DEFEND

BY TACTACAM

DEFEND CAM

INSTRUCTION MANUAL

TACTACAM.COM

DOWNLOAD THE DEFEND APP

DEFEND BY TACTACAM

VISIT YOUR APP STORE TO DOWNLOAD

GET IT ON Google Play

Available on the App Store

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INTRODUCTION

WHAT'S IN THE BOX

- (1) Security Camera
- (1) Instruction Manual
- (1) Mount

WHAT YOU WILL NEED

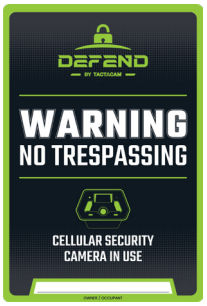
- Power Drill or Mounting Strap
- (12) AA Batteries Required - Lithium Batteries recommended in colder temperatures
- Optional Full-size SD card - Class 10, U3, 16GB-32GB

RECOMMENDED CAMERA ACCESSORIES (NOT INCLUDED)

SD Card

Solar Panel

Rechargeable Battery



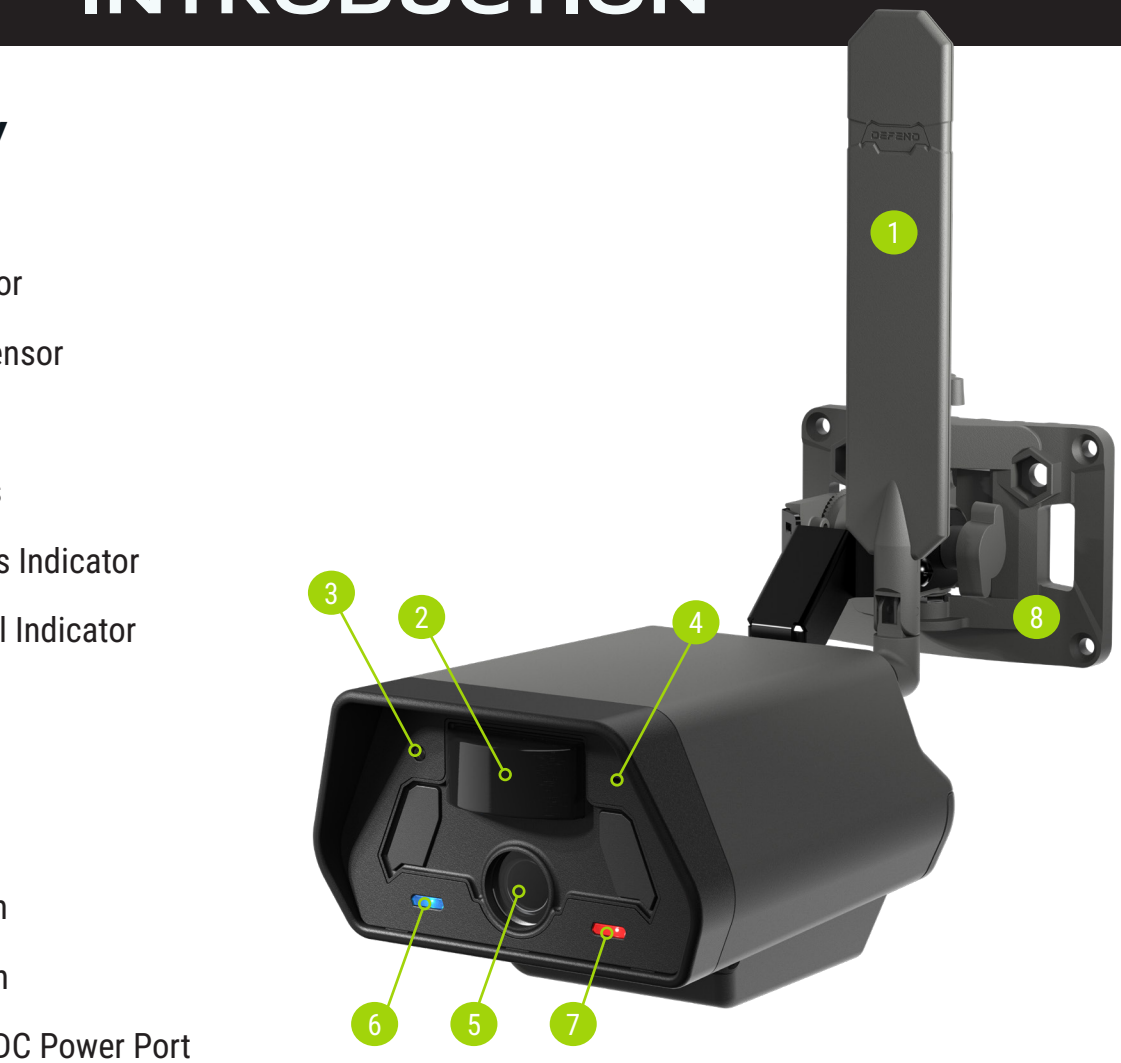
No Trespassing Sign

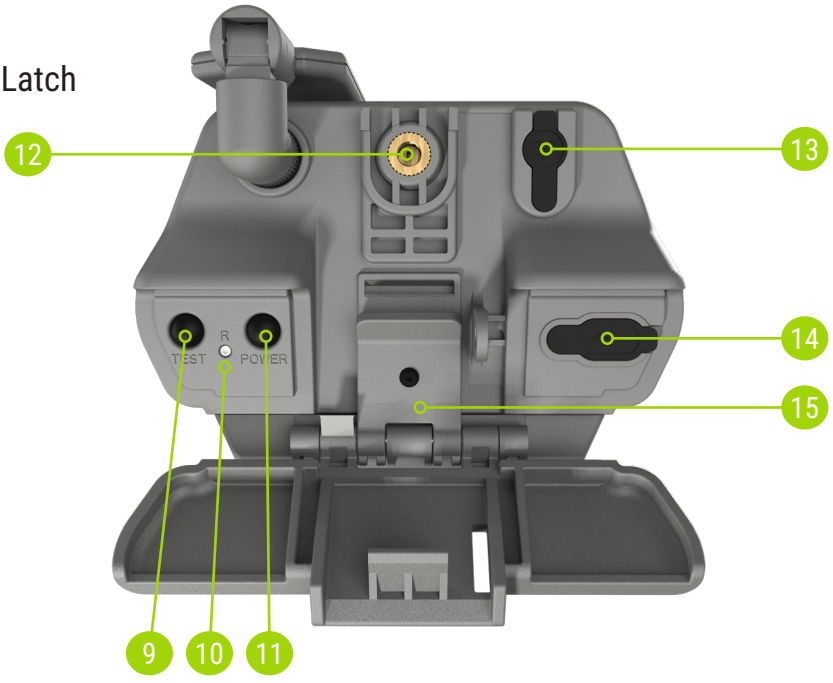
VIEW AND PURCHASE ALL ACCESSORIES AT TACTACAM.COM

INTRODUCTION

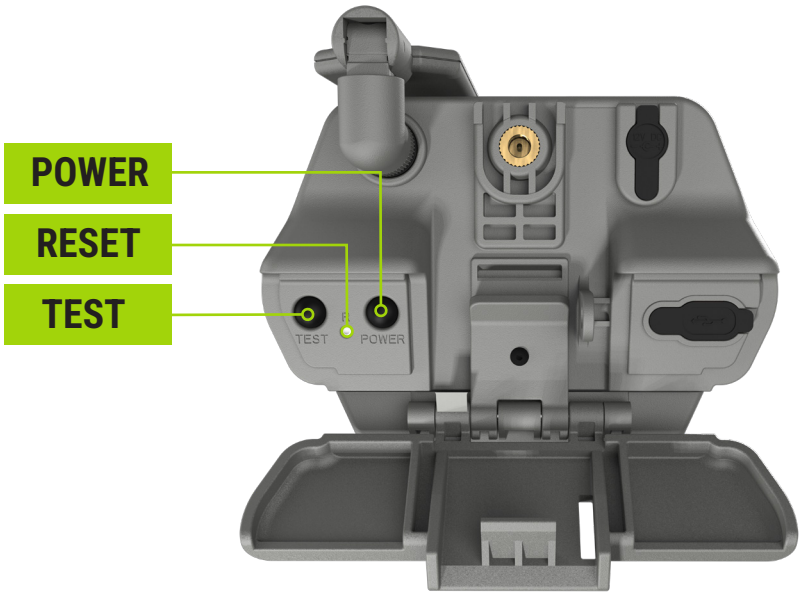
OVERVIEW

1. Antenna
2. Motion Sensor
3. Day/Night Sensor
4. Microphone
5. Camera Lens
6. Device Status Indicator
7. Device Signal Indicator
8. Mount
9. Test Button
10. Reset Button
11. Power Button
12. Mount Attach
13. Solar Panel/DC Power Port
14. USB-C Port
15. Battery Door Latch





BUTTONS



CAMERA CONTROLS		
Key Name	**When In**	**Key Function**
Power Key	Off Mode	Press 1s to power on device to setup mode
	Work Mode	Press 1s to enter setup mode
	Setup Mode	Press 1s to power off device
Test Button	Setup Mode	Short press 1s to capture picture and send to server
	Work Mode	Short press 1s to boot device and capture picture and send to server
Reset Button	Setup Mode	Long press 10s to perform factory reset

***Upon startup, the device will enter Setup Mode for two minutes and automatically enter Work Mode after.**

LIGHTS

INDICATOR GUIDE			
LED NAME	COLOR	INDICATION	DESCRIPTION
STATUS	GREEN	POWER ON	When first powered on, the GREEN LED turns on before changing BLUE
		LOW BATTERY	When the battery is low, the GREEN LED will stay on in WORK mode. In SETUP mode, both the GREEN and BLUE LED's will be on.
		POWER OFF	The GREEN LED blinks 3 times as the device powers of from SETUP mode.
	BLUE	SETUP MODE	The BLUE LED indicates SETUP mode status. After going into WORK mode, the BLUE LED will turn off.
SIGNAL	RED	CELLULAR CONNECTION	Upon connection to the cellular network while in SETUP mode, the RED LED will blink at 1-sec intervals. It will turn off in WORK mode.
	GREEN	BLUETOOTH STATUS	Brief GREEN LED when using Bluetooth to achieve Wi-Fi pairing.
	BLUE	Wi-Fi STATUS	BLUE LED blinks with 1s intervals when device Wi-Fi is connected to phone.

SETTING UP THE CAMERA

1. **Ensure the Pre-Installed Antenna is Snug and Secure.**

2. **Optional: Install a Class 10 U3 SD Card Up to 32GB.**

3. **Install 12 AA Batteries or Optional Power Accessories.**
   • Open the battery compartment. Ensure AA batteries are oriented correctly in the battery trays. If using a Rechargeable Battery for Defend Cam (sold separately), fully charge it before installation.

NETWORK SELECTION

Automatic Network Selection

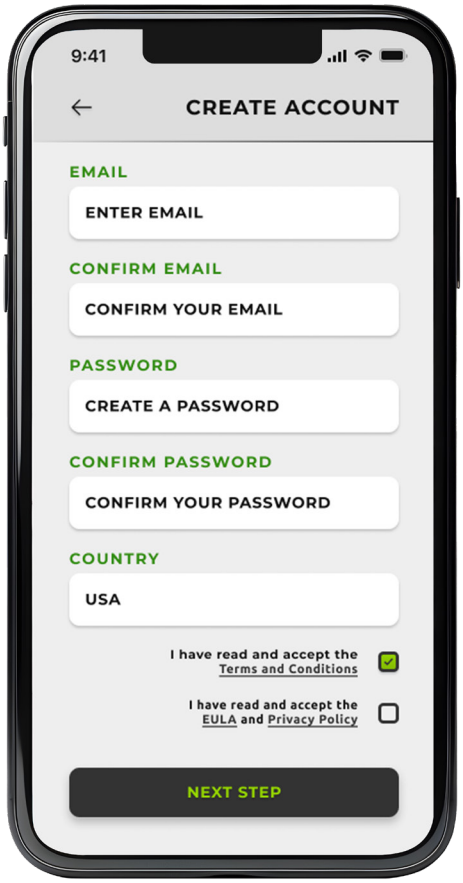
Pre-installed SIM Card: The Defend cam is equipped with a pre-installed SIM card inside the camera. Upon activation, the camera automatically searches to determine the strongest network signal between multiple carriers, ensuring reliable service in diverse environments.

Auto-Carrier Selection: Every time the camera is powered on, it undergoes Auto-Carrier Selection to ensure it connects to the optimal network available at that moment.

SETTING UP THE CAMERA

SETTING UP YOUR ACCOUNT

If this is the first Defend camera you will be activating, please create an account through the mobile app or on the Defend Web Portal at **www.defendcellcam.com**. Once the account is created, select a subscription plan to be able to receive images to your app. On Apple devices, you must purchase a plan through the Web Portal. If you already have a Defend account with ACTIVE cameras, you can simply log in to your app and add your new camera.

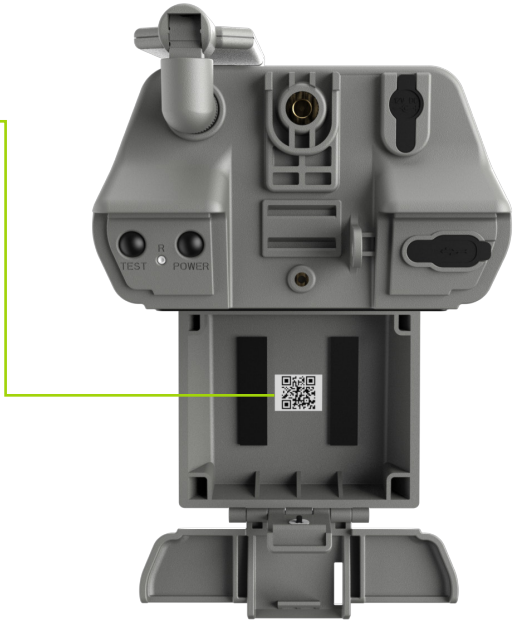


DOWNLOADING THE APP

In your Apple App Store or Google Play Store, download the Defend by Tactacam app and sign in using the same TactaID account email and password you created on the web portal.

ADD CAMERA TO THE APP

1. Once on the Home page, click on the left-side menu icon.
2. From the menu, click the “+ Add a Camera” option.
3. Choose an existing subscription plan and and select your camera model
4. The app will prompt you to scan the QR code located inside the battery door of the camera.
5. Follow the in-app prompts to activate your Defend camera.

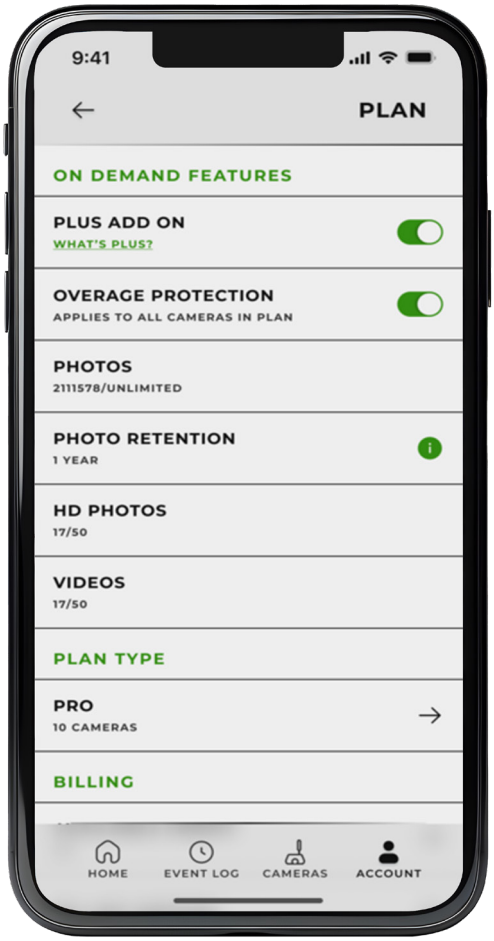


PAIRING YOUR CAMERA TO YOUR PHONE THROUGH WI-FI

You can automatically change and apply the camera settings when your phone is connected to the camera's Wi-Fi. This will not work unless you are next to the camera.

1. Turn Defend to SETUP mode.
2. When the Signal light is blinking blue, it is ready to pair to your phone or tablet.
3. In the app go to the Account page and click "Connect to Defend Wi-Fi".
4. Follow the in-app instructions. You can also manually connect in your phone's Wi-Fi settings, select "Defend" and enter the password (**DEFEND2024**). This Wi-Fi password is case sensitive, no spaces.
5. See preview on phone screen
   a. Red line on preview is point of focus
   b. To send test picture, press "Test" button on camera

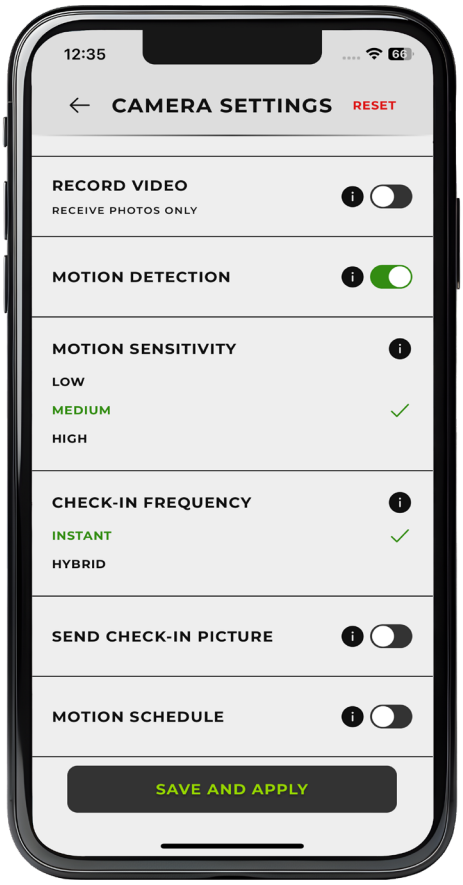
Also available in the app while connected to Wi-Fi:
   a. Instantly apply setting changes from the app
   b. Formatting SD card, which may be necessary if you purchased a non-Tactacam branded SD card.



SETTING UP THE CAMERA

REMOTELY CHANGE THE CAMERA SETTINGS FROM THE APP

From the Cameras page, choose the camera you want to view and select “Camera Settings” from the menu. Make sure to select “Save and Apply” when done to save your changes.



SENDING A TEST PICTURE

1. When the signal is acquired and the camera is in setup mode, there will be a blinking red light on the connectivity light (right light). Then, press the test button on the back and check your Defend app to make sure the photo was sent. This could take a minute to transmit through the network.

SETTINGS / SPECIFICATIONS

FEATURE	SPEC
Image, Video, and Motion Detection	
Camera Mode	Photo only or Photo + Video
Image Resolution	Up to 4k
Video Resolution	Up to 1080p, 30FPS
Video Duration	Up to 30 seconds
Picture Format	.jpg
Video Format	.mp4
Camera Field of View	60 deg.
Motion Detection Distance	Up to 100 ft.
Day/Night Mode	Daytime: Color, Nighttime: B+W
IR Range	Up to 100 ft.
IR Flash	Low-Glow IR LED
Trigger Speed	0.5 Seconds
Storage	
Internal eMMC	8 GB
SD Card (Optional)	Up to 32 GB, Class 10, U3
SD Card Loop	Yes
Controls	
Operating Keys	(2) 1x Power button; 1 x Test Button
Status Indicator	1 LED for Status, 1 LED for Signal
Power	
Battery	12x AA
Rechargeable (Optional)	5200 mAh Li-Ion (sold separately)
External	12 V, 2 A

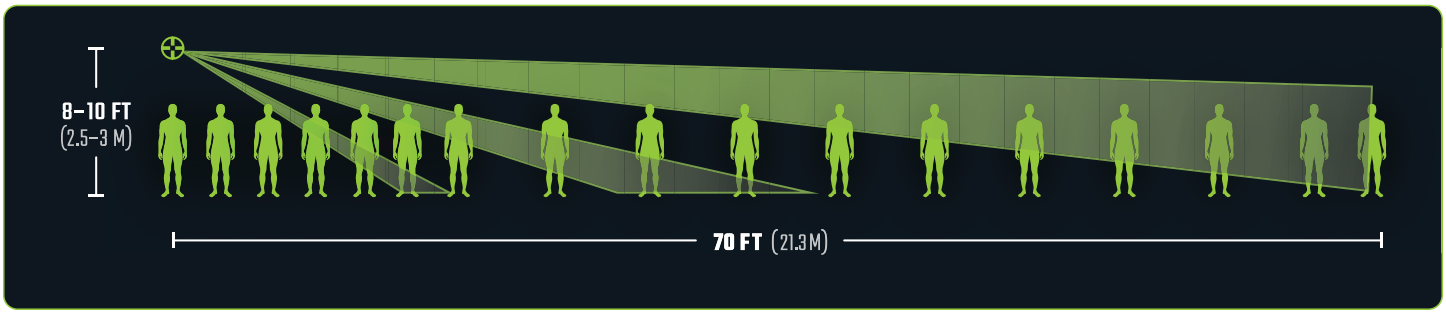
BEST PRACTICES

PROPER CAMERA PLACEMENT

1. Location and placement is critical for optimal camera performance.

2. See image for ideal installation configuration. (See Below)

3. Installation tips:
   a. Optimal installation height ~8-10 feet with slight downward angle (10 degrees)
   b. Avoid placing in direct sunlight when possible
   c. Avoid aiming at active backgrounds (busy streets, moving branches, etc.)
   d. Adjust motion sensitivity setting to best fit your environment



BATTERIES AND CAMERA PERFORMANCE

1. 12x AA name-brand alkaline or lithium batteries are recommended.

2. Lithium will offer the longest battery life, especially in cold weather.

3. If connecting the Tactacam External Solar Panel (sold separately), the AA batteries would act as a backup power source.

TROUBLESHOOTING

CAMERA SENDS PICTURES OF NOTHING

Motion sensors Motion sensors (PIR sensors) are actually heat sensors. They “trigger” when detecting a heat differential across the sensor. This is why on a hot and windy day, people get false triggers. People and animals are not the only objects that will trigger your camera; vegetation and precipitation can act as a moving target as well.

1. Be sure to clear any low hanging tree branches, brush, and weeds from the camera field of view.
2. Motion sensitivity recommendations:
   - Set to High, and decrease sensitivity if you’re getting too many false triggers.

CAMERA STOPS TAKING IMAGES OR WON’T TAKE IMAGES

1. Make sure your batteries have sufficient power and the camera is on.
2. If using a non-Tactacam brand SD card, connect via Wi-Fi and format the SD card.

INTERNAL CONDENSATION ON LENS

The Defend is IP66 rated. This means the camera is water resistant against powerful jets. The only way the Defend Cam can get condensation in or behind the lens is if the antenna is not screwed in all the way, or if there is dirt or debris on the battery door seal. Follow these at home instructions to alleviate this issue if need be:

- Pull the SD card out and let the camera sit open for 3-4 days, in an area where there is circulating air (fan or vent).
- You can also put in a sealed container with rice for 24 hours to draw out the moisture.
- Clean the seal well and tighten your antenna.
- Place back in the field.

LIMITED WARRANTY

HOW LONG DOES THIS COVERAGE LAST?

1. One year from the date of purchase.

WHAT IS COVERED?

1. This limited warranty covers: manufacturer defects in materials and workmanship including but not limited to:
   - Defective buttons
   - Cracked/chipped glass lens
   - Broken SD card or SIM card spring mechanism
   - Broken USB port
2. Covered cameras will either be repaired by a certified technician or replaced.

WHAT IS NOT COVERED?

1. This limited warranty does not cover any damage caused by the owner modifying, attempting to fix, or otherwise altering the product.
2. This limited warranty excludes damage caused by people or animals, including but not limited to: antenna, strap, Fresnel lens, glass lens, or camera housing. If damage is caused to the camera by the owner or animal, contact customer support for repair options.

FCC COMPLIANCE

FEDERAL COMMUNICATIONS COMMISSION - PART 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may note cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

DO NOT RETURN THIS PRODUCT TO YOUR RETAILER

For any warranty issues or questions on how to best watch over your property with Defend:

CALL 218-282-5650

OR

EMAIL SUPPORT@TACTACAM.COM

DEFEND
BY TACTACAM

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