

Defender IP10MDCB2-64

Defender AI Powered Guard Pro 3K Plus Dual Lens PTZ WiFi 6/Bluetooth Security Camera

INSTRUCTION MANUAL

1. Introduction

The Defender AI Powered Guard Pro 3K Plus Dual Lens PTZ WiFi 6/Bluetooth Security Camera offers advanced surveillance capabilities for your home or business. Featuring dual lenses, Pan-Tilt-Zoom functionality, AI-powered human and vehicle detection, WiFi 6 and Bluetooth connectivity, and vibrant color night vision, this camera system provides comprehensive security monitoring. This manual will guide you through the setup, operation, and maintenance of your new security camera.



Image: Two Defender Guard Pro 3K Plus Dual Lens PTZ WiFi 6/Bluetooth Security Cameras, shown with included 64GB SD cards.

2. What's in the Box

Before you begin, please ensure all components are present:

- 2x Defender 3K+ Guard Pro PTZ Dual Lens Cameras with 64GB SD Cards
- 2x Camera Power Supply (10ft)
- 2x Camera Power Extension Cable (25ft)
- 2x Ethernet Waterproof Cable Shield
- 2x Camera Mounting Hardware (screws and wall anchors)
- 2x Drilling Template
- Window Warning Sticker (5x3in)
- Warranty Registration Insert
- Quick Start Guide

WHAT'S INCLUDED



2x Defender 3K+ Guard Pro PTZ
Dual Lens Cameras
with 64GB SD Cards



2x Camera Power Supply
(10ft)



2x Camera Power Extension
Cable (25ft)



2x Ethernet Waterproof Cable Shield



2x Camera Mounting Hardware



2x Drilling Template



Window Warning
Sticker (5x3in)



Warranty Registration
Insert



Quick Start Guide

Free Lifetime Customer Support

Image: All components included in the product package.

3. Setup

3.1 SD Card Installation

The camera comes with 64GB SD cards for local storage. To install, locate the SD card slot on the camera body, typically under a protective cover. Insert the SD card firmly until it clicks into place. Ensure the cover is securely re-fastened to maintain weather resistance.

Your browser does not support the video tag.

Video: Demonstrates the installation of the SD card into the camera. This step is crucial for enabling local video recording and storage.

3.2 Physical Installation

Choose a suitable location for your camera, ensuring it has a clear view of the area you wish to monitor and is within reach of a power outlet. The camera is designed for outdoor use with an IP66 weather rating. Use the provided drilling template and mounting hardware to securely attach the camera to a wall or ceiling.



Image: Illustrates the physical installation of the camera on an exterior wall.

3.3 Power Connection

Connect the camera to the power supply using the provided 10ft cable and, if needed, the 25ft extension cable. Ensure the connection is secure and protected from the elements, especially if installed outdoors.

3.4 App Installation and Pairing

Download the free 'Guard' app from your smartphone's app store. Follow the in-app instructions to create an account and add your camera. The camera supports fast Bluetooth pairing and advanced WiFi 6 connectivity for a seamless setup experience. Ensure your phone, modem, and camera are in close proximity during the initial pairing process.

CONNECT IN SECONDS!

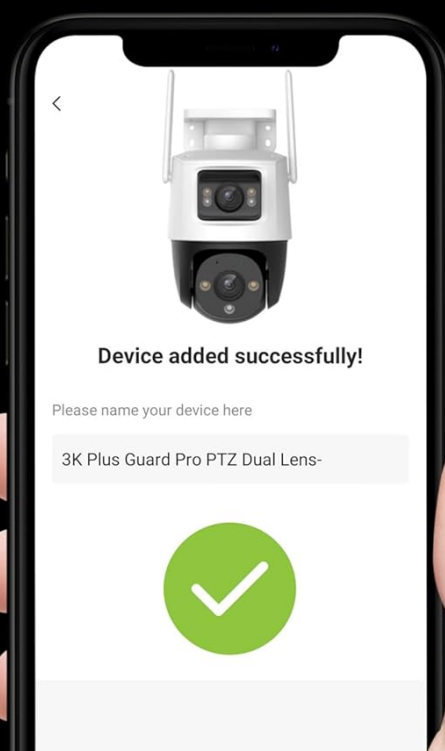


Image: Shows the successful pairing of the camera with the mobile app via WiFi 6 and Bluetooth.

4. Operating Your Camera

4.1 Dual Lens and PTZ Control

The Guard Pro features a dual-lens system, providing both a fixed wide-angle view and a Pan-Tilt-Zoom (PTZ) lens for detailed monitoring. Use the Guard app to remotely control the PTZ lens, allowing you to pan 355 degrees and tilt 90 degrees to cover a wide area. The app interface provides intuitive controls for navigation.

DUAL LENS: 1 CAMERA, TWO VIEWS!

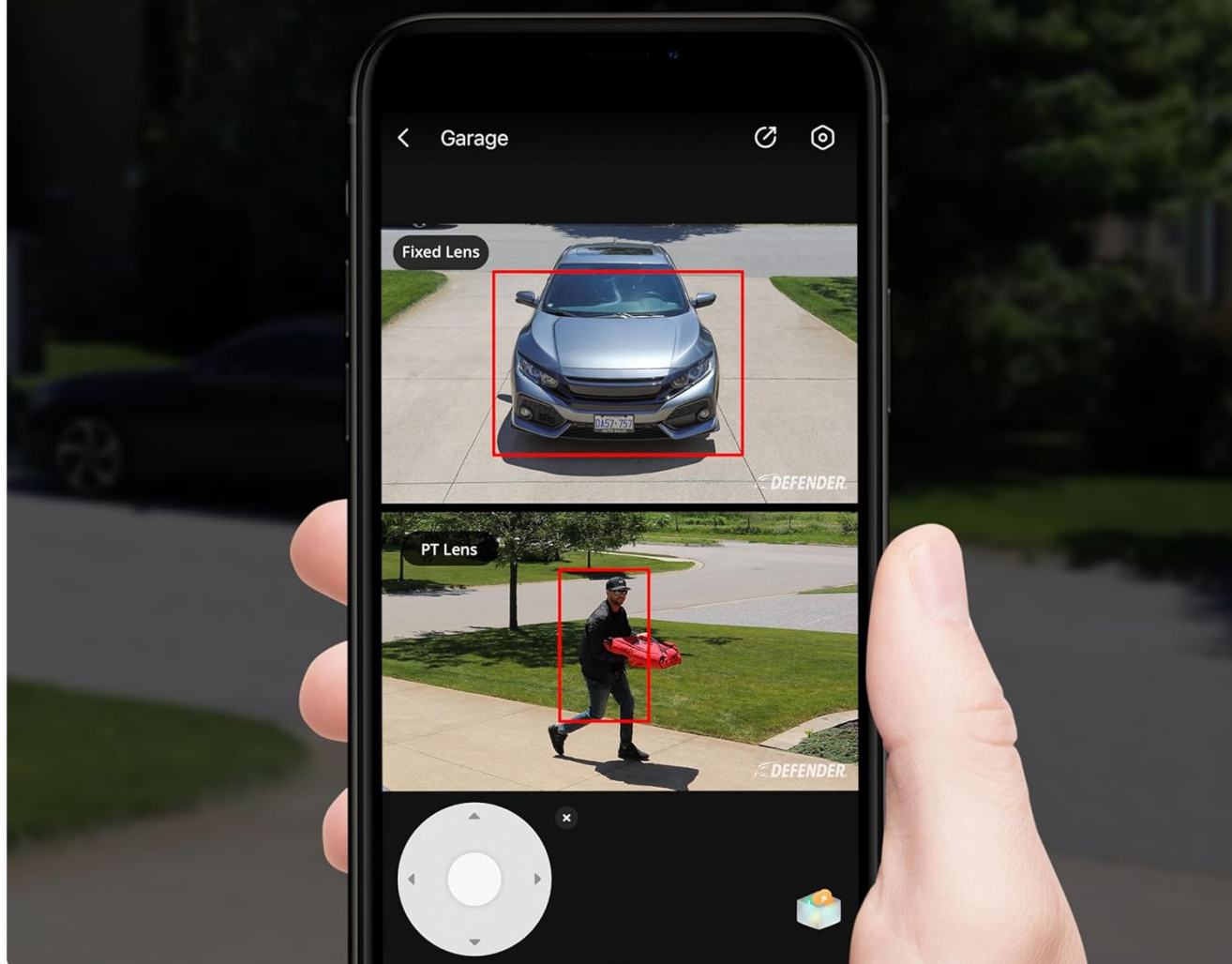


Image: Demonstrates the dual lens functionality, showing both fixed and PTZ views simultaneously on the app.

4.2 Smart AI Tracking

Leverage the camera's advanced AI technology for precise human and vehicle detection and tracking. When motion is detected, the camera can automatically follow the subject, providing continuous surveillance and real-time alerts to your mobile device.

SMART AI AUTO TRACKING, 355° PAN & 90° TILT



DETECT & FOLLOW HUMAN



DETECT & FOLLOW VEHICLE



Image: Illustrates the AI auto-tracking feature, showing the camera detecting and following human and vehicle movement.

4.3 Vibrant Color Night Vision

The camera is equipped with laser-sharp image sensors and spotlights that enable vibrant color night vision up to 100 feet, even in low-light conditions. This provides clear, detailed visuals around the clock, enhancing your security.

COLOR NIGHT VISION, ILLUMINATE THE SCENE



Image: Demonstrates the camera's color night vision capability, showing a clear, illuminated view in darkness.

4.4 Two-Way Audio

Communicate directly through the camera using the built-in microphone and speaker. This two-way audio feature allows you to speak to visitors or deter intruders from your mobile app, providing an additional layer of security.

SPEAK AND LISTEN WITH FLUID TWO-WAY TALK

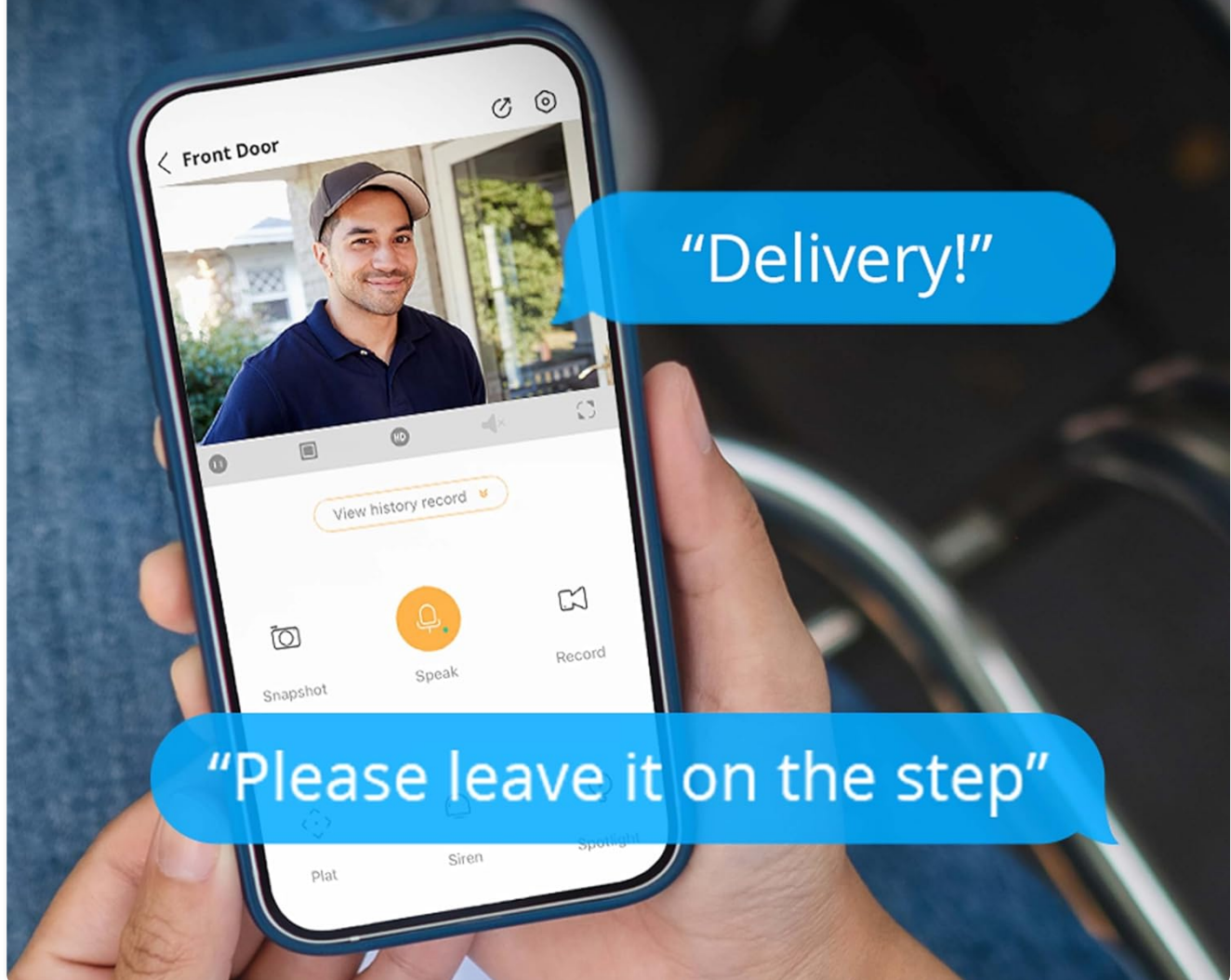


Image: Illustrates the two-way audio feature, showing a conversation between a user and a delivery person via the camera.

4.5 Alerts and Sirens

Configure motion detection notifications and activate the built-in siren directly from the Guard app. The siren can be used to deter unwanted visitors or alert neighbors to suspicious activity.

Your browser does not support the video tag.

Video: Demonstrates the camera's siren feature, showing a prompt to activate the loud siren to deter unwanted visitors.

4.6 Viewing and Playback

Access your camera's live feed and recorded footage anytime, anywhere through the Guard app. You can watch your camera feed, receive instant notifications, save and share your footage, and manage multiple devices. The app also allows you to schedule notifications to suit your lifestyle.

TOP-RATED GUARD APP

Security at your fingertips. Access your footage anytime, anywhere & easily share your recordings.

**Watch Your
Camera Feed**



**Receive Instant
Notifications**



**Watch, Save and
Share Your Footage**



**View and Manage
Multiple Devices
Together**



**Schedule Notifications
and Recordings to
Suit Your Lifestyle**



Image: Overview of the Guard app's features for viewing, managing, and scheduling.

5. Maintenance

5.1 Cleaning

To ensure optimal performance, periodically clean the camera lens and housing with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the camera's surface or lens.

5.2 Weather Resistance

The camera boasts an IP66 weather-resistant rating, designed to withstand various outdoor conditions, including rain and extreme temperatures (-30°C to 60°C / -22°F to 140°F). Ensure all cable connections are properly sealed using the provided waterproof shields to maintain this protection.

DURABLE IP66 WEATHER-RATED CAMERA



Image: Shows the camera's IP66 weather resistance, capable of operating in various temperatures and rain.

5.3 Firmware Updates

Regularly check the Guard app for available firmware updates. Keeping your camera's firmware up-to-date ensures you have the latest features, security enhancements, and bug fixes for optimal performance.

6. Troubleshooting

6.1 Connectivity Issues

- **Camera not connecting to Wi-Fi:** Ensure your Wi-Fi network is 2.4 GHz, as the camera primarily uses this frequency. Verify the Wi-Fi password is correct. Try restarting your router and the camera.
- **Camera goes offline:** If the internet connection drops, the camera may not automatically reconnect. Try power cycling the camera. Ensure a stable Wi-Fi signal at the camera's location.

6.2 Image Quality Problems

- **Blurry or unclear image:** Clean the camera lens with a soft cloth. Ensure there are no obstructions in the camera's field of view.
- **Poor night vision:** Check if the spotlights or IR LEDs are obstructed. Ensure there is no strong light source directly facing the camera at night, which can interfere with night vision.

6.3 Motion Detection and Alerts

- **False alerts:** Adjust the motion detection sensitivity settings in the Guard app. Consider setting detection zones to exclude areas with frequent irrelevant motion (e.g., moving trees, busy roads).
- **No alerts:** Ensure notifications are enabled in both the Guard app and your phone's system settings. Check the camera's internet connection.

6.4 PTZ Noise

- **Grinding sound during PTZ movement:** While some operational noise is normal for PTZ mechanisms, excessive grinding might indicate an issue. Ensure the camera is securely mounted and not vibrating against its mounting surface. If the issue persists, contact customer support.

7. Specifications

Feature	Detail
Model Name	3K Guard Pro Dual Lens PLUS PTZ
Model Number	IP10MDCB2-64
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	3K (2880 x 1620)
Effective Still Resolution	8 MP
Viewing Angle	360 Degrees (PTZ capability)
Night Vision Range	100 Feet
Wireless Communication Technology	WIFI 6, Bluetooth
Connectivity Protocol	802.11b/g/n/ax
Power Source	Corded Electric (12 Volts, 12 watts)
Storage Type	Micro SD (up to 256 GB supported)
Audio Visual Recording Capabilities	Two-Way Audio (Built-in Mic & Speaker)
Water Resistance Level	IP66
Operating Temperature Range	-30°C to 60°C (-22°F to 140°F)

Feature	Detail
Dimensions (L x W x H)	5.22 x 5.07 x 4.33 inches
Item Weight	13.1 ounces

8. Warranty and Support

8.1 Warranty Information

Defender offers protection plans for your security camera. You may be eligible to purchase a 2-Year or 3-Year Protection Plan. For detailed warranty information and to activate your warranty, please visit the official Defender website:

[Activate Your Warranty Here](#)



Image: Warranty activation information, including a QR code and website link.

8.2 Customer Support

Defender provides free lifetime customer support for your product. If you encounter any issues or have questions not covered in this manual, please refer to the contact information provided in your Quick Start Guide or visit the Defender support website.

Empowerment Technologies Inc
Agent Authorization

Company: Empowerment Technologies Inc
Address: 590 York Rd, Unit 2 Niagara-on-the-Lake L0S 1J0 Canada
Product Name: DEFENDER
Model Number(s): IP10MDCB1;IP10MDCB2;IP10MDCB3;IP10MDCB4;IP10MDCB1-64;IP10MDCB2-64;IP10MDCB3-64;IP10MDCB4-64; IP10MDCB1-32; IP10MDCB1-128
Product Description: DEFENDER

We authorize MCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA, to act on our behalf on all matters concerning the certification of above named equipment.

We declare that MCOM Labs Inc. is allowed to forward all information related to the approval and verification of equipment to the regulatory agencies as required and to discuss any issues concerning the approval application. Any and all acts covered by MCOM Labs on our behalf shall have the same effect as acts of our own.

Signature: [Signature] Date: 6/26/2024
Name: Rajesh Jain
Title: CEO and Owner
Company: Empowerment Technologies Inc.

[pdf] Agent Authorization

PLEASE PRINT ON COMPANY LETTERHEAD MiCOM Labs Inc QMS Agent Authorization

Empowerment Technologies IP10MDCB1 DEFENDER 2AV6B 2AV6BIP10MDCB1 ip10mdcb1

Docusign Envelope ID: B6D35F85-C340-49C3-BFCD-7E99AD158D93

Empowerment Technologies Inc Agent Autho ... Canada Product Name: DEFENDER

Model Number s :

IP10MDCB1;IP10MDCB2;IP10MDCB3;IP10MDCB4;IP10MDCB164;**IP10MDCB2-**

64;IP10MDCB3-64;IP10MDCB4-64, IP10MDCB1-32, IP10MDCB1-128 Product

Description: DEFENDER W...

lang:en score:21 filesize: 159.03 K page_count: 1 document date: 2024-07-22

Empowerment Technologies Inc
Certification – Applicant (Covered List)

Company name: Empowerment Technologies Inc
Address: 590 York Rd, Unit 2 Niagara-on-the-Lake L0S 1J0 Canada
Product Name: DEFENDER
FCC ID: 2AV6B-IP10MDCB1
Model(s): IP10MDCB1;IP10MDCB2;IP10MDCB3;IP10MDCB4;IP10MDCB1-64;IP10MDCB2-64;IP10MDCB3-64;IP10MDCB4-64; IP10MDCB1-32; IP10MDCB1-128

2.911(d)(5)(ii) Applicant Wiring
Via [Empowerment Technologies Inc] ("the applicant") certify that, as of the date of the filing of the application, the applicant is **identified as not identified** ("not identified") on the "Covered List" ("CL"), established pursuant to § 1.55002 of this chapter, as an entity producing covered communications equipment.

Yours sincerely,
[Signature]
Name: Rajesh Jain Date: 6/26/2024

Title and Company name: CEO and Owner / Empowerment Technologies Inc

NOTE 1
Device option not applicable to this application.

NOTE 2
"Covered List" is the List of Equipment and Services Covered By Section 2 of The Secure Networks Act, available at <https://www.csis.gc.ca/nas/en/secure-networks/act/>

References:
1) 200-446 D01 Covered Equipment d01
<https://www.csis.gc.ca/nas/en/secure-networks/act/200-446-d01-covered-equipment-d01/>
2) Federal Register document 2022-20099 dated June 16, 2022
<https://www.federalregister.gov/documents/2022/06/16/2022-11541-secure-networks-act-200-446-d01-covered-equipment-d01>
<https://www.csis.gc.ca/nas/en/secure-networks/act/200-446-d01-covered-equipment-d01/>

2.911 (d)(5)(ii) Applicant Certification v. 2

[pdf]

del990 Certification Applicant Empowerment Technologies Inc IP10MDCB1 DEFENDER 2AV6B

2AV6BIP10MDCB1 ip10mdcb1

Docusign Envelope ID: B6D35F85-C340-49C3-BFCD-7E99AD158D93

Empowerment Technologies Inc Section 2.9 ... ame: DEFENDER FCC ID: 2AV6B-

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64;IP10 MDCB3-64;IP10MDCB4-64, IP10MDCB1-32, IP10MDCB1-128 2.911 d 5 ii

Applicant filin...

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Empowerment Technologies Inc
Certification – Equipment Type

Company name: Empowerment Technologies Inc
Address: 590 York Rd, Unit 2 Niagara-on-the-Lake L0S 1J0 Canada
Product Name: DEFENDER
FCC ID: 2AV6B-IP10MDCB1
Model(s): IP10MDCB1;IP10MDCB2;IP10MDCB3;IP10MDCB4;IP10MDCB1-64;IP10MDCB2-64;IP10MDCB3-64;IP10MDCB4-64; IP10MDCB1-32; IP10MDCB1-128

2.911(d)(5)(ii) Equipment Type
Via [Empowerment Technologies Inc] ("the applicant") certify that the equipment for which authorization is sought through certification is not:
• Prohibited from receiving an equipment authorization pursuant to § 2.903 of the FCC rules.
• Identified as an equipment type in the "Covered List" ("CL").

Yours sincerely,
[Signature]
Name: Rajesh Jain Date: 6/26/2024

Title and Company name: CEO and Owner / Empowerment Technologies Inc

NOTE 1
"Covered List" is the List of Equipment and Services Covered By Section 2 of The Secure Networks Act, available at <https://www.csis.gc.ca/nas/en/secure-networks/act/>

References:
1) 200-446 D01 Covered Equipment d01
<https://www.csis.gc.ca/nas/en/secure-networks/act/200-446-d01-covered-equipment-d01/>
2) Federal Register document 2022-20099 dated June 16, 2022
<https://www.federalregister.gov/documents/2022/06/16/2022-11541-secure-networks-act-200-446-d01-covered-equipment-d01>
<https://www.csis.gc.ca/nas/en/secure-networks/act/200-446-d01-covered-equipment-d01/>

2.911 (d)(5)(ii) Equipment Type Certification v. 2

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del990 Certification Equipment Type Empowerment Technologies Inc IP10MDCB1 DEFENDER 2AV6B

2AV6BIP10MDCB1 ip10mdcb1

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Empowerment Technologies Inc Section 2.9 ... ame: DEFENDER FCC ID: 2AV6B-

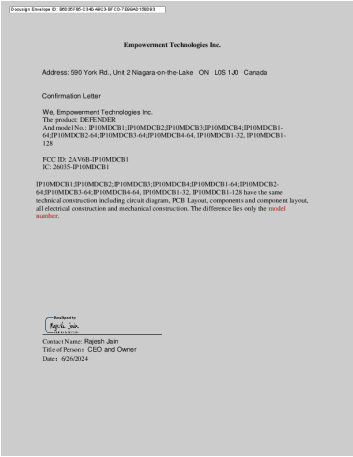
IP10MDCB1 Model s

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64;IP10 MDCB3-64;IP10MDCB4-64, IP10MDCB1-32, IP10MDCB1-128 2.911 d 5 i

Equipment Type ...

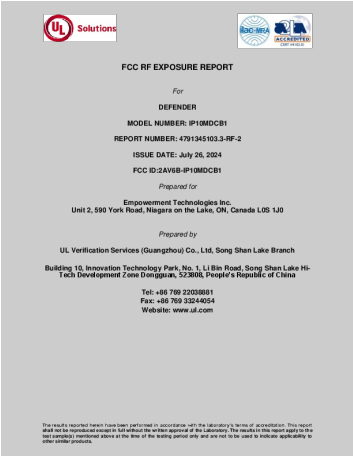
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[pdf] Declaration of Conformity Diagram

Liu Susan Declaration letter IP10MDCB1 doc ULCC30 497 2061949 Empowerment Technologies Inc DEFENDER 2AV6B 2AV6BIP10MDCB1 ip10mdcb1

Docusign Envelope ID: B6D35F85-C340-49C3-BFCD-7E99AD158D93
Empowerment Technologies Inc. Address: 590 York Rd., Unit 2 Niagara-on-the-Lake ON L0S 1J0 Canada Confirmation Letter We, Empowerment Technologies Inc. The product: DEFENDER And model No.:
IP10MDCB1;IP10MDCB2;IP10MDCB3;IP10MDCB4;IP10MDCB164;...
lang:en score:21 filesize: 184.99 K page_count: 1 document date: 2024-07-22



[pdf] SAR Rating

Zhang Kebo MPE Empowerment Technologies Inc IP10MDCB1 DEFENDER 2AV6B 2AV6BIP10MDCB1 ip10mdcb1
FCC RF EXPOSURE REPORT For DEFENDER MODEL NUMBER: IP10MDCB1
REPORT NUMBER: 4791345103.3-RF-2 ISSUE D ... le Status: Sample ID: Date of
Tested: DEFENDER IP10MDCB1
IP10MDCB2,IP10MDCB3,IP10MDCB4,IP10MDCB164,IP10MDCB2-64,IP10MDCB3-
64,IP10MDCB4-64 IP10MDCB1-32IP10MDCB1-128 June 6, 2024 Normal 7289960
June 28...
lang:en score:19 filesize: 322.86 K page_count: 8 document date: 2024-07-30



[pdf] Test Report

Mike Heckrotte Test report Empowerment Technologies Inc IP10MDCB1 DEFENDER 2AV6B 2AV6BIP10MDCB1 ip10mdcb1
CFR 47 FCC PART 15 SUBPART C ISED RSS-247 Issue 3 TEST REPORT For DEFENDER MODEL NUMBER: IP10MDCB1 R ... le Status: Sample ID: Date of
Tested: DEFENDER IP10MDCB1
IP10MDCB2,IP10MDCB3,IP10MDCB4,IP10MDCB164,IP10MDCB2-64,IP10MDCB3-
64,IP10MDCB4-64 IP10MDCB1-32IP10MDCB1-128 June 6, 2024 Normal 7289960
June 28...
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