P9IV Specification

V1.1

1 Product

Figure 1 - PIV Design

2 Product Features

2.1 Overview of Technology Features

Item	Feature
Bluetooth	BT2.1+EDR/3.0/4.1LE/4.2/5.0 BLE
WiFi	802.11 a/b/g/n/ac
Network	Full Netcom 4G, supporting China Mobile, China Unicom, and China Telecom
Sim card slot	Nano SIM
TF card slot	Support MicroSD expansion, up to 512G
Memory	3GB
Storage	32GB
Indicator	2 pcs
Key	28 pcs
Electronic Blisters	Support
Electronic Compass	Support
Camera	13-million pixels of rear camera, with flash
GNSS	Three galaxies with single frequency, GPS、GLONASS、BeiDou
	Single point position, no raw data output

2.2 Details

2.2.1 Physical Feature

Size	221.5*82.0*27mm
Weight	450g
Operating temp.	-30 °C to +60 °C
Storage temp.	-40 °C to +80 °C
Protection Class	IP67
Humidity	5%-95 %, anti-condensing
Drop	Withstands 1.2 m drop onto hard surface

2.2.2 System Platform

Operating system	Android11，8 core 2.0G
Memory	3GB LPDDR4X
Storage	32GB
External storage	Up to 512GB

2.2.3 Interfaces

Screen	5.0 inch HD touch screen
Key	28 keys，2 indicators，details see part 2.2.5
Connector	Std Type-c，for charing and data transmission
Communication	B/T：BT2.1+EDR/3.0/4.1/4.2/5.0 BLE WiFi：2.4G/5G, 802.11 ac/a/b/g/n
Network	GSM: 850/900/1800/1900 WCDMA:B1/B2/B4/B5/B8 LTE-TDD:B38/B39/B40/B41 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B28
Other	External storage card slot External SIM card slot

2.2.4 Power supply

Internal Battery	3.85V, 6400mAh, 24.64Wh
Input voltage	DC 5V3A / 9V2A
Adaptor	Type-C PD Adaptor
Operating time	Above 15 hours

2.2.5 Definition of Keys and Indicators

Figure 2 - P9IV Keys' Design

No.	Key	Definition	
1	Keys with numbers	To enter numbers	
	Keys with functions (Related function refers to orange icons when activating）	Orange voice icon on key "1"	Voice input to make Surpad perform some voice commands (under development)
		Orange camera icon on key "2"	Can call up the Camera button
		Orange screenshot icon on key "3"	Take a quick screenshot
		F1-F5	User can define
2	Key for measuremet	When Surpad interface isn't displayed, press to open or switch to Surpad interface.	

		When Surpad interface is on display, press to collect data.	
3	Keys for direction	Move up, down, left, and right on the screen or menu in function state, the up and down keys are for volume control; in the function state, the left and right keys are for screen brightness control.	
4	Recent Key	Call the list of recent apps	
5	Home Key	Back to Home Page	
6	Return Key	Back to last interface	
7	Enter key	Confirm/line feed In Surpad interface, this key is used to collect data in the non-input state	
8	Delete Key	Delete one character before enter other characters.	
9	Tab Key	Make table	
10	Shift Key	When using the physical keyboard as input method, this key can switch between numbers, lowercase and uppercase letters.	
11	Fn Key	Fn mark will prompt in the upper notification bar when pressing this key, meaning the functions marked by orange icons on keys can be used.	
12	Power LED	In standby mode	Solid red: power is <15%.
			Off: power is >15%.
		In charging	Flashing green: in charging
			Solid green: full of charge
13	Power button	Turn on/off device	
14	WiFi/Bluetooth LED	Blue: handheld is connected with receiver B/T. Green: handheld is connected with receiver WIFI. Off: handheld isn't connected through B/T or WIFI.	