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ddpai Z50 Dual GPS

DDPAI Z50 Dual 4K Dash Cam User Manual

Model: Z50 Dual GPS

1. Introduction

The DDPAI Z50 Dual 4K Dash Cam is a high-definition front and rear vehicle recording system designed to capture clear footage of your journeys. Featuring a 4K front camera with a Sony IMX415 sensor and a 1080P rear camera, it provides comprehensive coverage for accident evidence and driving insights. This manual provides detailed instructions for installation, operation, and maintenance of your dash cam.

Image: The DDPAI Z50 Dual 4K Dash Cam main unit, a separate rear camera, and a smartphone displaying the dash cam's live view and map data.

2. Package Contents

Please check the box for the following items:

- DDPAI Z50 4K Dash Cam (Main Unit)
- 1080P Rear Cam
- Car Charger
- Power Cable (9.84ft)

- Rear Cam Cable (18ft/5.49m)
- Installation Tool
- User Manual
- 3M Sticker *2
- Electrostatic Sticker
- Snapshot Button (if included with specific model variant)
- Hardwire Kit (if included with specific model variant, otherwise sold separately for 24H Parking Mode)

3. Product Overview

The DDPAI Z50 features a compact design with a 2.3-inch LCD screen for easy viewing and control. It includes a front camera with a 7-glass lens and a separate rear camera for dual-channel recording. Key controls are located on the main unit.

Image: An exploded view diagram of the DDPAI Z50 dash cam, highlighting the 7-glass lens, main unit with control buttons (Set, Mic, Album, Lock), and the 360-degree rotatable rear camera.

4. Setup

4.1 MicroSD Card Installation

The DDPAI Z50 requires a MicroSD card (not included) for recording. It supports up to 128GB. We recommend using a SAMSUNG SD Card for optimal performance. Insert the MicroSD card into the designated slot on the dash cam until it clicks into place.

4.2 Dash Cam Installation

The dash cam is designed for easy and discreet installation. Use the provided 3M adhesive sticker and electrostatic sticker to mount the front camera on your windshield, ensuring it does not obstruct your view. Position the rear camera on your rear window using its adhesive. Route the power cable and rear camera cable neatly to the car charger and main unit.

Image: Visual guide for installing the front dash cam near the rearview mirror and the rear camera on the back window, showing cable routing to the car charger.

5. Operating Instructions

5.1 Power On/Off and Recording

Once connected to your vehicle's power supply, the dash cam will automatically power on and begin recording when the vehicle starts. It will power off automatically when the vehicle is turned off.

5.2 Built-in WiFi & App Control

The DDPAI Z50 features built-in WiFi for seamless connection to the DDPAI App on your smartphone. This allows you to:

- **Preview:** View live footage from both cameras.
- **Playback:** Review recorded videos directly on your phone.
- **Download:** Save important video clips to your device.
- **Share:** Easily share recordings with police or insurance companies if an accident occurs.
- **Settings:** Adjust various dash cam settings.

Image: A hand holding a smartphone showing the DDPAI app, with a live view from the dash cam and a map displaying the vehicle's location, indicating easy preview, download, and control via WiFi.

5.3 Built-in GPS and SR 2.0 Vision

The integrated GPS module records your driving route, deviation, altitude, and speed. The SR 2.0 Vision feature enhances

the driving experience by overlaying real-time data onto your video footage, providing a comprehensive record of your journey.

Image: A smartphone screen displaying dash cam footage with an overlay of GPS data, including speed, altitude, and a map, demonstrating the SR 2.0 Vision feature.

6. Key Features

6.1 High Definition Dual 4K Recording

The front camera records in true 4K (3840x2160P @30fps) utilizing an 8MP CMOS SONY IMX415 Sensor, capturing license plates and road signs with exceptional clarity up to 59 feet away. The rear camera records in 1080P, providing crucial evidence for rear-end incidents.

UHD 8MP Camera Explore Your 4K Journey

With Sony IMX415 Sensor,
Z50 bring you cinematic **4K (2160P)** image quality and distant scenes with lifelike clarity.
And with a **1080P rear camera**, monitor in **Dual-channel** for your driving safety,
making the license plate and signpost easy to read even if it is far away from **59ft**.

Image: Split image showing the clarity of 4K front camera footage (bottom) and 1080P rear camera footage (top), highlighting the readability of license plates from a distance.

6.2 Night Vision (NightVIS Technology)

Equipped with Sony IMX415, a 7-optical lens, and F1.75 aperture, combined with DDPAI's unique NightVIS technology, the Z50 enhances nightscape views. It captures more light and image information, producing ultra-clear nighttime videos and pictures.

NightVIS Technology, Super-Clarity, Even in Low Light

Enhance **nightscape view**, take in more light and more image information, be empowered in darkness, and **provide ultra-clear nighttime video** and **pictures.**

Image: An illustration demonstrating the NightVIS technology, showing how the Sony IMX415 sensor, F1.75 aperture, and 7-glass lens contribute to clear nighttime recording, with a focus on license plate readability in low light.

6.3 G-sensor & Parking Monitor

The built-in G-sensor automatically detects sudden shocks or collisions, locking the video files to a separate folder to prevent overwriting. The IPS power management system intelligently monitors car voltage to prevent battery drain, enabling 24-hour parking surveillance. For 24H Parking Mode, an optional hardwire kit (ASIN: B08LL4L87C) is required.

6.4 Loop Recording

The dash cam continuously records in a loop. When the MicroSD card is full, the oldest non-locked files will be automatically overwritten by new recordings, ensuring continuous operation without manual intervention.

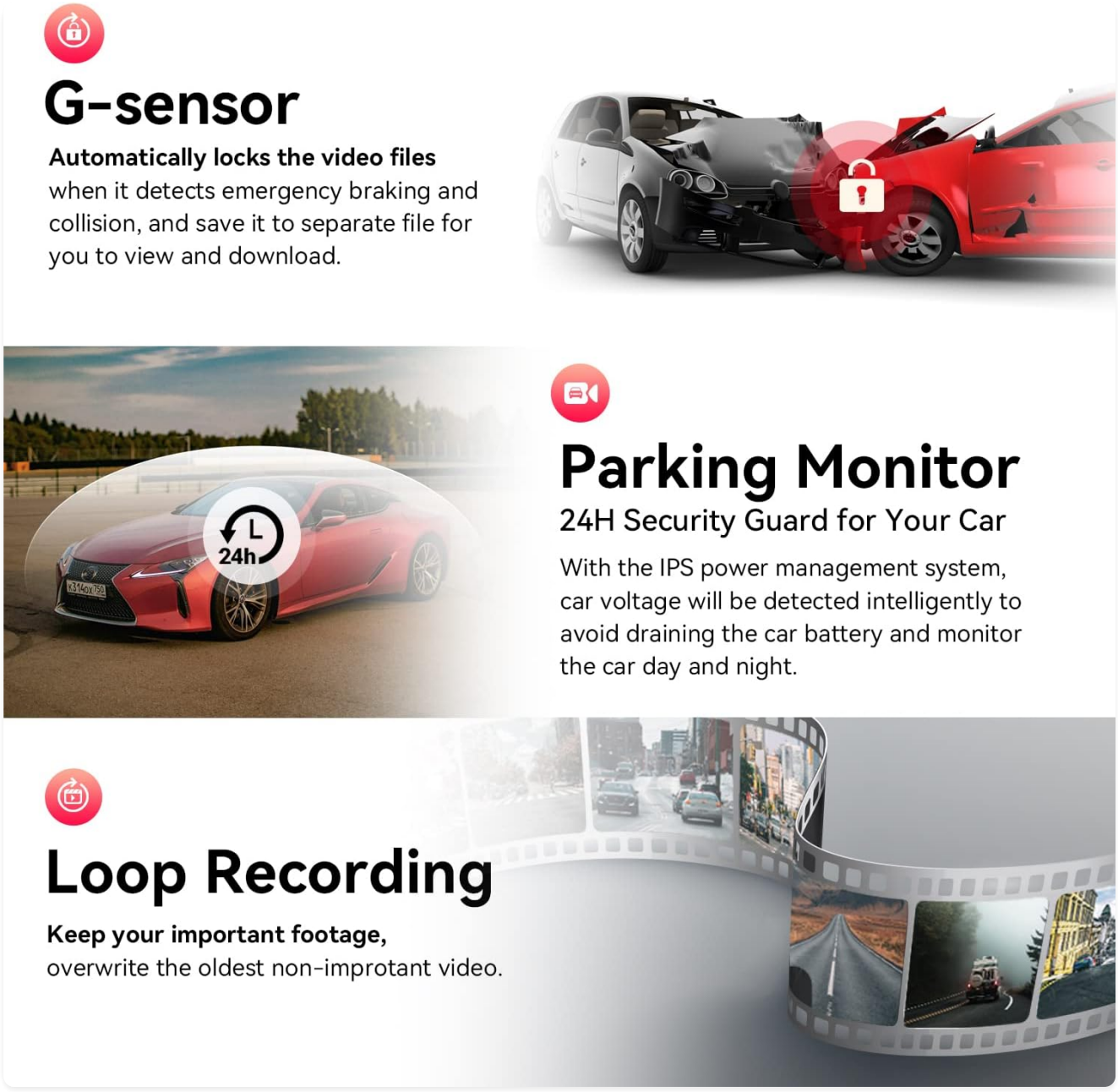

Image: Three distinct illustrations: a car accident scene representing G-sensor activation, a car in a parking lot with a '24h' icon for Parking Monitor, and a film strip with arrows indicating loop recording.

6.5 D2 Save Dual Emergency Storage

In the event of an SD card error, the system automatically switches to NAND Flash storage and repairs damaged files. This ensures that important footage is not lost, providing a reliable backup mechanism.

D2 Save Dual Emergency Storage Keep Every Important Moment

When the system detects an **SD card** error, it will automatically switch to **NAND Flash storage** and repair damaged files to keep the whole footage, don't worry miss any important events.

Image: A visual representation of the D2 Save system, showing a TF card and NAND Flash chip, with an alert icon indicating automatic switch to NAND Flash upon SD card error to save footage.

6.6 Super Capacitor

The DDPAI Z50 utilizes supercapacitors instead of traditional lithium batteries. This design allows the dash cam to operate reliably in extreme weather conditions, from -4°F to 158°F (-20°C to 70°C), extending its lifespan and eliminating concerns about battery bulging.

7. Maintenance

- **Clean Lenses:** Regularly clean the front and rear camera lenses with a soft, lint-free cloth to ensure clear recording quality.
- **MicroSD Card:** Periodically format the MicroSD card (at least once a month) within the dash cam's settings to maintain optimal performance and prevent data corruption. Back up any important files before formatting.
- **Firmware Updates:** Check the DDPAI App for available firmware updates to ensure your dash cam has the latest features and bug fixes.
- **Operating Temperature:** Avoid exposing the dash cam to temperatures outside its specified operating range (-4°F to

158°F) for prolonged periods.

8. Troubleshooting

Problem	Possible Cause	Solution
Dash cam does not power on.	No power supply; faulty power cable/car charger.	Check car charger connection. Ensure vehicle's power outlet is working. Try a different power source if available.
Recording stops or footage is corrupted.	MicroSD card issue (full, corrupted, incompatible); faulty card.	Format the MicroSD card via the dash cam settings. Try a new, recommended MicroSD card (e.g., Samsung, 128GB Max).
Rear camera not working.	Loose cable connection; faulty rear camera.	Ensure the rear camera cable is securely connected to both the rear camera and the main unit.
WiFi connection issues.	Incorrect password; app issues; interference.	Ensure correct WiFi password. Restart dash cam and smartphone. Reinstall DDPAI App.
"Sensor abnormal" message.	Internal sensor error.	Restart the device. If the issue persists, contact customer support.

9. Specifications

Feature	Detail
Model Name	Z50 Dual GPS
Product Dimensions	3.23 x 2.05 x 3.23 inches
Item Weight	5.3 ounces
Video Capture Resolution	Front: 4K (3840x2160P @30fps); Rear: 1080P
Sensor	Sony IMX415 (Front)
Lens	7 Optical Lens, F1.75 Aperture
Storage	Supports up to 128GB MicroSD Card (not included), NAND Flash emergency storage
Connectivity	Built-In WiFi, USB
Special Features	Built-In WiFi, G-Sensor, App Control, Built-In GPS, NightVIS Technology, Super Capacitor, Loop Recording, 24H Parking Monitor (with optional hardwire kit)

Feature	Detail
Operating Temperature	-4°F to 158°F (-20°C to 70°C)
Mounting Type	Windshield Mount

10. Warranty and Support

For warranty information and technical support, please refer to the official DDPAI website or contact DDPAI customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.
Official DDPAI Website: www.ddpai.com

Related Documents - Z50 Dual GPS

Z50	DDpai Z50 GPS DUAL Dash Cam - User Manual Comprehensive user manual for the DDpai Z50 GPS DUAL dash cam, covering installation, operation, features, and troubleshooting. Learn how to use your DDpai Z50 for reliable vehicle recording.
	ROVE R2-4K PRO Dash Cam User Manual: Features, Setup, and Support Comprehensive user manual for the ROVE R2-4K PRO Dash Cam. Learn about installation, features, settings, Wi-Fi connectivity, parking modes, troubleshooting, and warranty information for your vehicle's advanced driving recorder.
Z50 Pro User Manual	DDPAI Z50 Pro User Manual: Installation, Features, and Operation Guide Comprehensive user manual for the DDPAI Z50 Pro dash cam, covering installation, app connection, video and photo functions, parking monitoring, ADAS, GPS, maintenance, and FAQs.
Z50 Pro Dual Керівництво користувача	DDPAI Z50 Pro Dual Dash Cam User Manual User manual for the DDPAI Z50 Pro Dual dash cam, covering technical specifications, package contents, product overview, button descriptions, indicator guide, installation instructions, and app usage.
	DDPAI Z50 Pro Dash Cam User Manual User manual for the DDPAI Z50 Pro 4K dash cam (Model DR2004). Provides detailed information on specifications, package contents, product overview, button functions, indicator guide, installation steps, and app connectivity. Includes FCC compliance information and contact details.

	[HawkEvo HE-DC001 4K Dual Dash Cam User Manual | Installation, Setup, and Operation Guide] User manual for the HawkEvo HE-DC001 4K dual-lens dash cam. This guide provides detailed instructions on product overview, specifications, package contents, installation of front and rear cameras, memory card setup, mobile app connection (Dash Go), GPS player usage, basic operations, video and system settings, parking mode, and frequently asked questions. Includes FCC compliance information.

Documents - ddpai – Z50 Dual GPS

[pdf]

Karta Produktu Wideorejestrator DDPAI Z50 DUAL GPS manta karta informacyjna produktu pl api wideorejestrator ddpai z50 dual gps |||

Wideorejestrator DDPAI **Z50 DUAL GPS** 6934915203505 Format zapisu plikw Jako zapisu Jzyk menu Karta pamici w zestawie Kt widzenia Kolor Komunikacja Konstrukcja obiektywu Maksymalna pojemno kart pamici Marka Matryca Model procesora Model sensora Nagrywanie dwiku Pami wbudowana Przektna ekranu cale...

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[pdf]

Karta Produktu Wideorejestrator DDPAI Z50 DUAL GPS manta karta informacyjna produktu pl Manta Język menu polski angielski arabski rosyjski pamięci w zestawie brak Kąt widzenia ° 140 Kolor Czarny Komunikacja api wideorejestrator ddpai z50 dual gps inline |||

Wideorejestrator DDPAI **Z50 DUAL GPS** 6934915203505 Format zapisu plikw Jako zapisu Jzyk menu Karta pamici w zestawie Kt widzenia Kolor Komunikacja Konstrukcja obiektywu Maksymalna pojemno kart pamici Marka Matryca Model procesora Model sensora Nagrywanie dwiku Pami wbudowana Przektna ekranu cale...

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DDPAI Technology Co., Ltd

Declaration concerning Antenna Specification

It is hereby declared that the product

Model No.: Z50 Dual GPS, Z50, Z50 GPS, Z50 Dual
FCC ID : 2AJFX-Z50

fulfills the requirement in FCC test relating to the antenna type.

The device specified above confirms to the FCC recommendations for (internal antenna type(s)) described below:

Model No. of antenna: N/A
Type of antenna: FPC antenna
Gain of the antenna: 2 dBi
Frequency range: 2402-2480MHz; 2412- 2462MHz

The mounting of the antenna is fixed to the radio module and no other antenna should be used.

Company name: DDPAI Technology Co., Ltd
Address: Floor 12,Yihua finance building, Nanshan software industry park , Xuefu Rd, Nanshan district,Shenzhen, China
City: Shenzhen
ZIP / Postal code: /
Country: China
Place: Shenzhen Date: 7/25/2022

Signature:

version01

[pdf] Specifications Decleration of Conformity

Antenna Specification Daniela Eckert 17 Z50 Dual GPS AntSpec r1 DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

DDPAI Technology Co., Ltd Declaration concerning Antenna Specification It is hereby declared that the product Model No.: Z50 Dual GPS, Z50, Z50 GPS, Z50 Dual FCC ID : 2AJFX-Z50 fulfills the requirement in FCC test relating to the antenna type. The device specified above confirms to the FCC reco...

lang:en score:37 filesize: 90.46 K page_count: 1 document date: 2022-07-25

Anbotek Product Safety

Report No.: 18220WC20138501 FCC ID: 2AJFX-Z50 Page 1 of 30

FCC Test Report

Client Name : DDPAI Technology Co., Ltd

Client Address : Floor 12,Yihua finance building, Nanshan software industry park, Xuefu Rd, Nanshan district,Shenzhen, China

Product Name : Dash Cam

Report Date : Jul. 21, 2022

Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited Code:AB-RF-05-b

[pdf] Test Report

Winkey Wang 14 Z50 Dual GPS TestRpt DTS BLE r1 DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

Report No.: 18220WC20138501 FCC ID: 2AJFX-Z50 Page 1 of 30 FCC Test Report Client Name : DDPAI ... ng s : DDPAI Technology Co., Ltd : DDPAI Technology Co., Ltd : Dash Cam : Z50, Z50 GPS, Z50 Dual, Z50 Dual GPS : DDPAI : Input: 5V 2A Page 4 of 30 Test Standard s Test Method s : FCC Part15 Sub...

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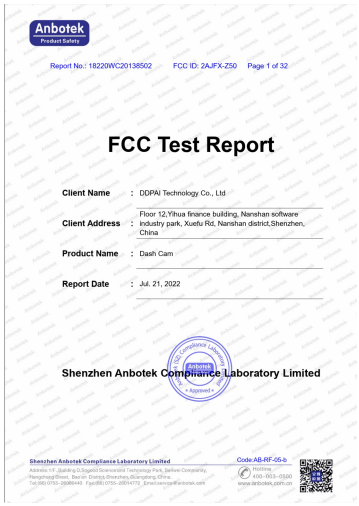

Anbotek Product Safety

Report No.: 18220WC20138502 FCC ID: 2AJFX-Z50 Page 1 of 32

FCC Test Report

Client Name : DDPAI Technology Co., Ltd

Client Address : Floor 12,Yihua finance building, Nanshan software industry park, Xuefu Rd, Nanshan district,Shenzhen, China

Product Name : Dash Cam

Report Date : Jul. 21, 2022

Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited Code:AB-RF-05-b

[pdf] Test Report

14 Z50 Dual GPS TestRpt DTS WiFi r1 DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

Report No.: 18220WC20138502 FCC ID: 2AJFX-Z50 Page 1 of 32 FCC Test Report Client Name : DDPAI T ... ng s : DDPAI Technology Co., Ltd : DDPAI Technology Co., Ltd : Dash Cam : Z50, Z50 GPS, Z50 Dual, Z50 Dual GPS : DDPAI : Input: 5V 2A Test Standard s Test Method s : FCC Part15 Subpart C, Sectio...

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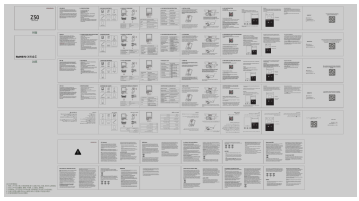

[pdf] User Manual

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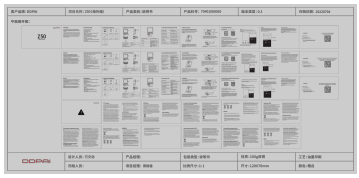

[pdf] User Manual

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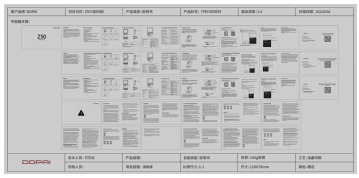

[pdf] User Manual

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Z50 70401000065 0.3 20220704 DDPAI Product Name:Dash Cam Z50 82x62x31.15mm Power on instantly Purple light is always on normally flashes slowly 1234 Abnormal storage flashes slowly Purple light flashes quickly 4Gb GPSBuilt-in GPS module Only applicable to Z50 GPS and Z50 Dual GPS Rear...

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Z40 70401000019 V0 3 20211104 cdr DDPAI Z50 EN files innpro pl s3 amazonaws |||

DDPAI Product Name:Dash Cam Z50 82x62x31.15mm Power on instantly Purple light is always on normally flashes slowly 1234 Abnormal storage flashes slowly Purple light flashes quickly 4Gb GPSBuilt-in GPS module Only applicable to Z50 GPS and Z50 Dual GPS Rear Camera Only applicable to Z50 Du...

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[pdf] Instructions

Z40 70401000019 V0 3 20211104 cdr 15 Z50 Dual GPS UserMan US r1 DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

Z50 82*62*31.15mm 5 6 2 1234 43 7 Z50 DDPAI 20204000211 V1.2 20210315 FCC statement This device complies with Part 15 of the FCC Rules. operation must meet the following two conditions: 1 This device may not cause harmful interference. 2 This device must accept any interference r...

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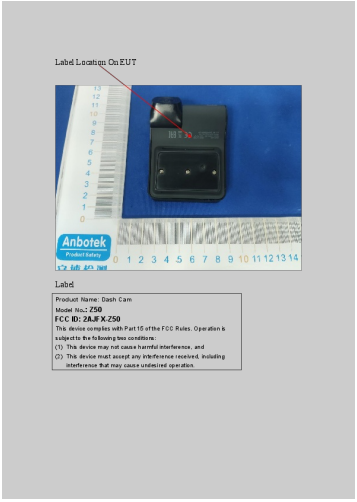

[pdf] Label

06 Z50 Dual GPS LabelSmpl US r1 DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

Label Location On EUT Label Product Name: Dash Cam Model No.: Z50 FCC ID: 2AJFX-Z50 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1 This device may not cause harmful interference, and 2 This device must accept any interference received,...

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Figure 1 anbotek 08 Z50 Dual GPS ExtPho DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

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Figure 5 anbotek 09 Z50 Dual GPS IntPho DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

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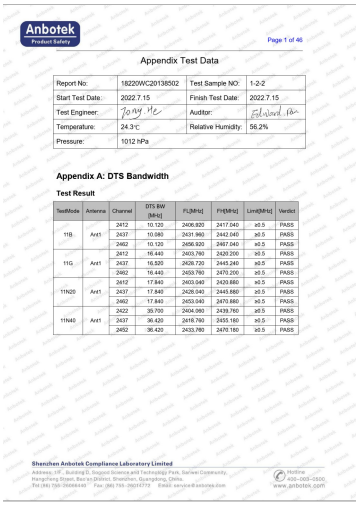
Anbotek Product Safety

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Appendix Test Data

Report No:	18220WC20138502	Test Sample NO:	1-2-2
Start Test Date:	2022.7.15	Finish Test Date:	2022.7.15
Test Engineer:	Tony He	Auditor:	Edward Hu
Temperature:	24.3°C	Relative Humidity:	56.2%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	F1[MHz]	F2[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.120	2406.920	2417.040	≥0.5	PASS
		2437	10.080	2431.960	2442.040	≥0.5	PASS
		2462	10.120	2456.920	2467.040	≥0.5	PASS
11G	Ant1	2412	16.440	2403.760	2420.200	≥0.5	PASS
		2437	16.520	2428.720	2445.240	≥0.5	PASS
		2462	16.440	2453.760	2470.200	≥0.5	PASS
11N20	Ant1	2412	17.840	2403.040	2420.880	≥0.5	PASS
		2437	17.840	2428.040	2445.880	≥0.5	PASS
		2462	17.840	2453.040	2470.880	≥0.5	PASS
11N40	Ant1	2422	35.700	2404.060	2439.760	≥0.5	PASS
		2437	36.420	2419.760	2455.180	≥0.5	PASS
		2452	36.420	2433.760	2470.180	≥0.5	PASS

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Tonscend 14 Z50 Dual GPS TestRpt DTS WiFi appendix DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

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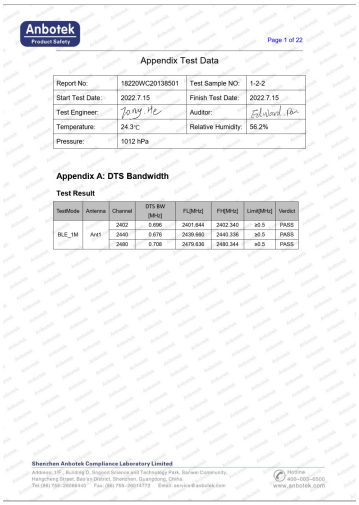
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Page 1 of 22

Appendix Test Data

Report No:	18220WC20138501	Test Sample NO:	1-2-2
Start Test Date:	2022.7.15	Finish Test Date:	2022.7.15
Test Engineer:	Tony He	Auditor:	Edward Hu
Temperature:	24.3°C	Relative Humidity:	56.2%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	F1[MHz]	F2[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.644	2402.340	≥0.5	PASS
		2440	0.676	2439.660	2440.336	≥0.5	PASS
		2480	0.708	2479.636	2480.344	≥0.5	PASS

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Tonscend 14 Z50 Dual GPS TestRpt DTS BLE Appendix Data DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

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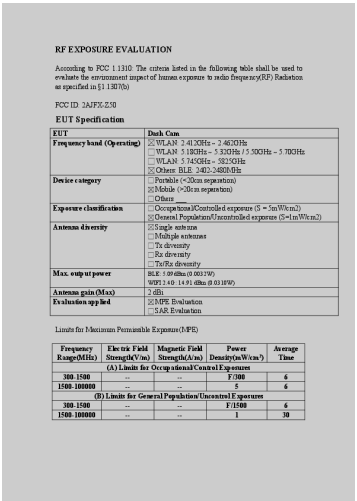
RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in § 1.1307(b)

FCC ID: 2AJFX-Z50

EUT Specification

EUT	Dash Cam
Frequency band (Operating)	☒ WLAN: 2.412GHz ~ 2.462GHz ☐ WLAN: 5.180GHz ~ 5.320GHz / 5.500GHz ~ 5.700GHz ☐ WLAN: 5.745GHz ~ 5825GHz ☒ Others: BLE: 2402~2480GHz
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2) ☒ General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	BLE: 1.09 dBm (0.0033W) WIFI: 3.43 / 14.91 dBm (0.0038W)
Antenna gain (Max)	2 dBi
Evaluation applied	☒ MPE Evaluation ☐ SAR Evaluation

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm²)	Average Time
(A) Limits for Occupational/Controll Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

[pdf] Specifications SAR Rating

RF EXPOSURE EVALUATION zhaowen 18 Z50 Dual GPS RFExp r1 DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

RF EXPOSURE EVALUATION According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency RF Radiation as specified in 1.1307 b FCC ID: 2AJFX-Z50 EUT Specification EUT Frequency band Operating Device categ...

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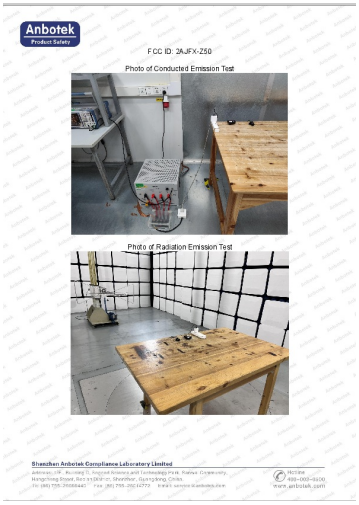

[pdf] Product Photos

Radiated Emission Setup Photos CN 10 Z50 Dual GPS TSup DDPAI Technology Co Ltd Dash Cam 2AJFX 2AJFXZ50 z50

FCC ID: 2AJFX-Z50 Photo of Conducted Emission Test Photo of Radiation Emission Test ...

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