

LonHand series product specification

USR-WIFIIO-83

File Version: V1.4





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1. Quick start

First, you should power on USR-WIFIIO-83 with the power adapter supplied by our company. The red LED that presents power will grow after you power on the device. After about 5 seconds the green LED that presents ready will glow. The internal Wi-Fi module starts to work, now you can use it.



1. Install LonHand software.

You can download LonHand software from official website http://www.usr.so/Download/117.html, click on the floppy symbol then download LonHand software. We supply back-end server and software on different platforms such as Windows, IOS, Android and MAC system. Install Lonhand software on your computer or your cellphone or your pad.

→ C [] www.usr.so/Down.	load/117.html						En 1
SR-Alibaba USR-Globalsources	USR-Made-In-China				Q, Searc	zh 🌐 Sitemap	💘 OnlineSho
Jinan USR IOT Tech	nology Limited	Home	News	Products	FAQ	Download	About Us
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User Manual	Running Plat	form					
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	10 MB						
	Detail						
	USR Lonhan	d Software					
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Fig.1 Link address to software



IOS system users can download software from App store for free. Because there are few differences of software interface between IOS system and Android system, we will illustrate how to use it on android system now and later, as an reference to is system users.

2. Set up WLAN. Your mobile phone should link to our device, as shown in Fig.2.

The green LED that presents link will glow after the link between the device and cellphone have been set up.



Fig.2 Set up wireless network

- 3. Open LonHand software. Slide to the fourth page, click on start button.
- 4. Enter Device page. You can find the USR-WIFIIO-83 device. If your phone and USR-WIFIIO-83 have built connection, the Wi-Fi symbol turns blue, otherwise it turns gray. Click on its name enter Source Control page. In this page you are able to control the output, click on the button on right side, the button change blue and the output is enabled. Click it again, the button change glue and the output is disabled. You can try it by yourself. We will introduce this software in detail later.





Fig.3 Device page and Source Control page

- 5. Wireless connection to router setup. Users should configure USR-WIFIIO-83 before control it on line. Procedures are listed as bellow.
- 6. Long press on the icon of USR-WIFIIO-83, click "web config" in popup menu. Enter the default username and password "admin" of Wi-Fi module in popup dialogue, click log in.

		🗊 📶 💼 9:06 AM	\leftarrow \rightarrow	10 10 100	254	X	21	*
	Device	+		10.10.100	.204			
USR- D8-B0	• WP1 -4C-FC-00-63	Offline						
USR- Device Info	•WM1 FC-00-DB	Offline	Auth	entication	Requ	uired		
web config	9 3	6	The serve	er http://10.10.	100.254	1:80 req	uires a	
Active	F3-4A-E7	Offline	usernam User Na	e and password me: admin	d. The s	erver sa	ays: A1	
Delete	FIIO-83	0	Passwo	ord: •••••				
D8-B0-	-4C-F9-03-EC	Online	С	ancel		Log l	n	1
	*	•••						
		More						

Fig.4 Log in device

7. Enter WEB IO page, click on English button at the bottom of the page. Click on Settings button at the bottom of the page.





Fig.5 WEB IO page

8. Click on OK in popup dialog box.

← → 10.10.100.254/g 🤣 💵 📩
Anticide Antic
The page at 10.10.100.254 says:
near the ap!
ОК

Fig.6 Popup dialog box

9. Search the local wireless router your USR-WIFIIO-83 required to join. Take our company wireless router for example. Click scan button.





Fig.7 Scan the wireless network

10. Select wireless router, click OK at the bottom of the page. Click OK on the popup dialog box, enter password of your selecting router. Click Save at the bottom of the page.



Fig.8 Enter password

11. Click Restart button at the bottom of the page.





Fig.9 Restart USR-WIFIIO-83

12. Local control

Set up your cellphone WLAN. The wireless network should be same with USR-WIFIIO-83 joining. Open LonHand software. If you can't find device, click on refresh button on the top left corner.



Fig.10 set up network

Click on the name of USR-WIFIIO-83, enter source control page. Slide up and down you will see 8 outputs and 3 inputs.



	بار) ان	1 💼 10:29 AM	🖌 Saving s	creenshot	
< Back	Source Control	1.1	< Back	Source Control	
OutPut				7	(1)
	1				
		\bigcirc		8	
	2	\bigcirc			O
		C	T		
			Input		
	3	(U)		1	
	4			2	
				2	
	5				
		\odot		3	

Fig.11 source control page

Users can control the outputs and detect input switch states in this page. The buttons on the right side will change color with different operation, as shown in table 1. Eight outputs are open and 3 inputs are off by default.

Table 1 representation of buttons' color							
	Switch on	C	Relay close				
	Switch off	C	Relay open				

Users can try to control the relays. When you click on the button, its color turn blue and the relay is close, click it again, its color turn gray and relay is open. You will hear the sound of switching on and off in quiet environment.

Click the lock button (a), users can lock the state of output. You can't control the output after you lock the output state. This is very useful for preventing mistake operation. Click the lock button again, the output is unlocked, users can control the output again.





Fig.12 Lock the output state

Users can implement timing tasks. Click on timer button (5), pop timer task page, click on the add button on the top right corner, pop timer setting dialog box.

		ا ل ا	10:38 AM
			+
			_
201	4-09-01	10):38
			Custom
			SA
ON	OFF		
Ж		CANC	EL
	2 201 Everyday ON DK	2 2014-09-01 Everyday Workday O TU WE ON OFF	E 2014-09-01 10 Everyday Workday Weekend O TU WE TH FR ON OFF Reverse OK CANC

Fig.13 Timer task

Users should set up start time which must be future time with respect to system time.

There are five conditions that your timing task will emerge: single, everyday, workday, weekend, custom. In control column you can select on, off, reverse operation. Click ok after you have set up.

There is a task in timer task page after you add one. The timing symbol is blue when the task





is going to be done. Users can disable it by click on the timing symbol. Click it again the task is enabled. Click the dustbin symbol users can delete the task.

	Ĩ	🗊 📶 🛑 10:44 AM		() :	📶 🛑 10:46 AM
K Back	Timer Task	+	K Back	Timer Task	+
ON ON	2014-09-01 10:46	Ē	ON ON	2014-09-01 10:46	Ē

Fig.14 Enable and disable the task

Click on the back button \checkmark , back to source control page. Click the block on the left side of one output, enter select a source icon page. In this page you can add symbol of the output control terminal. Long press the output colum, edit the name of this output.



Table 2 Icon for appliances

Lamp		Fridge
	<u>.</u>	



AND	Outlet	~~~~	Water heater
C	Switch		temperature
Č	TV	ිරී	Humidity
×	Air Conditioner	CO	CO alarm apparatus
	Particulate matter		

Click on the menu at the top of the page, pop a pull-down list. Click turn-on, all the outputs are on, click turn-off all the outputs are off. Click touch mode, the outputs operate in touch mode, relay is close when you touch on the button, relay is open when you release. Click normal mode, the output operate in normal mode, relay is close when you click on the button one time, relay is open when you click on the button once again.



Fig.15 Pull-down list

Users can set start state in touch mode. First you set the state of every output, then click the menu, click the start state, setup is complete.

Click on the back button on the top of the page. Long press the icon of USR-WIFIIO-83 in device page. Click device info in the pull-down list, enter device info page. Users can modify name, icon, password (default: admin) of USR-WIFIIO-83 as shown in fig.16.



II.		🛜 📶 📕 11:14 AM		ङ्की 🚛 11	:14 AM
	Device	+	< Back	Device Info	
USR-V D8-B0-4	WP1 4C-FC-00-63	Offline			
USR-V	WM1 4C-FC-00-DB	Offline		USR-WIF 10-83 D8-B0-4C-F9-03-EC	
USR-V	WIFIIO-83	~	Modify Nam	e	>
Device Info	F9-03-EC	Online	Modify Icon		
web config	' 3	0	Gallery		>
Active	F3-4A-E7	• Pasd err	Take Picture		>
Delete			Modify pass	word	>
	-				
ļ.	2	•••			
		More			

Fig.16 Device information

13. Remote control

First you should register an account on our server. If you register unsuccessfully, change an account, try it again. Enter the user page. Click register, register an account. Then login in.

	([1:5	📶 💼 11:24 AM		الا الله الله	11:24 AM
< Back	Login	REGISTER	< Back	Register	
Experience Acco	unt:youren Passcode:	youren	Account (by 4–8 characters)	
youren			Decement	(hu () characters)	
			Password	(by 4-8 characters)	-
Remember F	Password Auto	login	complete info	o will be useful	ОК
				Register	
	LOGIII				

Fig.17 Register an account

Confirm that now your cellphone is in the same local area network with USR-WIFIIO-83. That is to say up to now you have not changed your cellphone WLAN just set up in above section. Now back to device page, click on the icon of the device, click active in the pull-down list.





Fig.18 Active the device

Enter user page click on save activated devices. Now you can control the device remotely based on our server. For example, you can control it in your office while your device is at home. What you need to do is to join your cellphone to network, open the Lonhand software, login in your account, click get activated devices in user page after you open the software, then enter devices page operate it.

₽.		ີ 📶 📕 11:39 AM
	User	
	Save activated devices Get activated devices	
Personal		>
Account		>
Notificat	ion	>
Server D	evices	>
Device		More
 Account Notificat Server D 	ion evices	> > > More



2. Description

2.1 Brief introduction

The USR-WIFIIO-83 device whose relays can be switched on or switched off by remote control, is WIFI branch of LonHand series product, and is designed for industrial application.

LonHand series control terminals are developed for the application in the field of smart home, Internet of Things, industrial controlling and so on. They are suitable for rapid deployment, especially for mobile application because the USR-WIFIIO-83 can be controlled by your cellphone. They can operate with WIFI connection compared to traditional wired connection. These devices are an ideal choice to realize remote control.

These series product are suitable for household application to build smart home for more comfortable life. Also it can be used in industry and agriculture for low cost, high efficiency in intelligent control of the devices. Users are capable to carry out more effective cost control and gain higher profits, because there's no big change and upgrading of your owned equipment under wireless remote control, users can make full use of your original product without more costs for you.

2.2 USR-WIFIIO-83 detail introduction

Table	5 Farameters
Dimension(L×W×H)	104.5*83*28.7mm
	antenna, external terminals and fixed edge on
	both sides are not included
Supply voltage	DC 12V
Number of Ports	8 outputs
	3 inputs
Standby power consumption	Typical: 3W
	Max: 6W
Input port operation mode	Passive switch
Output ports maximum voltage/current	AC 250V/10A
Operating temperature	-25~75 °C
Storage temperature	-40~85 °C
Storage humidity	5%~95%RH
Packing list	antenna*1, USR-WIFIIO-83*1, CD*1, 12v
	power adapter*1

Table? Danamatana

USR-WIFIIO-83's specific parameters are listed in table 3.





2.3 USR-WIFIIO-83 features

The USR-WIFIIO-83 device can be connected to the surrounding network by WIFI or by direct cable connection (via Ethernet cable interface RJ45) after you appropriately set up it. Users can control the USR - WIFIIO - 83 for proper operation with the LonHand software in long distance.

Output ports features:

- Multiple timing tasks(4 timing tasks for every output)
- Lock of output state
- All on
- All off
- Self-define startup state
- Touch mode
- Jog mode

Detail operating approaches are illustrated later.

3. Operation instruction

3.1USR-WIFIIO-83 Hardware wiring instructions and applications

Voltage source output ports: two COMs are common terminal. External voltage source across the two COMs are shunted by 8 relays. 8 relays are turned off by default.

Input ports: Passive switch states acquisition. One terminal of the switch connects to GND terminal of Input ports, another terminal connects to one of 3 input ports. Schematic diagram is shown as bellow.



Fig.19 Schematic diagram

USR-WIFIIO-83 has 8 outputs, the live line or positive terminal of your device connects to one of the 8 outputs whose internal circuit connects to the live line of external voltage source, the null line or ground of your device connects to the null line of external voltage source.



Your device can be powered on or off by switching on or off relays by remote control. The switch states can be detected by USR-WIFIIO-83 when the switches connect to input ports. You can define the real device the switch represents (for example alarm).

There are two types of applications, one is local area network application, as shown in Fig.20; another is internet application as shown in Fig.21. We will focus on these two types of applications in the following sections.









3.2 USR-WIFIIO-83 configuration

This section tells how to join the device to your local router network. There are two ways to connect to the local router, one way is by WIFI network; another approach is by network cable. If you buy more than one USR-WIFIIO-83, please configure one at a time.

If have set some parameters wrong, you can restore factory defaults: find the reset hole underneath the Reload mark (in the red ellipse), push the button more than 3 seconds by tweezers or other tools.



3.3 Cable connection

If you want connect USR-WIFIIO-83 to your local router by network cable, please set up parameters as bellow.

The first steps are similar to wireless connection configuration.

When you enter page like below, Click on work mode on the left side.



Fig.22 work mode page



In the RJ45 mode column, click on the drop-down list *w*, in the popup list select wan mode.

Click done, click save. NOTICE:AP mode should be together with WAN mode, otherwise device may can't work normally.





Click restart. Restart USR-WIFIIO-83. After restart you can join USR-WIFIIO-83 to the local network router by network cable.

4. LonHand Mini Software Instructions

If you control our product remotely using LonHand software, you maybe find the speed a bit slow, because our server is located in china. Now we supply a faster solution: LonHand Mini software. This software bases on port mapping in router.

Your router must offer virtual servers setting or NAT setting that is port forwarding.

 First, you must set our device connect the router with static IP. Take USR-WIFIIO-83 as an example. Set your phone WLAN, choose the router which your device (IO-83) have connected to (this process is the same to use Lonhand software). Open LonHand Mini software. Click the icon of USR-WIFIIO-83, click "Login Device" in pull-down menu. Enter web setting page of Wi-Fi module. Click STA setting.





2. Click Inverted triangle in "obtain an IP address automatically" column, choose disable.

$\leftarrow \rightarrow $	192.168.0.149/g 🔂 🔟	97 🗶
	Show passwords	
utomatically	Disable V	
	0.0.0.0	
	0.0.0.0	
	0.0.0.0	
es (Need to Prev. No	^o USR-WIFIIO-83:0.0.0.0:1 ext	Done
Enable		\bigcirc
Disable		0

3. Input static IP address of IO-83 in IP Address column, such as 192.168.0.100 which is not occupied by other device. Input subnet mask and gateway address of the router. Click save.



Network Manner (SSBD) TP_LINKE_USR_TEST Scarr Excryption Mandel WW2429K • Encryption Algorithm AES • Password • Brown pastwords Chaine an IP address automatically Disable • IP Address • Scarret Address • (Add) domain names (Need to JUSR withTine AB.08.06.01 Carret Address • (Add) domain names (Need to JUSR withTine AB.08.06.01 Size		
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Exception Agentitim AES Paraword Solva paswords S	Encryption Method	WPA2PSK ·
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IP Jobres 192.168.0.160 Subaret Mark 255.255.255.0 Gateway Address 192.168.0.1 (M46) domain names (Need ba USN W/IIIO-88.0.0.0.1) (M46) domain names (Need ba USN W/IIIO-88.0.0.0.1) (Sove Jinan USN IDT Technology Limit of http://sruarcon Support.tecgland on v40-531.555/7287 Web Vect 1.0.11	Obtain an IP address automatically	Disable •
Subort Mark 255.255.255.0 Cateway Adverses 152.368.0.1 DNS Server Adverses 4 Add 0.00,1) newes (Need 10 TSR WIFIIO 83.0.0.0.0.1 Add 0.00,1) newes (Need 10 TSR WIFIIO 83.0.0.0.0.1 Save 1 Jinan USR IOT Technology Linited http://en.uar.on Support: Inciginar on 405.531.4557.277 WHY Ver.1.1.1	IP Address	192.168.0.100
Caterway Address 192.168.0.1 DNS Server Address (LV9) domain names (Need 10 USR within 0.83.0.0.0.0.1 dds0.0.0.1) Jianan USR 1017 Technology Limited http://nu.ss.con Support: tec@ust.cn.406.531.55507297 Web Verc1.0.11	Subnet Mask	255.255.255.0
UND Server Address (ANd) domain _ names (Need to USR w/#IIIO 83.000.01) (Add 0.00.1) (Since Jinan USR IOT Technology Limited http://in.uar.on Support: het@usr.on 406/531.05507297 Web Ver.1.0.11	Gateway Address	192.168.0.1
ULM) downer haves (New 15258 Willio 85.0.0.0.1 Sove Jiman USH 107 Technology Linit et http://www.execon Support. tecglans on: v40-531.65507297 Web Ver 1.0.11	DNS Server Address	
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	Jinan USR IOT Te Support: Teo	chnology Limited http://en.usr.cn @usr.cn 486-531-55507297 Web Ver.1.0.11

4. Click restart.

← → 10.10.100.254/g 🔂 😰 🗶	← → 10.10.100.254/g 🔂 💵 🗶
WEBIO English 中文	WEBIO English 中文
Saved Successfully!	Rebooting Successful!
Configurations will bale effect when reasts After restarts you will prove the na-hopin the configuration interface for other settings, so it in recommended to restart and recompleted all settings Please doit, pleated to be settart now, or dia (back) to contrast a situ four same setting that all configuration.	You can choose to manually close the page or reconnect the WIFI module of network and then login to the configuration interface.
e Retari Back	
Jinan USR IOT Technology Limited http://en.usr.on Support: treiglaur: on +86-531-55907297 Web Ver.1.0.11	Jinan USR IOT Technology Limited http://en.usr.on Support.regliusr.on.+86-531-5507297 Web Ver:1.0.11
Copied to clipboard	Copied to clipboard

- 5. Use this static IP to make port mapping. Now you need use browser to configure the router. Two important things need to be done in this step: port forwarding and Dynamic DNS setting. Because I can't do these things in English in china, you need find ways of port forwarding and DDNS setting by searching in google.com. It is easy to do. For example, USR-WIFIIO-83 default inside port: 8899, outside port: 65500 (it is unique in router service port, 8899 also works but if you have two devices in one router you should differ them by using different outside port).
- 6. When you have finish previous step, now you can control it remotely by network. for example, your device is at home, but you want to control it outdoors. Connect your





phone to network (obviously it is not your home router). Open software. Click add button on the top right corner. Input device MAC in MAC bar, input dynamic domain name in IP/Domain bar, input port number in Port bar, input device password in Device Pwd bar. Click OK.

••••• 中国	移动 🗢 18:01	0 37%	••••• 中国移动 令	18:02	0 36%	●●●●● 中国移动		0 37% .
C	Devices	+	C	Devices	+	C	Devices	+
Add Piease d	remote device		Add reme Please enter ren	ote device			USR-WIFIIO-83 D8-B0-4C-F9-05-3C	•
	MAC			D8b04cf9053c				
	IP/Domain		gao	ofuchao.vicp.cc				
	Port			65500				
	Device Pwd.			••••				
	ОК Са	ncel	ок	Ca	ncel			
		•••			•••	0		•••
D	evices	More	Devices		Nore	Device	s	More

If global icon turn blue, it means you can control device remotely. Operations are same to Lonhand software.

5. Software Instructions

- 1. After configuration, open the software in Windows desk
- 2. The main interface primarily including Device and User page is shown as below. You can choose EN to English language.





3. Click User column, here you can log in your account. If you have no account, register one first.

		Login		
Acc	ount:		×	
Pas	sword:		•	
E F	Remember Auto Login	password	_	
		Login		
			Register	
	Dev	lister		
	Reg	gister		
Account:	lisausr	×	(Required)	1
assword:	•••••	•	(Required)	l
Retype:		•	(Required)	
lickName:	lisa.us	r		
mail:	lisa	×	1	
Jser Name:	lisa	Register ok!		
elephone:		ок		
Address:				
Remark:				
Pagia		- Cov	und l	
Regis	lei	Car	icel	

Account, Password and Retype are required, click Register, it will pop OK. Get back and log in the account you registered just now.

4. Click Device part, you can see all devices in LAN or internet.





Instructions:

USR-WIFIIO-83 is default name, D8-B0-4C-F2-25-D0 is the MAC address.



Blue means online, gray means offline; Signal icon means LAN, earth means internet.



Click the device Icon, it will show "Open URL", you will open built-in webpage. This IP address is the one that router assigned to USR-WIFIIO-83.

5. Click the device you want to control, is shown as below, number 1~8 means 1~8 channel, you can control each channel by these buttons:



Instructions:

- (1) Click this block to choose each channel icon.
- (2) Click this clock to add timer task, you can manage the exist tasks.



(4) Relay state:

	ଚ	2013-12-19 13:48	-
ı2-19 13:48 ▼	Q	SU MO TU WE TH FR SA Turn ON	
n ON n OFF			
	TU WE TH FR SA n ON n OFF n Reverse	D TU WE TH FR SA n ON n OFF n Reverse	D TU WE TH FR SA n ON n OFF n Reverse

(3) Click this button to lock this channel, you will not be able to turn this channel on/off until unlock it.



yellow means on, gray means off

(5) This is used to set the whole relay. Click this, we can see:



All ON: turn all channels on. All OFF: turn all channels off.

Touch mode: in this mode, if you turn on the channel, it will keep state, when you turn off, the channel is off.

Click it to switch to Jog mode: in this mode, you need to keep touching on, when you release, the channel will be off.

Start mode: click this to save, next time when you power on relay, it will work in the state that you set.

(6) This is used to set up USR-WIFIIO-83, here is the device setting interface:





In the middle of the page, we can see Activation, we can remote control the relay by activate it. (Log your account first) Click Activation, as shown below:

Activation:	Can remote control device	Activation
Image:	Device has been activated!	
	ОК	New Image

Device can only be activated one time.

You can also change device Name, and image here, click Change to save settings. The Password is device password, default "admin", WIFI module will restart after you change password.



Get back to Device page, we will see changes.



🗊 Smart I	ot for Windows V1.0 Beta							
1	lisa_usr	C	Device	Ð	Ξ		Control	$\mathbb{Z} \oplus$
							Output	
	Device		LISa_I es D8-B0-4C-F2-2	55 5-D0		X	1	6
1	User				_	AIL	Ge	9
\checkmark	0301	Da.	ddddd				2	
\mathbf{P}	Message		D8-B0-4C-E0-0	0-11			0	6

6. In User part, as shown below:

👤 lisa_usr		User				
🏫 Device	Account Informa	ition				
🛟 User		Change password	Log out			
🗩 Message	Cloud services					
		Manage cloud devices				
Iviore		Synchronized to local	Synchronized to cloud			

Account information: to change password and log out

Cloud Services instructions: This part is important in remote control.

1) Click Manage cloud devices, we can check the devices under your account. Only after log in your account, activation, can you see these devices.

Clou	d devices		×
Lisa_Test D8-B0-4C-F2-25-D0			New Image Upload
	Device MAC:	D8-B0-4C	-F2-25-D0
	Device name:	Lisa_Test	
	Password:	•••••	୕
	Create time:	2013-11-0	03 05:23:54
	Change	Remove	Finish

- 2) Synchronized to local: Synchronize your devices from cloud to local, this is used when you use other network/app, that is remote control, click it and devices under your account will show in your new network/app.
- 3) Synchronized to cloud: Synchronize your devices from local to cloud, this is used when you change some setting on local devices, click this, the cloud server will save



your new settings.

7. Now you can control the relay remotely.

Log in your device in other network---->open the app---->select User column---->log in your account---->click Synchronized to local---->select Device part and refresh

- 8. If you followed all above steps but it still did not work, please check these points:
 - 1) Log in built-in webpage:



 Socket Setting page, see Server Address, here should be "www.zhangkongbao.com" or "42.96.196.194"

System Info	Network Parameters setting(TCPB) Open the TCPB function	Enable	~
Work Mode	Port ID	8899	
STA Setting	Server Address	www.zhangkongbao.com	
	TCPB Time Out Set.ing	0	
AP Setting		保存	
Socket Setting			

Change to this, click Save, in module admin page, choose Restart module.

Appendix A

A. Triple protection makes your control safer

- 1. Built-in webpage need user name and password to log in.
- 2. Can set independent password for each device.
- 3. For remote control, user can register an account to manage cloud devices.

B. The essential steps of remote control

- 1. Register and log in your account
- 2. Activate the device
- 3. Synchronize to and from cloud

Appendix B Contact Information

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Appendix C Disclaimer

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Appendix D Update History

- V1.0 First edition publish
- V1.1 Some content change with product update, did not publish
- V1.2 Some content change with product improvement, did not publish
- V1.3 Rearrange the instruction, add content about how use it on cellphone, general release.
- V1.4 Describe the instructions based on Android system.