SHENZHEN CHAINWAY INFORMATION TECHNOLOGY CO., LTD

V600 User Manual

2017-10-25



V600 User Manual

Contents

Statement				
Chapter 1 Introduction	6			
Chapter 2 Installation	7			
2.1 Extrinsic feature	7			
2.2 SIM card and Micro SD card installation	10			
2.3 Power connection	10			
2.4 Power Button	11			
Chapter 3 Data Acquisition	12			
3.1 RFID	12			
3.1.1 14443A	12			
3.1.2 14443B	14			
3.2 Fingerprint	15			
3.3 Camera	16			
3.3.1 Front Camera				
3.3.2 External Camera (optional)	17			
3.4 OBD				
Chapter 4 Network Communication	21			
4.1 Phone	21			
4.1.1 Phone Call	21			
4.1.2 Contacts				
4.1.3 Messaging				
4.2 GPS	24			
4.3 Bluetooth				
Chapter 5				
5.1 PING				
5.2 Volume Settings				

5.3 Sensor	29
5.4 Keyboard	30
5.5 Network	31

Statement

2013 by ShenZhen Chainway Information Technology Co., Ltd. All rights reserved.

No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, without permission written from Chainway. This includes electronic or mechanical means, such as photocopying, recording, or information storage and retrieval systems. The material in this manual is subject to change without notice.

The software is provided strictly on an "as is" basis. All software, including firmware, furnished to the user is on a licensed basis. Chainway grants to the user a non-transferable and non-exclusive license to use each software or firmware program delivered hereunder (licensed program). Except as noted below, such license may not be assigned, sublicensed, or otherwise transferred by the user without prior written consent of Chainway. No right to copy a licensed program in whole or in part is granted, except as permitted under copyright law. The user shall not modify, merge, or incorporate any form or portion of a licensed program with other program material, create a derivative work from a licensed program, or use a licensed program in a network without written permission from Chainway.

Chainway reserves the right to make changes to any software or product to improve reliability, function, or design.

Chainway does not assume any product liability arising out of, or in connection with, the application or use of any product, circuit, or application described herein.

No license is granted, either expressly or by implication, estoppel, or otherwise under any Chainway intellectual property rights. An implied license only exists for equipment, circuits, and subsystems contained in Chainway products.

V600 User Manual

Chapter 1 Introduction

Chainway V600 is a fixed vehicle computer with superior and reliable performance. Featuring 4G LTE network, 2.4G & 5G dual-band Wi-Fi, ultrafast Quadcore processor, GPS & BDS, two-channel external camera,5MP autofocus camera, fingerprint and face recognition, OBD data collection, Bluetooth 4.0 as well as biometrics, supporting calls, SMS, voice and recording functions, it can fully realize the overall management of driving school vehicles, school buses, taxis, buses, trucks etc, effectively ensuring traffic safety.

Chapter 2 Installation

2.1 Extrinsic feature

V600 Extrinsic feature and interface are showed as below:

Front:



Back:



Top:



V600 User Manual

Right:



2.2 SIM card and Micro SD card installation

Refer to top picture in 2.1, SIM card and Micro SD card slot is on the right side above. SIM card slot needs to be opened by niddle.

2.3 Power connection

Refer to right picture in section 2.1, connect one end to V600 device, the other end to vehicle to supply power.

Attention: Under development stage, the power cable can be connected to the DC adapter to supply power, please pay attention to VCC and GND connection difference via the sign on the cable.

2.4 Power Button

Refer to right picture 2.1, long press the power button for 3s to power on and off the device. Short press the power button to get the device into and out of sleep mode.

Chapter 3 Data Acquisition

V600 is able to gain its high data acquisition ability through RFID, fingerprint and camera:

- Data acquisition, identification and validation for passengers and drivers can be collected with fingerprint and IC card.
- Face recognition can be established by related software.
- Used in data acquisition for driving school vehicles, school buses, taxis, buses, trucks etc.

3.1 RFID

V600 equip with optional NXP HF module, it supports ISO14443A/B protocol.

3.1.1 14443A



1. Open App Center. The test demos are showed as below:

- 2. Press "14443A", and press "scan" to start scanning.
- 3. The function supports M1 and ULTRA LIGHT read and write.

	🗱 🗶 📋 6:51 PM	🖬 🔛 🔛 💼 6:51 PM
< 🔁 14443A	1	< 🔁 14443A
SCAN	M1 ULTRA LIGHT	SCAN M1 ULTRA LIGHT
Auto Scan	Interval 100 ms	Tag Type: S50 Key Type: A
		Key: FFFFFFFFFF
		Sector: 1 Block: 0 Read
		00000000000000 Write
		General Automatic

total	0	success	0	
	Clear	S	Scan	

3.1.2 14443B

In Appcenter to open "14443B" function and UID infor can be scanned.



3.2 Fingerprint

- 1. Open the Fingerprint Demo in Appcenter.
- 2. Put the finger to the fingerprint module and set the ID/name of the template under "ACQUISITION".
- 3. Put the finger to the fingerprint module properly and identify by ID/Name/Score under "IDENTIFICATION".
- 4. The local templates can also be checked under "Data".

3.3 Camera

3.3.1 Front Camera

Click icon "Camera" in the home page and test the front camera function:



3.3.2 External Camera (optional)

Connect the external camera to the extension cable to get external camera running, refer to picture below:





Demo and test:

1. Open OTG function in App center first.



2. Enter "Mainactivity" to and test the external camera function:



3.4 OBD

OBD with below functions:

- Accurately record the location, speed and fuel consumption, and trigger real time alarm.
- It helps analyze driving behaviors and give pertinent suggestions, saving traffic overheads.
- Professional vehicle fault diagnosis is realized to ensure road safety and prolong life span.

Connect OBD connector to vehicle, refer to picture below:



Chapter 4 Network Communication

Whether indoors or outdoors, V600 provides enterprises with anywhere, anytime real-time connectivity by Bluetooth, fast 4G LTE network and 2.4G & 5G Wi-Fi.

4.1 Phone

4.1.1 Phone Call

- 1. Click this icon.
- 2. Click the number button to input the numbers.
- 3. Click the button to confirm and dial.
- 4. Click the **calling**.



4.1.2 Contacts

- 1. Click "Contacts" to open the contacts list.
- 2. Click icon to add the new contact.
- 3. Click icon to import/export or delete the contact list.

Group	<u></u>	*	Favorites
	ME	No contacts.	
	Set up my profile		Contact List
	Delete Contact		
	Contacts to disp	blay	
	Import/export		
	Accounts		
	Settings		
	C Share visible co	ntacts	

4.1.3 Messaging

- 1. Click icon 🔛 to open the message list.
- 2. Click icon sto input the content.
- 3. Click icon \geq to send the message.
- 4. Click icon to add photos, videos.



4.2 GPS

- 1. Open the GPS demo in App center and turn on GPS module.
- 2. Set the GPS parameters and get the GPS data information.



V600 User Manual

Ø Ŷ Q B ? 8 ⊿8 11:17	7 лм 👻 🖞 🔮 🖞 😫 🛛 🤍 🔏 🕯 11:44 лм
MY LOCATION	Status : Locating Satellite : 0/3
Google's location service	Lon : Lat : Altitude : Time :
such as Wi-Fi and mobile networks to determine your approximate location	The satellite signal
GPS satellites Let apps use GPS to pinpoint your location	
GPS EPO assistance Use GPS assistance data (EPO) to speed up GPS positioning.	
EPO settings Click to modify EPO configurations	
A-GPS GPS can speed up the fixed time of location with assistant data via wireless data connection	0 0 0
	20# 32# 193#

4.3 Bluetooth

- 1. Open the Bluetooth demo in App center and turn on the Bluetooth.
- 2. Input the content or select the file, then scan the nearby Bluetooth printer and pair them.
- 3. Select the printer and click "Print" to print.



Chapter 5

5.1 PING

- 1. Open the Ping in App center.
- 2. Set the Ping parameters and select the internal/external addresses.



5.2 Volume Settings

- 1. Open the Volume Setting demo in Appcenter.
- 2. Set the volumes based on the requirements.

≡ AppCenter		약 🎐 약 🖿 🛛 🔍 🗐 11:45 AM		
030			🛀 Volume setti	ngs
2D(S)	BT Printer	Keyboard	SYSTEM	
Network	GPS	Analog Call	ALARM	
UHF	14443A	14443A CPU	VOICE CALL	
14443B	15693	RFID_LF	NOTIFICATION	•
Battery	Fingerprint	■))) Volume	RING	•
4-0	Δ	8		•

5.3 Sensor

- 1. Open the Sensor demo in App center.
- 2. Test the sensor based on the requirements.

≡ AppCer	nter	1	(💥 Sensor	KEYBOARD
UHF	14443A	14443A CPU	Light	
¢		¢	R G B Open	Auto
14443B	15693	RFID_LF	P-Sensor value : 1.0	
Battery	Eingerprint	⊲))) Volume	Light Sensor value : 160.0	
4-0 Sensor	Beidou	PSAM		
Ō		2)		
Camera	Camera ba	NFC		
Printer				

5.4 Keyboard

- 1. Open the Keyboard demo in Appcenter.
- 2. Set and test the key values of the device.

 			上午4:00
〈 💽 按键测试			传感器
19 20 21 22	OK HOME键	menu	返回键

5.5 Network

- 1. Open the Network demo in Appcenter.
- 2. Test the WIFI/Mobile signal based on the requirements.

≡ AppCen	ter		2021	💎 🖌 🗿 11:51 am	4 0 4 D	🦁 🖉 📓 11:51 AM
	Network Signal Tool		Tool	Network Sig	nal Tool	
E	Pipa		WIFI	MOBILE	WIFI	MOBILE
			Connected To : YF [ac:f1:d IP: 192.168.100.65 Speed dBm	f:a5:12:a0] : 2 Mbps Level : -92	SP: UNKNOWN Statu Network Type: UNKN	IS : UNKNOWN OWN SS : UNKNOWN Af Strength
2D(S)	BT Printer	20 Employed Keyboard	360WiFi-0958 [f0:7b:cb:a1: 回恋: [WPA2-PSK_COMP][FSS] [远道:10+2457 行极:-53dbr 360WiFi-4797 [64:27:37:05]] [H: 2462 号版: [T1dbr [清定:11+2462 号版: [T1dbr	51:60] :b6:2b]		
Network	GPS	Analog Call	chainway [38:83:45:97:84:6 而是: [WPA-PSK-TRIP-CCMP]] TRIP+CCMP[WPS][LSS] 信道: 3 × 2422 第级: -70 dBm	i4] MPA2-PSK-	elen .	
UHE	14443A	14443A CPU	jls [44:2b:03:8b:3e:8c] 創題: [WPA2-PSK-COMP][ESS] [活道: 6 * 2437 - 所致: - 79 dbm chainway [38:83:45:80:b6:4	2000000000000		
IMEI MAC:	:353471044960 00:08:22:00:42	0173 :0e(√)	WiFi Count : 12	Pause	9 	Time .