PARD

NV007SP2 4K

Digital Night Vision Device

User Manual

Important Reminder

1. All PARD products are exclusively designed for civilian use and strictly prohibited for any military purposes.

2. All PARD products are not authorized for export to, including but not limited to Russia, Belarus, Palestine, Israel, Sudan, South Sudan, and other conflictzones.

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Contents

1.Introduction 01

2. Precautions 01

3. Package Contents 02

4. Description & Key Features 02

5. Specifications 03

6. Components 05

7. Installation 05

7.1 Battery Installation and Startup 05

7.2 Adapter Installation 06

7.3 Focusing 06

8. Home Screen Guide 07

9 . short Cut Mode Guide 07

10 . Menu Mode 10

11. FCC Warning 18

Introduction

Thank you for your support for choosing PARD device. Please read this manual carefully before using the device for the first time. Please follow the instructions in this manual to avoid any damage caused by improper use.

This manual provides step-by-step instructions on how to use the digital device and is intended for your reference only.

Please note that PARD reserves the right to update this manual without prior individual notifications. For the latest information and updates, we recommend you to visit our official website.

Precautions

- **Device Storage:** Store the device & battery in a dry and safe place.
- **Handling and Transportation:** Be extra cautious and handle the device with care during use or transportation. It is recommended to use the original packaging during transportation.
- **Light Exposure:** Do not use the device to focus directly on strong sources of light such as the sun. The detector may be damaged and it will void the warranty.
- **Lens Protection:** Avoid lens scratches and damage caused by oil or chemical contamination of the lens. Keep the lens cap on when not in use.
- **Environmental Considerations:** The device should be placed in a cool, dry, and ventilated environment without strong electromagnetic fields, and the storage environment temperature should not be lower than（–30℃/–22℉）or higher than（55℃/131℉）. And charge the device within a temperature range of 0°C - 45°C (32°F - 113°F).
- **Device Disassembly and Support:** Do not disassemble the device without authorization. If you encounter any problems, please contact our after-sales team. Failure to do so will render the warranty service null and void.
- **Attention!** All PARD devices require a license when exported to outside your country.

Package Contents

No.	Contents	Quantity
1	NV007SP2 4K	1
2	18650 lithium-ion battery	1
3	Adapter	1
4	Gasket	3
5	Type-C cable	1
6	Allen wrench	2
7	Insulating tape	1
8	Rubber O rings	2
9	User manual	1
10	Warranty card	1

Description & Key Features

Description

The NV007SP2 features a 4K sensor (3840×2160), delivering ultra-high-definition image quality with exceptional clarity and detail. This advanced sensor enables precise target identification, even at longer distances.

Paired with an upgraded 1600×1200 display offering nearly 2 million pixels, it ensures clear visuals and a realistic viewing experience. The 4:3 aspect ratio helps preserve the field of view, enhancing target recognition and accuracy.

The 20mm lens strikes a balance between a wide field of view and moderate magnification, making it ideal for mid- to long-range observation.

Notably, the detachable IR illuminator adapts to various lighting environments for greater flexibility. The device's compact and lightweight design ensures easy portability and user-friendly operation.

In summary, the NV007SP2 4K transforms a standard daytime scope into a powerful 24-hour system, enabling continuous performance day and night.

Key Features

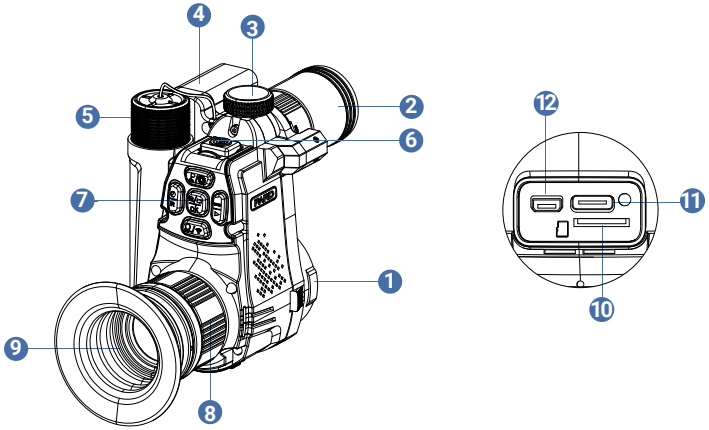
- 3840*2160 CMOS Image Sensor
- 1600*1200 Display Resolution
- Visible Light Enhancement Algorithm (VLEA)
- Detachable IR Illuminator
- WiFi Connection
- 6000J Recoil Resistance

Specifications

Model		NV007SP2 4K
Classification		Digital Night Vision Clip-on
Sensor		
Type		CMOS
Resolution(pixel)		3840*2160
Pixel size(μm)		2
Sensitivity(lux)		0.001
Frame rate(Hz)		60(Color)/30(Black&White)
Image Engine		PARD VLEA
Optics		
Objective lens (Focal length/mm)		12
Optical Magnification(x)		1.2
Digital zoom(x)		1/2/2.5/3/4
Field of view (°)	Horizontal	24.6
	Vertical	18.6
	Diagonal	30.5
Field of view (m @100m)	Horizontal	44
	Vertical	32
Focus range		3cm-∞
Eye Relief(mm)		35
Diopter adjustment(D)		±5D

Display	
Type	OLED
Resolution(pixel)	1600*1200
Color mode	Color/Black&White
Main function	
Auto recording	Yes
Time stamp	Yes
Exposure compensation	Yes
Storage(GB)	Micro SD card (Max. 128GB)
USB Type-C	Yes
WiFi	Yes
HDMI	Yes
Supported Apps	PardVision2
Battery type	Lithium Ion 18650*1
Output voltage(V)	3.7
Operating time(h,max)	6
External power supply(V)	Type-C
Housing	AL6061 & Composite
Objective lens	Glass
Product dimension(L x W x H, mm)	149*68*105
N.W/pcs(with battery, g)	397

Components



Note: The image shows the NV007SP2 4K with an IR illuminator, which is detachable and must be purchased separately.

No.	Name	No.	Name
1	Objective lens	7	Keypad
2	IR illuminator	8	Diopter focusing ring
3	Objective lens focusing wheel	9	Eyepiece
4	Laser Rangefinder	10	Micro SD card slot
5	Battery compartment cap	11	Type-C charging port
6	Power/Sleep button	12	HDMI port

Installation

1. Battery Installation and Startup

The battery installation steps are as follows:

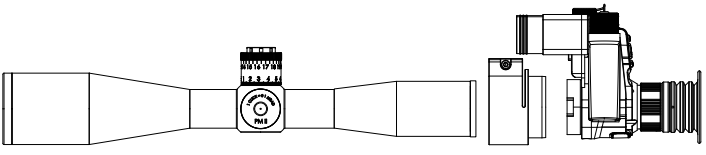
1. Rotate the battery cap until it opens and remove the battery.
2. Remove the insulating tape.

3. Put the positive pole (+) of the battery inwards, and then rotate the battery cap until the battery cap is locked.
4. To turn on the device, press and hold the power button for about 3 seconds. (When the PARD Logo appears on the screen, the device is ready for use.)

2. Adapter Installation

To ensure optimal performance and user experience, we highly recommend using our original adapter provided in the product packaging.

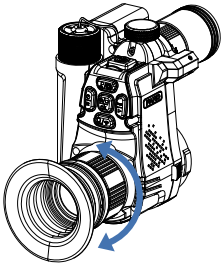
1. Remove the digital night vision device, adapter, gaskets and Allen wrench from the box.
2. Apply 1-2 layers of insulating tape to protect the daytime scope's ocular lens.
3. Attach the adapter to the objective lens of the NV007SP2 and turn it clockwise until hearing a "click" sound.
4. Choose the right gasket(s) for daytime scope's eyepiece diameter. Attach the adapter to the scope's eyepiece bell.
5. Secure by tightening the adapter locking lever.
   Note: When disassembling, press the adapter lock, rotate the adapter counterclockwise, and remove it.



3. Focusing

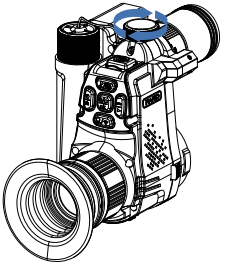
Diopter Adjustment

Rotate the diopter adjustment ring until the texts or icons on the screen are clearly.



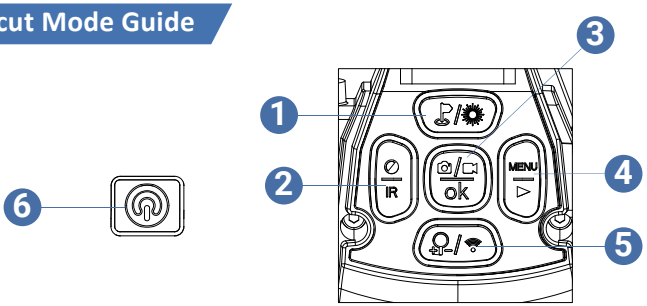
Objective Lens Adjustment

Rotate the objective lens focus wheel until a clear image of the target is achieved.

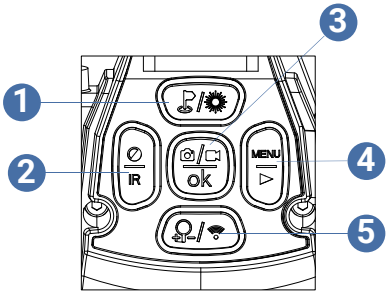


Home Screen Instruction

Shortcut Mode Guide



Knob		Single press	Press and hold
1		Laser Rangefinder / Up	/
2	IR	IR light level adjustment	Switch black & white/Color mode
3	OK	OK/Take a photo	Record video/Save video
4	MENU	Menu/Back	Files
5		Zoom in/Down	Turn on/off WiFi
6		Sleep on/off	Power on/off



Key 1

Single press:

- Menu mode: press [Key 1] to scroll up and adjust the relevant option settings.
- Home screen mode: press [Key 1] to turn on/of LRF.

Key 2

1. Single press:

Home screen mode: press [key 2] to adjust the IR light level.

Note: You can adjust the IR light level only after switching to black and white mode.

2.Press and Hold

Home screen mode: press and hold [Key 2] to switch between black and white/color mode.

Key 3

1. Single press:

- Home screen mode: press [Key 3] to take a photo;
- Menu mode: press [Key 3] to confirm.

2.Press and Hold

Home screen mode: press and hold [Key 3] to record video. Press and hold [key 3] again to save the video.

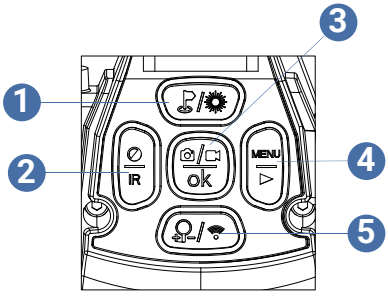
Key 4

1. Single press:

- Home screen mode: press [Key 4] to enter the menu.
- Menu mode: press [Key 4] to return to the previous menu.

2.Press and Hold

Home screen mode: press and hold [Key 4], the video and photo files stored on the SD card will be displayed.



- Press [key 1]/[key 5] to switch between files.
- Press [Key 3] to play/pause the saved videos.
- When playing videos, press [Key 1]/[Key 5] to fast forward or rewind at 2x/4x/8x times.
- Press [Key 4] to access the following settings.

1)Delete:
- Delete Current
- Delete All

2)Protect:
- Protect Current
- Unlock Current
- Lock All
- Unlock All

3)Slide Show:
- 2 seconds
- 5 seconds
- 8 seconds

- Press and hold [Key 4] to exit.

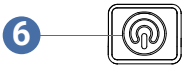
Key 5

1. Single press:
- Home screen mode: press [Key 5] to switch the magnification.
- Menu mode: press [Key 5] to scroll down between menu options.

2.Press and Hold

Home screen mode: press and hold [Key 5] to turn on/off WiFi.

Key 6

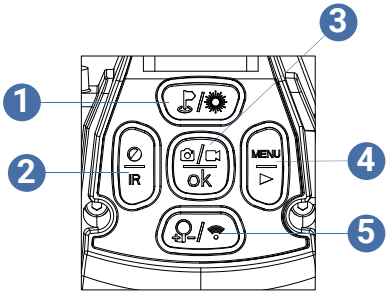


1. Single press:

press [Key 6] to turn on/off sleep mode.

2.Press and Hold

Press and hold [Key 6] to power on/off the device.



Menu Guide

Press [key 4] to enter the menu mode, where you can set various function options . Please note that the shortcut key function is disabled in this mode.

1. Display Brightness

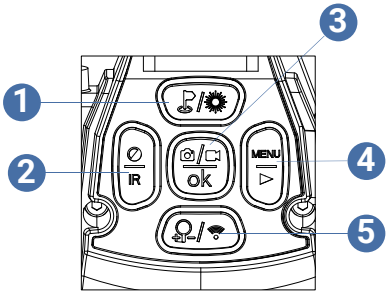
This function allows to adjust the brightness of the screen.

- Press [Key 1]/[Key 5] to move the cursor to display brightness option. Press [Key 3] to enter it.
- Press [Key 1]/[Key 5] to select "Level 0", “Level 1", "Level 2", "Level 3", "Level 4", "Level 5", "Level 6".
- Press [Key 3] to save and return to the previous page.

2. Range Unit Selection

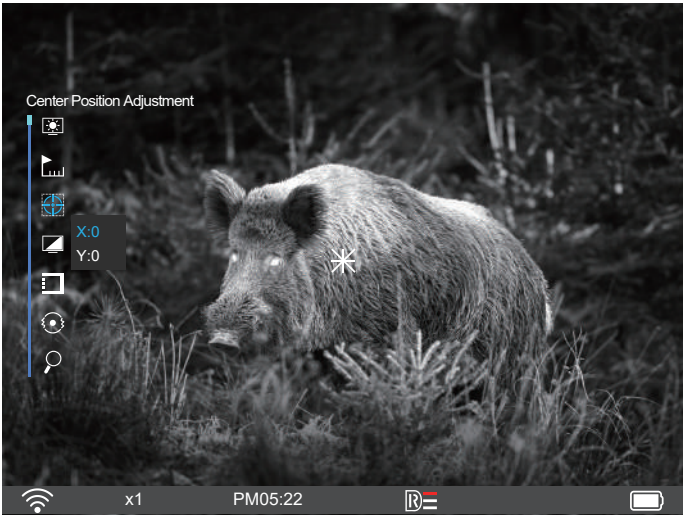
Users can choose "meter" or "yard" as the unit of measurement according to their habits.

- Single press [Key 5] to move the cursor to the range unit selection, and press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to choose between "meter" and "yard".
- Single press [Key 3] to save and return to the menu page.

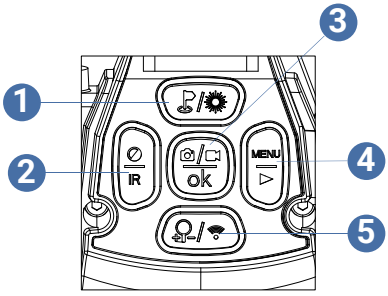


3. Center Position Adjustment

Reticle adjustment refers to adjusting the center of the NV007SP2. To ensures that the central point of the device is consistent with the optical scope.



- Single press [Key 1]/[Key 5]to move the cursor to Reticle Center Position Adjustment, and press [Key 3] to enter it.
- Single press [Key 3] to move the cursor to choose "X" or "Y", single press [Key 1]/[Key 5] to adjust the value of the "X"/"Y" axis until the center of the auxiliary crosshair on the NV007SP2's screen aligns with the center of the optical scope's crosshair.
- Long press [Key 3] to save and exit, and the auxiliary crosshair will no longer be displayed on the screen.



4. Default Color

Users can choose “Color”/ “Black & White” according the needs.

- Single press [Key 1]/[Key 5] to move the cursor to default color setting option, and press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to select “Color” or “Black & White”.
- Single press [Key 3] to save and exit.

5. Layout

Users can customize the location and content of icons on the home screen.

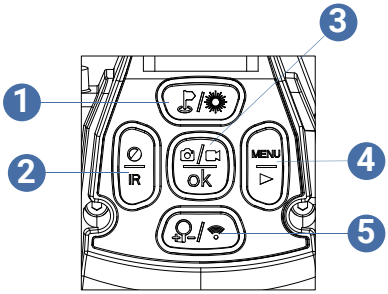
- Single press [Key 1]/[Key 5] to move the cursor to layout.
- Single press [Key 3] to enter it, press [Key 3] again to choose group A/B/C/D/E, and press [Key 1]/[Key 5] to move the cursor among “Date”, "bottom", "top" , "right", "show all", "hide all" , “WiFi” and “Time”.
- Single press [Key 5] to confirm the option and long press [Key 5] to save the option and exit.

6. Self-activated Recording

Recoil-activated recording provides an ongoing 20-second loop, when recoil is detected, the video is automatically moved to the Micro SD card.

- Single press [Key 1]/[Key 5] to move the cursor to the Self-activated Recording, single press [Key 3] to enter it, press [Key 3] to choose “On” or “Off”.
- Single press [Key 1]/[Key 5] to move the cursor among "Low", "Midium" "High". Single press [Key 3] to choose the option and long press [Key 3] to save the option and exit.

Note: Impact sensitivity can only be customized after selecting 'On'.



7. Default Magnification

User can choose the desired digital magnification through the option.

- Single press [Key 1]/[Key 5] to move the cursor to the default magnification. Single press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to move the cursor to select the desired magnification. Single press [Key 3] to save and exit.

Note: It will be the chosen magnification after the next startup.

8. Preset Brightnese of IR Fill Light

The function allows users to adjust the brightness of IR illuminator.

- Single press [Key 1]/[Key 5] to the brightness of IR option. Press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to select among "Off", "1", "2","3”option
- Single press [Key 3] to save and exit.

Note: It will be the chosen IR light level after the next startup.

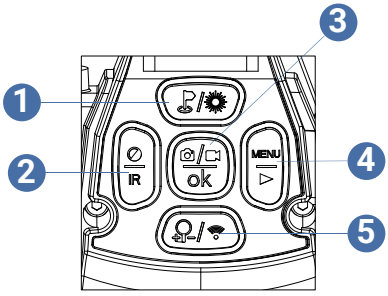
9. WiFi

Through the WiFi connection, users can use phone as an external viewfinder.

- Single press [Key 1]/[Key 5] to the WiFi option. Press [Key 3] to enter it;
- Single press [Key 1]/[Key 5] to select "Off" or “On” options.
- Select 'Off' and press [Key 3] to save and return to the previous page. Choose 'On' to enable Wi-Fi and go back to the home screen.

Steps to connect to your mobile device:

- Download “PardVision 2” from the Apple App Store or the Google Play Store.
- Enable Wi-Fi of the NV007SP2 and mobile device.
- Search for the Wi-Fi network on your mobile device (the device Wi-Fi network is a string of characters starting with PARD, which is a unique string of numbers).
- Enter the password: 12345678 to connect.
- Enter the application to operate and use.



10. Exposure

Users can choose the preferred exposure settings.

- Single press [Key 1]/[Key 5] to the exposure option. Single press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to select the preferred option.
- Single press [Key 3] to save and exit.

11. Language

Users can choose the preferred language.

- Single press [Key 1]/[Key 5] to the language option. Single press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to select preferred language
- Single press [Key 3] to save and exit.

12. Icon Display

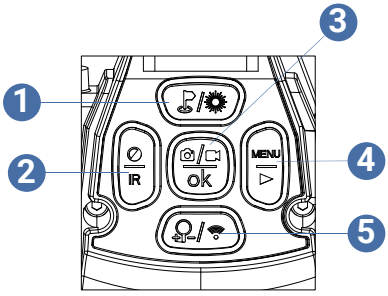
Users can choose the preferred icon display time.

- Single press [Key 1]/[Key 5] to the icon display. Single press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to select "On", "30SEC", "1Min", "3Min", "5Min", "10Min".
- Single press [Key 3] to save and exit.

13. Default Setting

If users decide to reset the device, it will restore the device to the factory default settings and all of the user data and personalized settings will be deleted. **Please operate with caution!**

- Single press [Key 1]/[Key 5] to the default setting. Single press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to select "Cancel" or "OK" option.
- Single press [Key 3] to save and exit.



14. Version

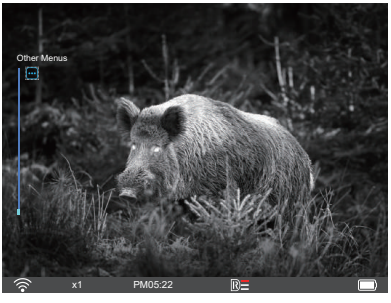
- Single press [Key 1]/[Key 5] to the version option. Single press [Key 3] to enter it.
- Single press [Key 3] again to return to exit.

15. Other Menus

There are 5 secondary menus under other menus: Auto power off/ Auto recording setting/ Date stamp/ Date time/ Format".

(1) Single press [Key 1]/[Key 5] to the other menu, single press [Key 3] to enter it.

(2) Press [Key 1]/[Key 5]to select the option you want to adjust.

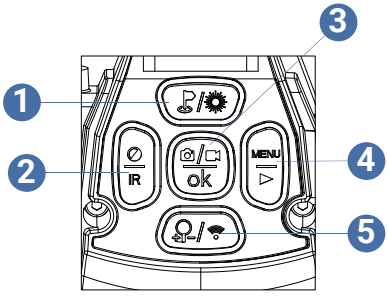


15.1 Auto Power Off

After selecting your preferred time duration, the device will sense the last point of operation. Auto power off will start after the device has been idle then it automatically triggers the auto power off command.

- Single press [Key 1]/[Key 5] to the auto power off, single press [Key 3] to enter it. Single press [Key 3] again to choose “On” or “Off”.
- Single press [Key 1]/[Key 5] to move the cursor among "1Min", "10Min","30Min".
- Single press [Key 3] to choose the option and long press [Key 3] to save the option and exit.

Note: Auto power off time can only be customized after selecting 'On'.



15.2 Auto Recording Setting

Once this function is enabled, the device will initiate automatic recording and continue this operation after the next power-on.

- Single press [Key 1]/[Key 5] to the auto recording option. Single press [Key 3] to enter it. Single press [Key 3] again to choose “On” or “Off”.
- Single press [Key 1]/[Key 5] to move the cursor among "All time" "1Min", "10Min","30Min" and "Audio". Single press [Key 3] to choose the option.
- Long press [Key 3] to save the option and exit.

Note: Auto recording setting can only be customized after selecting 'On'.

15.3 Date Stamp

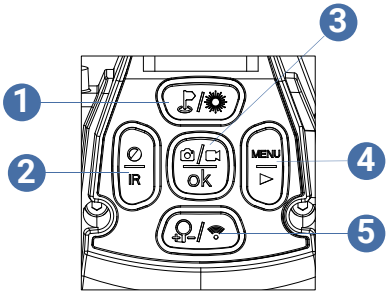
Users can set whether to display the time stamp in the lower right corner of photos and videos taken.

- Single press [Key 1]/[Key 5] to the date stamp. Single press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to select "Off" or “On” options.
- Single press [Key 3] to save and exit.

15.4 Date/Time

Users can set date and time of the device.

- Single press [Key 1]/[Key 5] to the date/time. Single press [Key 3] to enter it.
- Single press [Key 3] to switch among options, Single press [Key 1]/[Key 5] to adjust the related value.
- Single press [Key 4] to save and exit.



15.5 Format

Format means the device will delete all the data on the Micro SD card permanently. Data cannot be recovered after formatting.

Please operate with caution!

- Single press [Key 1]/[Key 5] to the format option. Single press [Key 3] to enter it.
- Single press [Key 1]/[Key 5] to select "Cancel" or "OK" option.
- Single press [Key 3] to save and exit.

FCC Warning

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, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC 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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment. The device has been evaluated to meet general RF exposure requirement. This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or conjunction with any other antenna or transmitter.

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