

BOTSLAB W510

BOTSLAB W510 Wireless Outdoor Security Camera System User Manual

Model: W510 | Brand: BOTSLAB

INTRODUCTION

Welcome to the user manual for your BOTSLAB W510 Wireless Outdoor Security Camera System. This comprehensive guide provides detailed instructions for setting up, operating, and maintaining your new security system. Designed for ease of use and robust performance, the W510 system offers advanced surveillance capabilities to protect your property.

The BOTSLAB W510 system features 4K Ultra HD resolution, 360° pan-tilt functionality, color night vision, and AI-powered recognition. With solar power capabilities and local storage via the H200 HomeBase, it provides a reliable and subscription-free security solution.



Image: The complete BOTSLAB W510 Wireless Outdoor Security Camera System, including the H200 HomeBase and four W510

cameras with attached solar panels.

SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation. Failure to follow these guidelines may result in injury, damage to the product, or voiding of the warranty.

- Ensure all components are handled with care to prevent damage.
- Install cameras and solar panels securely to prevent falling.
- Do not expose the HomeBase to water or extreme temperatures.
- Use only the power adapters and cables provided by BOTSLAB.
- Keep the product away from children and pets.
- Avoid direct exposure of the camera lens to strong light sources for extended periods.
- Do not attempt to disassemble or modify the device. Refer to qualified personnel for service.

WHAT'S IN THE BOX?

Verify that all components are present in your package:

- H200 HomeBase (1 unit)
- W510 Camera body (4 units)
- Mounting bracket (4 units)
- Solar panel (4 units)
- Wall Mounting Screws Package (4 sets)
- Solar Panel Mounting Bracket / Wall Stickers (4 sets)
- Solar Panel Installation Screws (4 sets)
- Type-C Charging Cable (4 units)
- User Manual (Quick Guide + Certification) (1 unit)
- Warning Stickers (4 units)
- Base Station Adapter (1 unit)
- Hard Drive Mounting Screws (1 set)
- Ethernet Cable (1 unit)
- User Guide Card (1 unit)

Smart Voice Control for Your Security

Compatible with
Alexa & Google Assistant

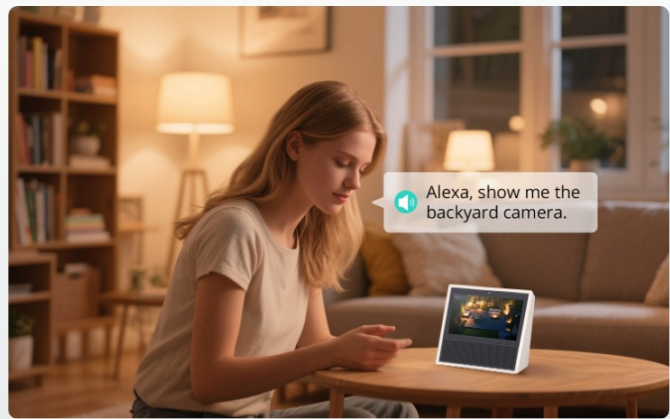


Image: A visual representation of all components included in the BOTSLAB W510 Security Camera System package.

SETUP

1. HomeBase H200 Setup

1. **Power On:** Connect the H200 HomeBase to a power outlet using the provided adapter.
2. **Network Connection:** Connect the HomeBase to your router using the supplied Ethernet cable. Ensure a stable internet connection.
3. **Storage Expansion (Optional):** The HomeBase comes with 32GB of internal storage. For expanded storage up to 16TB, you can install a compatible 2.5" hard drive (not included) into the designated slot. Refer to the HomeBase manual for detailed hard drive installation instructions.

No Monthly Fee

From 32GB to 16TB, Expand on Demand

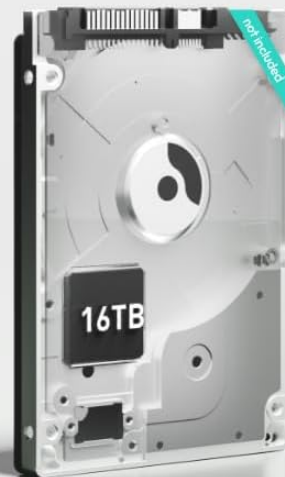
HomeBase H200

32GB

Internal Storage

16TB

Expandable Storage¹



^{*1}. Requires external hard drive (not included). Supports 2.5" hard drives.

Image: The H200 HomeBase unit, highlighting its 32GB internal storage and the option to expand storage up to 16TB with an external hard drive.

2. Camera and Solar Panel Installation

The W510 cameras are designed for outdoor use and are powered by solar panels, offering flexible installation options.

1. **Choose Location:** Select a location for each camera that provides optimal surveillance coverage and receives sufficient direct sunlight for the solar panel. The camera offers a 360° panoramic view and 33ft PIR detection range.
2. **Mounting:** Use the provided mounting brackets and screws to securely attach the camera and solar panel to a wall or other stable surface. The solar panel can be attached directly to the camera mount or detached and mounted separately for better sun exposure.

3. **Adjust Angle:** Adjust the angle of the camera and solar panel to ensure maximum sun exposure and desired viewing angle. The solar panel is 5W and requires approximately 30 minutes of direct sunlight for continuous operation.



Image: An illustration demonstrating the wireless setup of the security camera system, showing the HomeBase centrally located and cameras positioned around a property.



Image: Two examples of solar panel installation: one attached directly to the camera mount and another detached for optimal sunlight exposure.

OPERATION

1. App Installation and Pairing

1. **Download App:** Download the "BOTSLAB" app from the Google Play Store (for Android) or the Apple App Store (for iOS).
2. **Create Account:** Open the app and follow the on-screen instructions to create a new account or log in if you already have one.
3. **Add Device:** In the app, select "Add Device" and follow the prompts to pair your HomeBase and cameras. Ensure your smartphone is connected to the same 2.4GHz Wi-Fi network as the HomeBase during the initial setup.



Image: A smartphone screen showing the BOTSLAB app icon, indicating where to download the application.

2. Live View and Playback

- **Live View:** Once paired, you can access live video feeds from all connected cameras through the BOTSLAB app. You can monitor up to four different zones simultaneously.
- **Playback:** Review recorded footage stored on the HomeBase. The system automatically loops and saves up

to two months of footage with the internal 32GB storage.

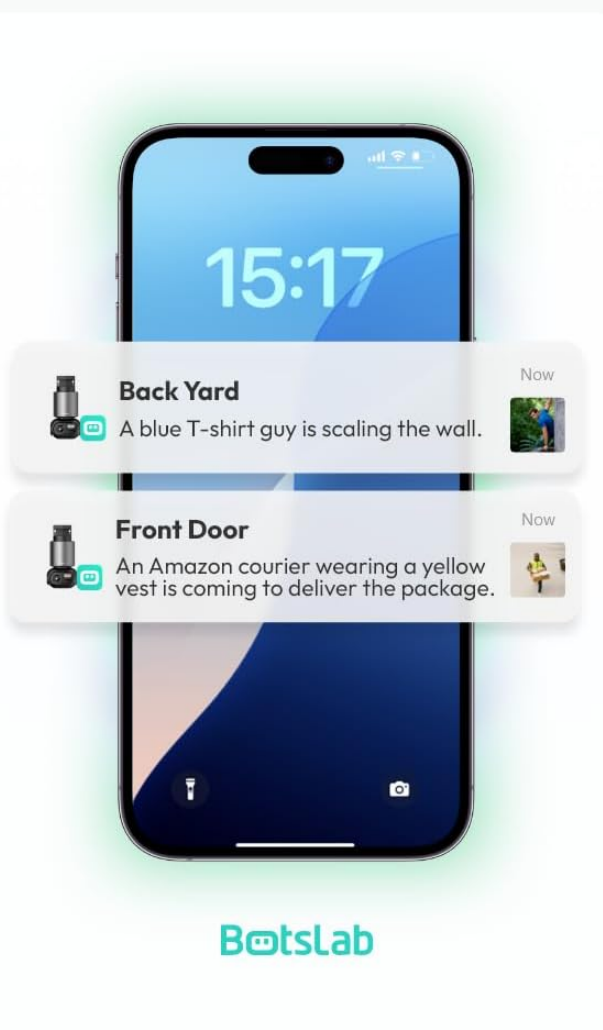
3. AI Recognition and Notifications

The BOTSLAB IQ system uses artificial intelligence for advanced detection and notifications.

- **Intelligent Notifications:** The camera identifies visitors (people, vehicles, pets) and sends detailed, descriptive notifications to your smartphone, informing you exactly what is happening without needing to open the app.
- **Customized Warnings:** The wireless outdoor camera analyzes the scene and can send customized warnings to suspicious individuals based on the severity level.
- **Quick Search:** Utilize the quick search function within the app to find specific events, people, vehicles, or objects in historical footage in approximately 1 second.

Know What Matters, **at a Glance**

It knows your visitors and sends a descriptive notification, so you know exactly what's going on without opening the app.



Other

Powered by 
Botslab IQ

Image: A comparison of smartphone notifications, showing the detailed, descriptive alerts provided by BOTSLAB IQ versus generic motion detection alerts from other systems.

Fast Search, **Accurate Results**

Find exact moments, people, vehicles,
or objects in your footage—**just in 1 second.**



kid's bicycle



Powered by 
BotLab IQ

Image: The fast search interface within the BOTSLAB app, demonstrating how users can quickly find specific moments or objects in their recorded footage.

4. Two-Way Audio

The cameras support two-way audio communication, allowing you to speak and listen through the camera via the app. This feature is useful for communicating with visitors or deterring unwanted guests.

Instant AI Recognition with HomeBase

Smarter, Faster, More Accurate

<1 Second Recognition

99% Accuracy



Person



Pet



Vehicle



Image: A visual representation of the two-way talk feature, showing a person communicating clearly with someone near the camera.

5. Night Vision

The W510 cameras provide vivid color night vision, capturing clear and colorful images even in low-light or pitch-black conditions. This enhances visibility and detail compared to traditional infrared night vision.

See Every Night in **Full Color**

Every detail stays visible
See what others miss at night



Image: A side-by-side comparison demonstrating the clarity and color retention of BOTSLAB's color night vision versus standard infrared night vision.

6. Smart Connectivity

The H200 Home Hub enables cross-camera tracking, automatically correlating videos from events occurring in the same time period across different cameras. This provides a comprehensive view of incidents.

7. Voice Control Integration

The system is compatible with popular smart home assistants like Amazon Alexa and Google Assistant, allowing for convenient voice control of your security cameras.

Wider Coverage

Strong & Stable Connection
with HomeBase

HomeBase Supports up to 8 Botslab Cameras

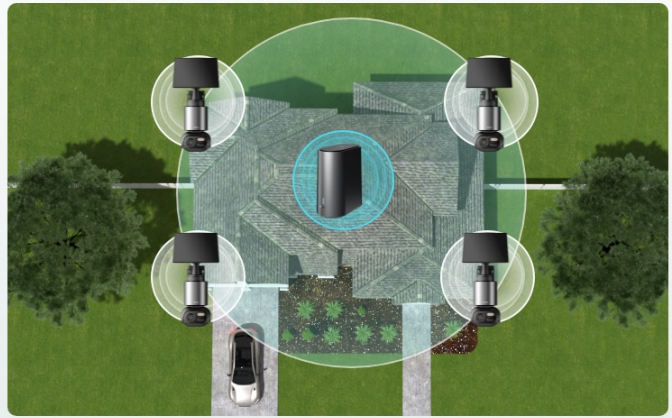


Image: A person interacting with a smart display, demonstrating the use of voice commands to access the security camera feed.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your BOTSLAB W510 security system.

- **Cleaning:** Periodically clean the camera lenses and solar panels with a soft, damp cloth to remove dust, dirt, or debris that may obstruct vision or reduce charging efficiency. Do not use harsh chemicals.
- **Battery Care:** The built-in 10000mAh battery is designed for long-term use with solar charging. Ensure the solar panel receives adequate sunlight to keep the battery charged. In prolonged periods of low sunlight, you may need to manually charge the camera using the Type-C cable.
- **Firmware Updates:** Regularly check the BOTSLAB app for available firmware updates for your HomeBase and cameras. Updates often include performance improvements, new features, and security enhancements.
- **Environmental Protection:** The cameras are IP66 weatherproof, designed to withstand various weather conditions. However, extreme conditions like prolonged heavy snow or ice may temporarily affect performance.

Crystal Clear 4K Resolution

Day and Night , 8x Zoom

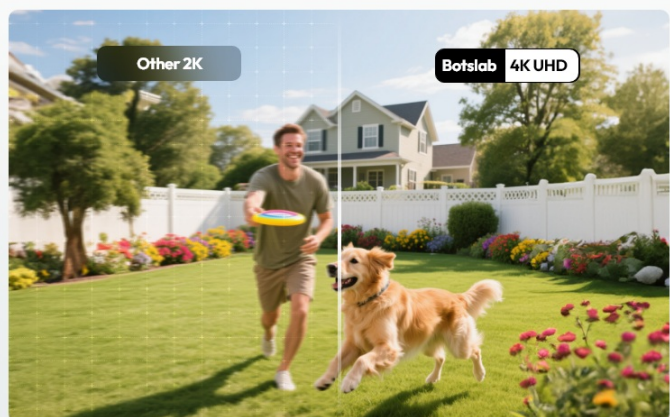


Image: A BOTSLAB camera mounted outdoors during a rain shower, illustrating its IP66 weatherproof rating and ability to withstand various weather conditions.

TROUBLESHOOTING

This section addresses common issues you might encounter with your BOTSLAB W510 system.

Problem	Possible Cause	Solution
Camera not connecting to HomeBase	Out of range; low battery; interference	Move camera closer to HomeBase; ensure solar panel receives enough sunlight or manually charge; reduce Wi-Fi interference.
No video feed/poor video quality	Weak Wi-Fi signal; dirty lens; network issues	Check HomeBase network connection; clean camera lens; restart HomeBase and camera.
Notifications not received	App notification settings; AI detection sensitivity; network issues	Check app notification permissions; adjust AI detection sensitivity in app; ensure stable internet connection.
Solar panel not charging	Insufficient sunlight; panel obstruction; faulty connection	Relocate panel to receive more direct sunlight; clear any obstructions; check cable connection between panel and camera.
HomeBase not recording	Storage full; hard drive issue (if installed); camera not connected	Check storage capacity in app; verify hard drive installation; ensure cameras are connected and recording.

TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	W510
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	4K (8MP Effective Still Resolution)
Connectivity Protocol	Wi-Fi (2.4G)
Power Source	Solar Powered (5W Solar Panel)
Battery Capacity	10000mAh (built-in)
Viewing Angle	360 Degrees (PT)
Night Vision Range	33 Feet (Color Night Vision)
Local Storage	32GB (HomeBase H200), expandable up to 16TB (with 2.5" HDD, not included)
AI Features	Human, Vehicle, Pet Detection; Facial Detection; Intelligent Notification; Intelligent Alarm; Intelligent Search; Cross-camera Tracking

Feature	Specification
Weatherproof Rating	IP66
Operating Temperature	-20°C to 50°C
Dimensions (Camera)	4.72 x 3.78 x 7.54 inches
Zoom Type	Digital Zoom (8x)
Control Method	App (Android, iOS)

WARRANTY INFORMATION

BOTSLAB products are covered by a limited warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the warranty card included in your product packaging or visit the official BOTSLAB website.


CUSTOMER SUPPORT


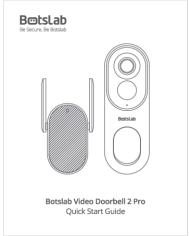

For technical assistance, troubleshooting, or any inquiries regarding your BOTSLAB W510 Wireless Outdoor Security Camera System, please contact BOTSLAB customer support:

- **Online Support:** Visit the official BOTSLAB website for FAQs, support articles, and online chat support.
- **Email Support:** Refer to your product packaging or the BOTSLAB website for the dedicated customer support email address.

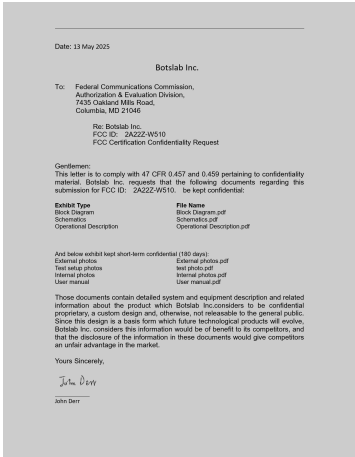
Please have your product model number (W510) and purchase information ready when contacting support to ensure efficient service.

Related Documents

	<p>Botslab Smart Home Security Cameras, Doorbells, and Dash Cams</p> <p>Explore Botslab's comprehensive range of AI-powered smart home security solutions, including 4K PT cameras, video doorbells, dash cams, and kids' smartwatches. Discover advanced features like AI detection, solar power, and seamless connectivity for enhanced safety and convenience.</p>
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	<p>Botslab G980H-N529-1 Dash Cam: Safety, Compliance, and Warranty Information</p> <p>This document provides essential safety, personal data security, battery warnings, and warranty service policies for the Botslab G980H-N529-1 dash cam. It includes EU regulatory compliance information, manufacturer details, and operating specifications, presented in multiple languages.</p>
	<p>Botslab Video Doorbell 2 Pro Quick Start Guide Setup and Installation</p> <p>Get started with your Botslab Video Doorbell 2 Pro. This quick start guide provides step-by-step instructions for installation, network connection, and setup.</p>
	<p>Botslab Video Doorbell 2 Pro R811 Product Introduction</p> <p>A comprehensive product introduction for the Botslab Video Doorbell 2 Pro R811, detailing its features, specifications, installation, and usage.</p>

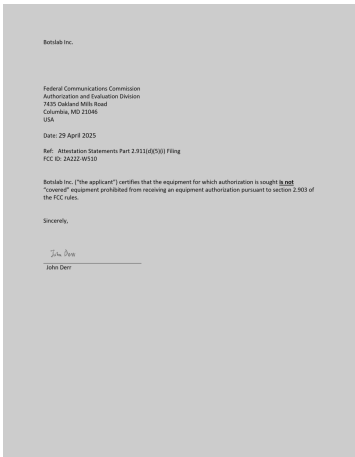
Documents - BOTSLAB – W510



[pdf] Confidentiality Request Letter

Kenneth Young Wu Xuewen Confidentiality Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510

Date: 13 May 2025 Botslab Inc. To: Federal Communications Commission, Authorization Evaluation Division, 7435 Oakland Mills Road, Columbia, MD 21046 Re: Botslab Inc. FCC ID: 2A22Z-**W510** FCC Certification Confidentiality Request
Gentlemen: This letter is to comply with 47 CFR 0.457 and 0.459 pertai...
lang:en score:34 filesize: 83.43 K page_count: 1 document date: 2025-05-13



[pdf]

APPLICANT S LETTERHEAD Sid Sanders Attestation Statements Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510
Botslab Inc. Federal Communications Commission Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, MD 21046 USA Date: 29 April 2025 Ref: Attestation Statements Part 2.911 d 5 i Filing FCC ID: 2A22Z-**W510** Botslab Inc. the applicant certifies that the equipment for which auth...
lang:en score:33 filesize: 415.77 K page_count: 2 document date: 2025-04-29



[pdf] Agent Authorization

Date Arcelia Maldonado Authorization Letter Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510
Date: 29 April 2025 Botslab Inc. To: Federal Communications Commission,
Authorization Evaluation ... solely in matters relating to the application for an FCC
equipment authorization for FCC ID: 2A22Z-**W510** including the signing of documents
in connection with this Application. Necessary acts carried ...
lang:en score:33 filesize: 410.16 K page_count: 1 document date: 2025-04-29



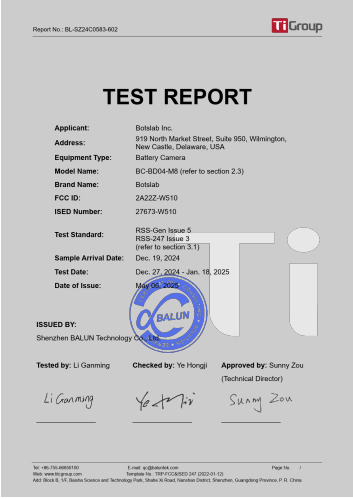
[pdf] Agent Authorization

DW8 US Agent Letter Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510
UNITED STATES DESIGNATED AGENT LETTER TO: Federal Communication
Commission Equipment Authorization ... 63600505 Email: Certificate botslab.com
FRN: 0031326077 ATTN: Director of Certification: 2A22Z-**W510** We, Botslab Inc.
understand and acknowledge the applicants consent and the designated agent...
lang:en score:33 filesize: 120.72 K page_count: 1 document date: 2025-04-30



[pdf] Test Report SAR Rating

User RF Exposure Info Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510
Report No.: BL-SZ24C0583-701 TEST REPORT Applicant: Address: Equipment
Type: Model Name: Brand Nam ... ilmington, New Castle, Delaware, USA Battery
Camera BC-BD04-M8 refer to section 2.3 Botslab 2A22Z-**W510** 47 CFR Part 2.1091
KDB 447498 D04 v01 Dec. 19, 2024 Dec. 27, 2024 - Jan. 18, 2025 May 06, 2025 ...
lang:en score:32 filesize: 411.31 K page_count: 10 document date: 2025-05-07



[pdf] Test Report

DELL Test Report BLE Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510
Report No.: BL-SZ24C0583-602 TEST REPORT Applicant: Address: Equipment
Type: Model Name: Brand Nam ... ilmington, New Castle, Delaware, USA Battery
Camera BC-BD04-M8 refer to section 2.3 Botslab 2A22Z-**W510** 27673-**W510** 47 CFR
Part 15 Subpart C RSS-Gen Issue 5 RSS-247 Issue 3 refer to section 3.1 Dec....
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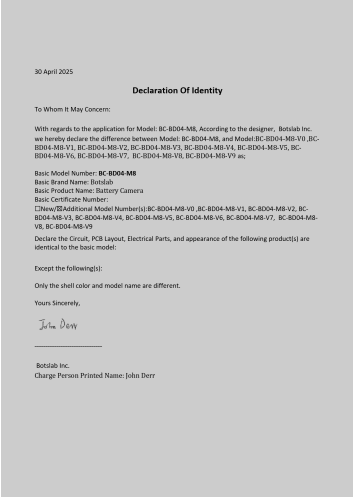


[\[pdf\]](#) Declaration of Conformity

Declaration of Authorization hbreevoort Letter Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510

RF_160, Issue 04 Botslab Inc. Declaration of Authorization We Name: Address: City: Country: Botslab Inc. 919 North Market Street, Suite 950, Wilmington, New Castle Delaware USA Declare that: Name Representative of agent: Wu xuewen Agent Company name: Shenzhen BALUN Technology Co., Ltd Ad...

lang:de **score:25** filesize: 214.72 K page_count: 1 document date: 2025-04-29

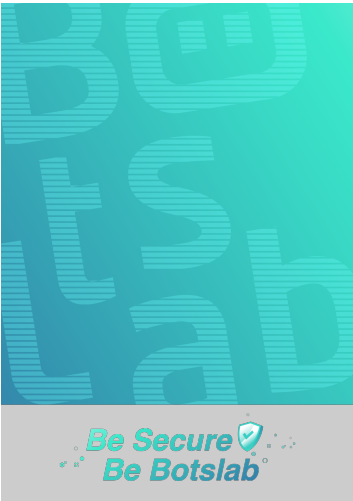


[\[pdf\]](#) Declaration of Conformity

Xu Yan Declaration of identity Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510

30 April 2025 To Whom It May Concern: Declaration Of Identity With regards to the application for Model: BC-BD04-M8, According to the designer, Botslab Inc. we hereby declare the difference between Model: BC-BD04-M8, and Model:BC-BD04-M8-V0 ,BCBD04-M8-V1, BC-BD04-M8-V2, BC-BD04-M8-V3, BC-BD04-M8-V...

lang:en **score:25** filesize: 106.49 K page_count: 1 document date: 2025-04-30



[Botslab Smart Home Security Cameras, Doorbells, and Dash Cams](#)

Explore Botslab's comprehensive range of AI-powered smart home security solutions, including 4K PT cameras, video doorbells, dash cams, and kids' smartwatches. Discover advanced features like AI detection, solar power, and seamless connectivity for enhanced safety and convenience.

lang:en **score:23** filesize: 10.15 M page_count: 17 document date: 2024-12-25

Report No.: BL-23C03053-001

TJ Group

TEST REPORT

Applicant: Botislab Inc.
Address: 919 North Market Street, Suite 950, Wilmington,
 New Castle, Delaware, USA
Equipment Type: Battery Camera
Model Name: BC-B004-0A (refer to section 2.3)
Brand Name: Botislab
FCC ID: 2A322-9510
ISED Number: 27673-9510

Test Standard: RSS-02n Issue 5
 RSS-247 Issue 3
 (Refer to section 3.1)
Sample Arrival Date: Dec. 19, 2024
Test Date: Dec. 27, 2024 ~ Jan. 16, 2025
Date of Issue: March 05, 2025

ISSUED BY:

Shenzhen BALUM Technology Co., Ltd.

Tested by: Li Ganning

Li Ganning

Checked by: Ye Hongli

Ye Hongli

Approved by: Sunny Zou

(Technical Director)

Sunny Zou

Tel: +86 (0)20-88020012
 Web: www.tjgroup.com.cn

E-mail: wj@tjgroup.com
 Registration No.: 91440301505020472022010123


Page 16 of 17

Attest: Aili S. B. of Quality Control and Technology Dept. of Shenzhen Tianjin Group Co., Ltd. Shenzhen, Guangdong Province, P. R. China.

[\[pdf\]](#) Test Report

DELL Test Report WLAN Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510

Report No.: BL-SZ24C0583-601 TEST REPORT Applicant: Address: Equipment
Type: Model Name: Brand Nam ... ilmington, New Castle, Delaware, USA Battery
Camera BC-BD04-M8 refer to section 2.3 Botslab 2A22Z-**W510** 27673-**W510** 47 CFR
Part 15 Subpart C RSS-Gen Issue 5 RSS-247 Issue 3 refer to section 3.1 Dec....
lang:en **score:23** filesize: 4.92 M page_count: 95 document date: 2025-05-07



Shenzhen Yusheng Communication Equipment Co., LTD

W510 Project antenna specification

Customer name: 360

Customer name: W510

Product name: W510-FPC+ coaxial line welding

Product specification: WiFi(2.4G)

Material code: _____

Change Content Cv:

order number	edition	state	Start and end date	person	page	remarks
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	prinrips	prinrips				

The Supplier acknowledges the signature list:

Responsible person / date	QC/ date	Review / Date	Approval / Date
MD			
RZ			

The Demander acknowledges the signature (please send it back after confirmation):

The demander's judgment result <input type="checkbox"/> qualified <input type="checkbox"/> unqualified			
Development & Design Engineer / Date	SQE Engineer / Date	Purchasing Leader / Date	Development Manager approval / date

版本号: W510-FPC 版本: 0.00 日期: 2024.12.20

[\[pdf\]](#) Specifications Catalog

SPECIFICATION FOR APPROVAL Antenna specification Botslab Inc W510 Battery Camera 2A22Z
2A22ZW510 w510

Shenzhen Yusheng Communication Equipment Co., LTD**W510** Project antenna
specification Customer name: 360 Customer name: **W510** Product name: **W510-FPC**
coaxial line welding Product specification: WIFI 2.4G Material code: Change Content
CV: order edition state Start and end person page nu...

lang:en score:22 filesize: 946.7 K page_count: 8 document date: 2024-12-20

[\[pdf\]](#) Label

Jingyong LIU ID Label Location Info Botslab Inc W510 Battery Camera 2A22Z 2A22ZW510 w510
Label: Location ...

lang:en score:13 filesize: 121.59 K page_count: 1 document date: 2025-04-28