4C', the barcode value would be $BT#MAC3C2D4E134C.
Step 3. Scan this barcode by ring scanner to pair in voluntary.
Step 4. 'Agree' in your phone.

Tips:

U2 built-in application can dispaly the barcode about Bluetooth MAC.
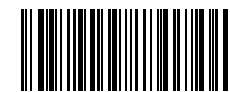
Common Settings

Normal Setting

Obtain the information
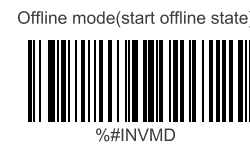(version/battery percentage)
of the ring scanner:
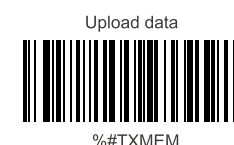
Initialization:

$SW#VER

$SYS#INIT

Unpaired	Add the suffix "Enter"
$BT#CLEAR	$ENTER#ON
Cancel the suffix "Enter"	Normal (stop offline state)
$ENTER#NO	%#NORMD
Offline mode(start offline state)	Upload amount
%#INVMD	%#+TCNT
Upload data	Clear the storage
%#TXMEM	%#*NEW*
Caps Lock(2.4G Receiver)	
$KEY#CAPS	

2.4GHz Connection Channel

Channel 1	Channel 2
$RF#CH01	$RF#CH02
Channel 3	Channel 4
$RF#CH03	$RF#CH04

Channel 5	Channel 6
$RF#CH05	$RF#CH06
Channel 7	Channel 8
$RF#CH07	$RF#CH08
Channel 9	Channel 10
$RF#CH09	$RF#CH10
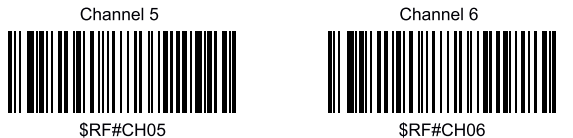
Bluetooth Transmission Mode

Bluetooth SPP Mode	*Bluetooth HID Mode
$BT#SPP	$BT#HID

TP Mode

Scan the following barcode to co-operate with data packet fomat.

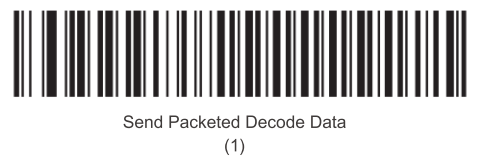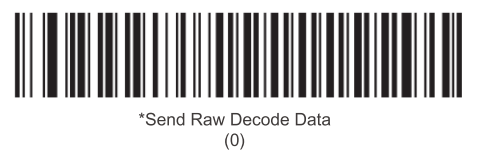Foreign language character normal output.

The steps:
1. Please make sure the ring scanner is in SPP mode.
2. Scan the 'TP Mode' above.
3. Scan the 'Send Packeted Decode Data' on page8.
4. Choose the scanner type in U2 setting: 955-2|se2707 and keyboard output.
5. Set the correct encoding format in U2 which is corresponding to the barcode.
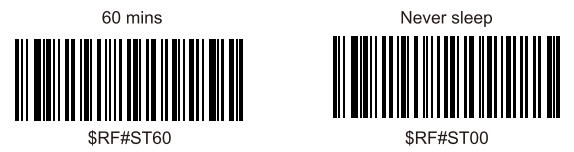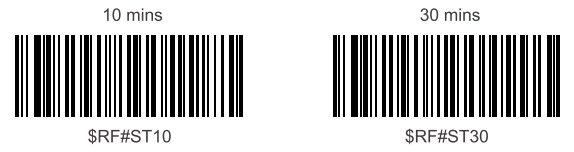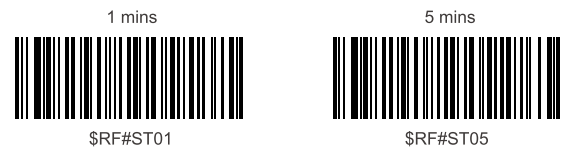
Decode Data Packet Format

Scan one of the following barcodes to select whether to transmit decoded data in raw format(unpacketed), or with the packet format defined by the serial protocol.

Selecting the raw format disables ACK/NAK handshaking for decode data.

*Send Raw Decode Data
(0)

Send Packeted Decode Data
(1)

Note. Will work in SPP mode.

Sleep Extension Time

1 mins	5 mins
$RF#ST01	$RF#ST05
10 mins	30 mins
$RF#ST10	$RF#ST30
60 mins	Never sleep
$RF#ST60	$RF#ST00

Keyboard Language

Scan one of the following bar codes to set different keyboard language.

English(US)	French
$LAN#EN	$LAN#FR
Germen	Spain
$LAN#GE	$LAN#ES
Portuguese	Turkish
$LAN#PT	$LAN#TK
Italian	
$LAN#IT	

Customized Key Setting

The ring scanner offer two customize buttons, you can customize the key value as you need.

Power key(KEY0)default: none(long-press).
Customize key(KEY1)default: none.
Note. It will work in HID Mode.

Tips:
Key values: Backspace: '1008' , Space: '1032' , Tab: '1009' ,Enter: '1013' .
If you need more setting, Please contact the supplier or manufacturer.

Example: Customize the key value as "Backspace"
The steps:
1. Scan the '$SCAN#1' .
2. Find the "Numeric Bar Code" in page11.

3. Scan the numeric bar code '1', '0', '0', '8' one by one.
4. Scan the bar code '$KEY0#1' to enable the customize key.

Key Value Setting

Set the value of 'power button'	Set the value of 'customize button'
$SCAN#0	$SCAN#1

Enable/Disable the Customer Button Setting

Enable the key value of the power button	disable the key value of the power button
$KEY0#1	$KEY0#0
Enable the key value of the custom button	disable the key value of the custom button
$KEY1#1	$KEY1#0

Resetting the Scan Engine

Set Factory Defaults

Numeric Bar Code

0	1
2	3
4	5
6	7
8	9
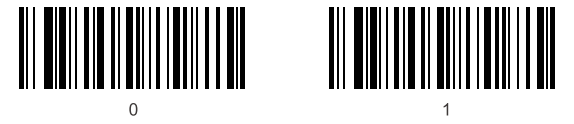
Quick Fixed

Error	Solution
Captured data wrong	Scan the resetting barcode
Bluetooth can not be searched	Scan unpaired barcode
Data can not output / empty	Check that the correct connection method is used, distinguish HID| SPP|Off line mode
HID|SPP can not exchange	Scan 'SPP mode' again
No Aimer or illumination	Contact the local service center

Children

1) Do not allow children or pets to bite or suck the device.
2) Do not poke eyes, ears, or other body parts with the device or insert the device into the mouth.
3) Do not use it close to the eyes of people or animals when the scanner be triggered.

Transport Precautions

Do not transport the devices at ambient temperature higher than 65℃ (149℉).
Pack device with appropriate packing materials.

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Return & Recycle

This marking on the product accessories or literature indicates that the product and its electronic accessories (such as charger) should not be disposed with other household waste.

Help & Support

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