Wasp
BARCODE TECHNOLOGIES

DR2 Rugged Handheld Computer

User's Manual

Version 1.0

Table of contents

1. Package Contents
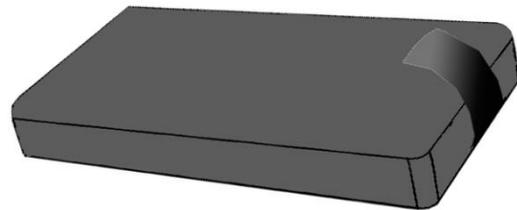
DR2

USB cable
(Standard USB to Micro USB)
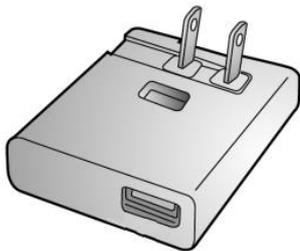
Charger

Battery

Power Plug Adapter

Hand Strap

2. Getting started

The Wasp DR2 is an Android platform device. This Android platform device has great flexibility that allows you to make customized configurations and enhancements by installing and removing Apps.

With the Android operating system, your device has limitless possibilities to update with the latest features and improvements.

2.1 Device overview
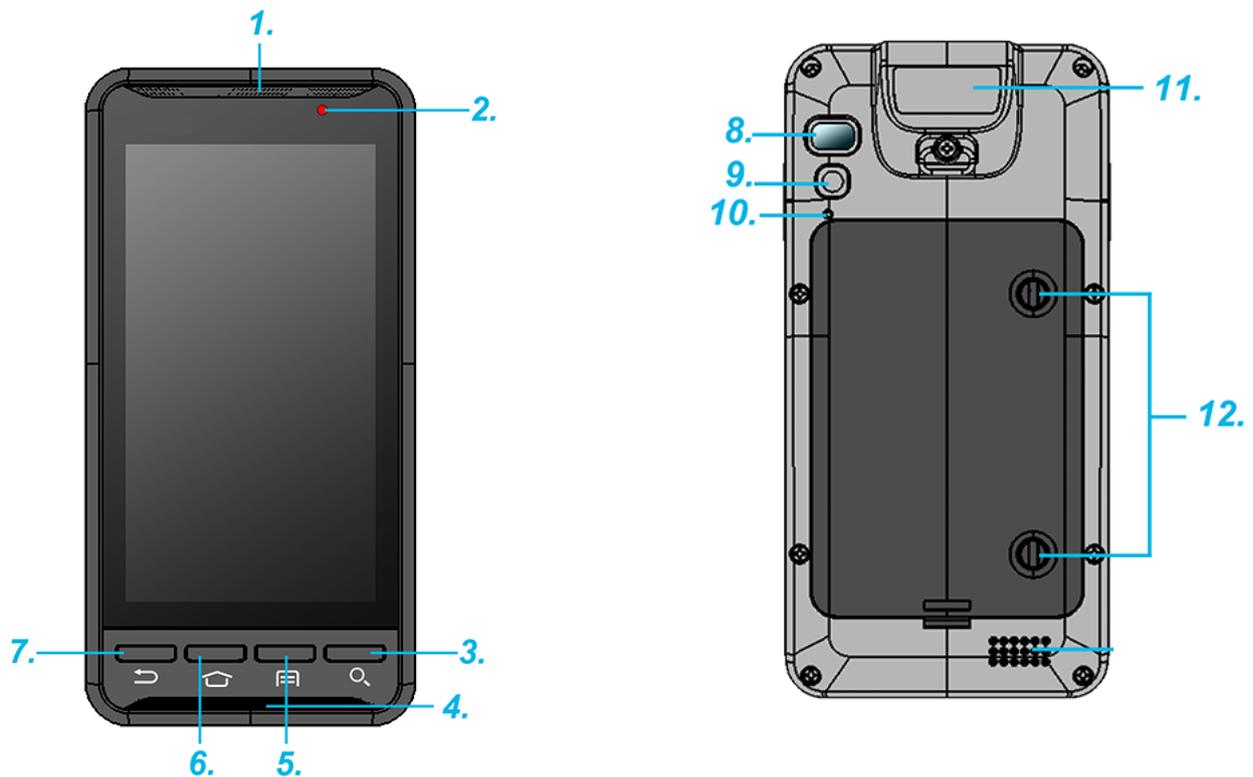
1. Receiver	7. Back Button
2. LED Indicator	8. Flash LED
3. Search Button	9. 5M Camera with AF
4. Microphone	10. Reset Button
5. Menu Button	11. Barcode Scan Engine
6. Home Screen Button	12. Mounting Screw for Battery Cover
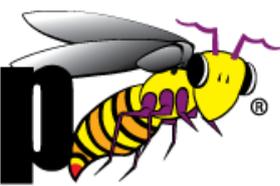
13. Barcode Scan Engine	15. Volume Down Button
14. Scan Button (yellow)	16. Volume Up Button
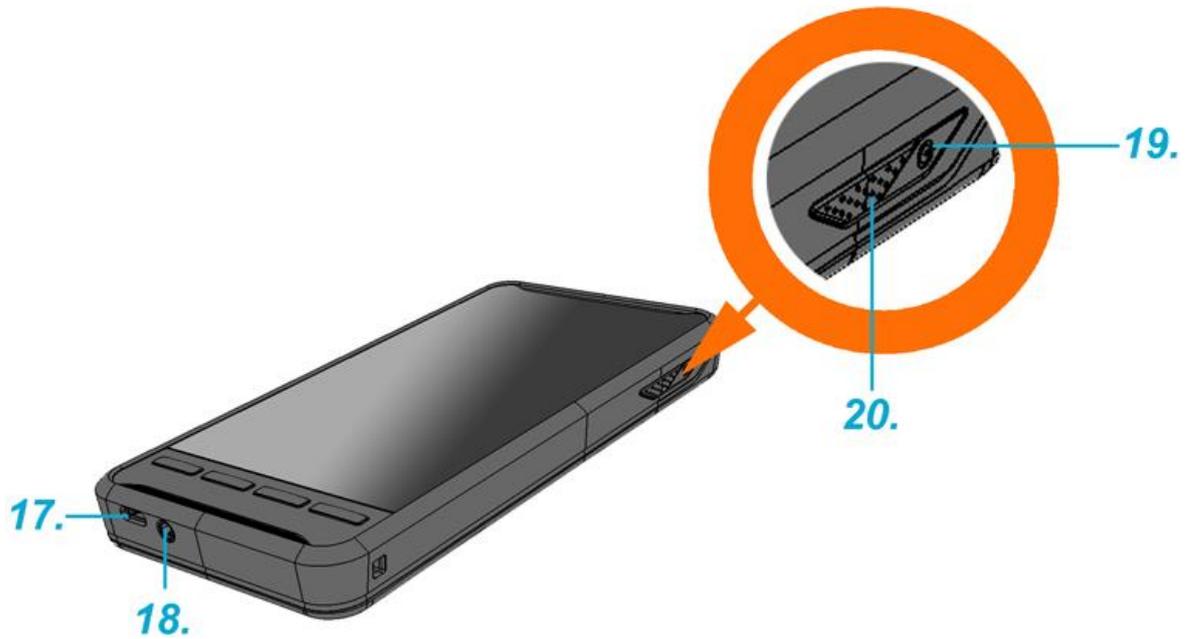
17. Micro USB Port	19. Power Button
18. Phone Jack	20. Scan Button (yellow)

2.2 Assembly
Accessing battery and Micro SD card

1. Use a screwdriver or a coin to loosen the two screws on the battery cover by turning counter-clockwise.

2. Remove the back cover. Remove the battery, pulling up on the plastic tab.

3. Now you can access the micro SD card slot.
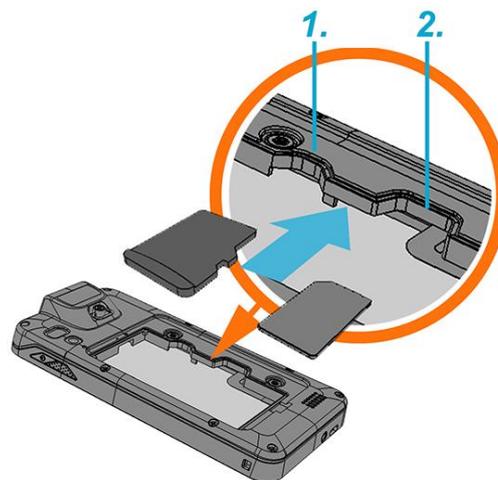
1. Micro SD card slot
2. not implemented

2.3 Charging the battery

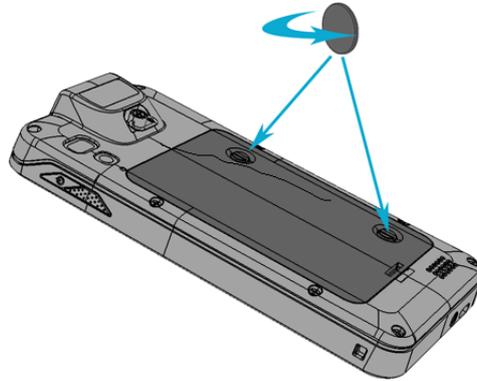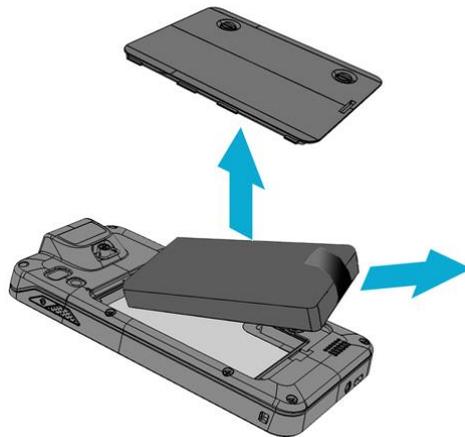Simply connect the DR2 to the charger, and it will be charged automatically.

1. Connect the standard USB connector to the charger.
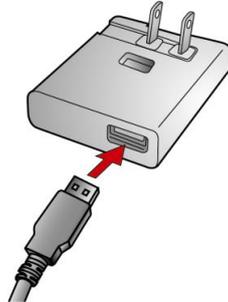
2. Connect the micro USB connector to the micro USB port at the bottom of the device.
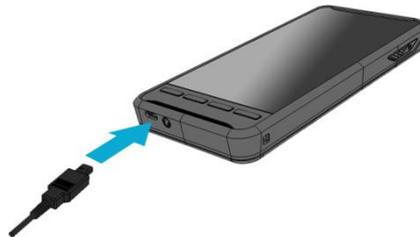
3. Plug the AC charger into a wall outlet. If needed, attach a plug converter onto the AC charger.
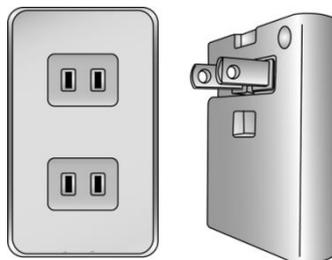
2.4 Data Communicating with PC Device

1. Connect the standard USB connector to the USB port of the PC device.

2. Connect the micro USB connector to the micro USB port at the bottom of the device.
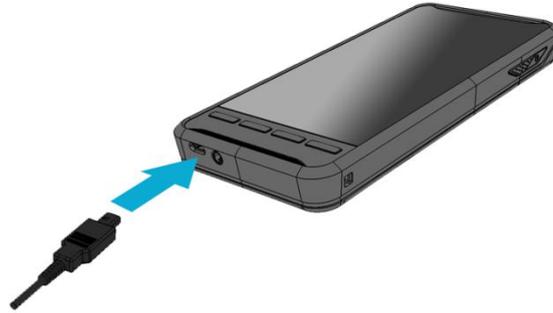
2.5 LED status
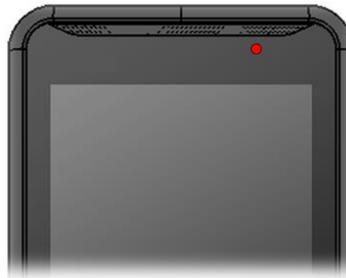
Green	The battery is fully charged.
Red	The battery is charging. The battery level is between low and full.
Blue	Message is received.

2.6 To check the battery level and to access the battery usage menu

1. From your Home screen, tap .

2 Find and tap Settings.
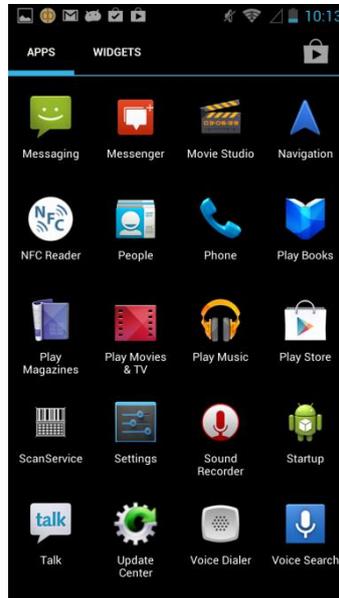
3 Find and tap Battery.
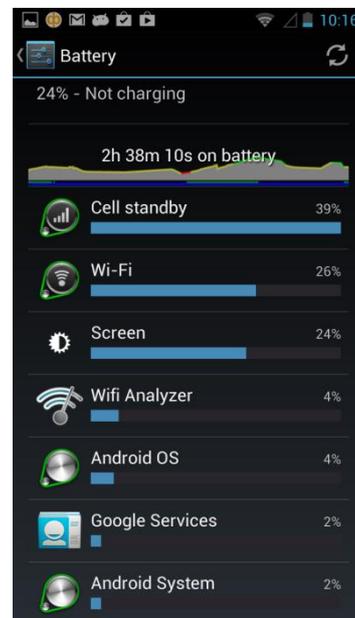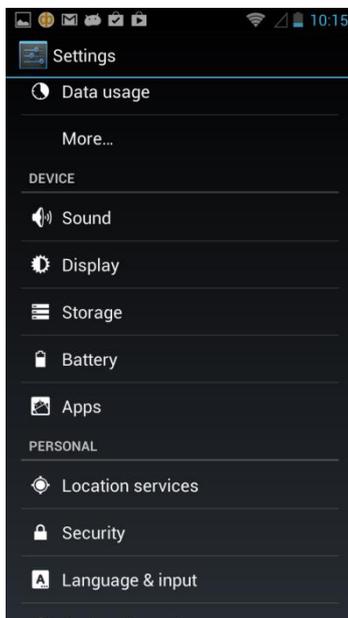
3. Basic Operation

3.1 Accessing and using applications

To open the Application screen

From your Home screen, tap ⊞.

To browse the Application screen

From the Application screen, flick right or left.

To create a shortcut to an application on the Home screen

1. From your Home screen, tap ⊞.
2. Touch and hold an application icon and then the Home screen opens.
3. Drag the icon to the desired page on the Home screen by flicking left or right, then release your finger.

To remove a shortcut of an application on the Home screen

1. From your Home screen, touch and hold the icon of the desired application you want to remove.
2. "**X Remove**" shows on the top of the home screen.
3. Drag the icon to be removed to the "**X Remove**".

3.2 Barcode Scanning (For Imager Version only)

1. Tap the **ScanService** .

2. Aim the Barcode Scan Engine at the barcode and press one of two scan buttons.

4. Specifications

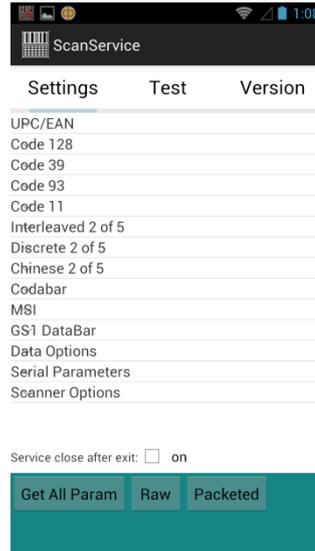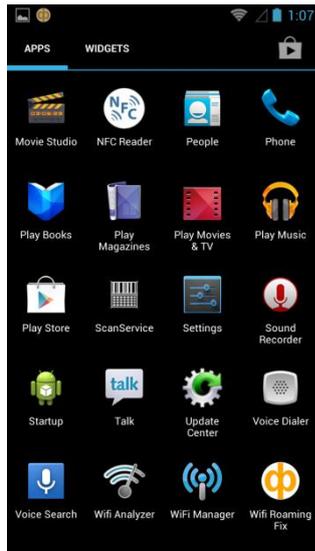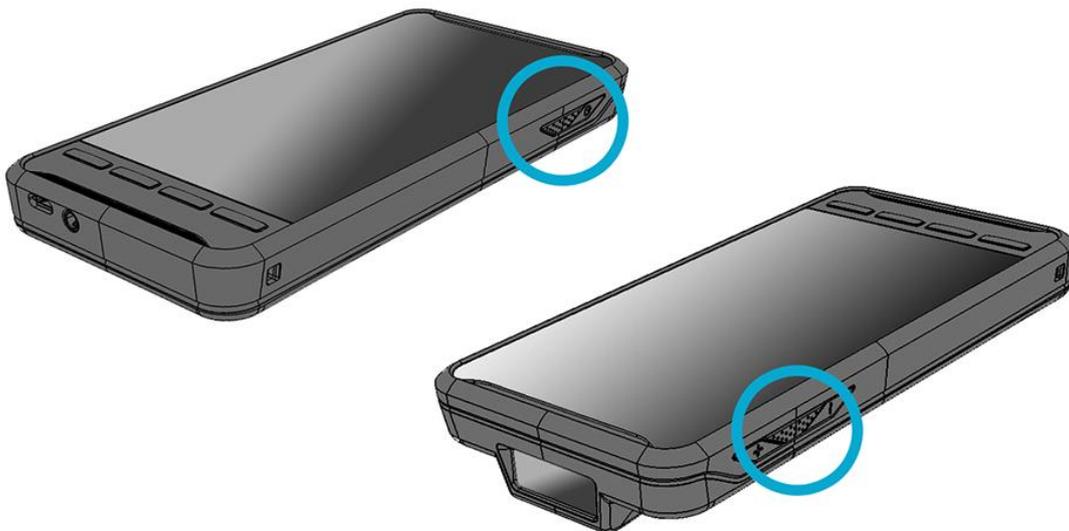| System Features	
CPU	TI OMAP 4470 1.5Ghz Dual Core Processor
Memory	1GB Mobile DDR RAM 8GB eMMC Flash
OS	Android 4.1.1 Jelly Bean
Languages support	English, Simp. Chinese, Traditional Chinese, Japanese, Spanish, German, French

Display
Gorilla Glass II with 5-point capacitive touch panel
4.7" Color 450nits High Brightness TFT 720x1280 dots IPS LCD

Keypad	
4 x Function key	1 x Power key
2 x Scan Key	2 x Volume key

Indicator
1 LED indicate charge/Message
Vibrator

Symbologies	
1D CCD Barcode scanner	UPC-A/E, EAN-8/13, Codabar, Code 39, Code 39 full ASCI, Code 93,Code 32, Interleaved & Std. 2 of 5, EAN 128, Code 11, Delta, MSI/Plessey,Code 128, Toshiba, RSS expended, RSS Limited, RSS14.

Audio
1W speaker 85 dB at 10cm , 3.5mm Audio Jack, Receiver, Microphone

Regulatory Approvals
CE, NCC, FCC, BSMI, VCCI, CCC, RoHS compliance

Communication	
Camera and Flash Light	5MP CMOS Sensor Camera,dual auto focus,LED flashlight
External storage	Support MicroSD memory card up to 32GB
USB	USB 2.0 OTG
WLAN	IEEE 802.11 b/g/n
Bluetooth	Bluetooth 4.0
WWAN	GSM/GPRS/EDGE 850/900/1800/1900 MHzUMTS 850/900/1700/1900/2100 MHz WCDMA modem, HSPA+, DL: 21Mbps/ UL: 5.76Mbps

Other Sensors	GPS
	eCompass
	Light & Proximity sensor
	G-sensor
GPS	12 x 12 mm patch antenna

Power Source

Main Battery	11.9Wh 3.7V @3220mAh Li-Polymer battery pack
Backup Battery capacity	1 hour

Enclosure

Weight	285g (with battery)
Dimension	160mm x17.4mm x 80mm (without engine)

Environmental

Operating temperature	14°F to 122°F (-10°C to 50°C)
Storage temperature	-4°F to 140°F (-20°C to 60°C)
Charging Temperature	32°F to 104°F (0°C to 40°C)
Relative Humidity	5% ~ 95% (non-condensing)
Drop test to Concrete	1.2 meter
Environmental Sealing	IP65
Vibration and Shock test	MIL-STD-810F, 514.4 process II

Software

Android 4.1.1 API level 16

Accessories

Single Slot USB Client/on the go Cradle with Single Slot Battery Charger

Handstrap

3220mAH standard Battery

USB Communication Cable

Power adaptor with universal plugs

Appendix/Support

Wasp's professional support team is available to quickly answer questions or assist with technical issues. Should an equipment problem occur, please contact Wasp Technical Support. For complete contact information, please visit the websites listed below:

Wasp Barcode Technologies - America

Dallas, Texas

United States of America

www.waspbarcode.com

Wasp Barcode Technologies - Europe

Redbourne, St. Albans - England

United Kingdom

http://www.waspbarcode.co.uk/