

RUX



**THERMAL
IMAGING SCOPE**

STORM SERIES

User Manual V1.0



Inspect batteries for damage before charging.

Fully charge batteries before use.

Avoid pointing the device at the sun or high heat sources.

Damage to the core sensor caused by improper handling is not covered under warranty.

▼ **TABLE OF CONTENTS**

▼01	PRODUCT FEATURES	01
▼02	APP DESCRIPTION	01
▼03	PRODUCT PARAMETERS	02
▼04	IN THE BOX	04
▼05	PRODUCT APPEARANCE	05
▼06	BATTERY INSTALLATION	06
▼07	PRODUCT INSTALLATION	07
▼08	BUTTONS OPERATION	08
▼09	HOME SCREEN ICONS	11
▼10	HOME SCREEN FUNCTION	12
▼11	SHORTCUT MENU FUNCTION	16
▼12	MAIN MENU FUNCTION	17
▼13	INTRODUCTION OF RIX+ App	22
▼14	LEGAL AND REGULATORY INFORMATION	23

01 PRODUCT FEATURES

- High image quality
- Weather mode for better imaging in high humidity
- High resolution 1920x1080 AMOLED display
- In clear conditions: LRF up to 2000m, with exceptional stability even in rain and fog
- Easy operation
- Lightweight and compact

02 APP DESCRIPTION

For more features, please use RIX+ app.



As this product is an electronic device, it is recommended to read or download the latest manual on the RIX website or RIX+ app to obtain the most up-to-date product instructions.

03 PRODUCT PARAMETERS

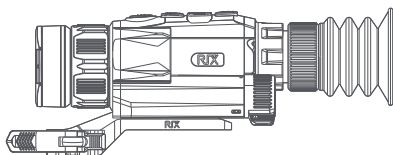
Model	STORM S6R V2		STORM S3R V2
Sensor Specifications			
Type	VOx Uncooled Focal Plane Arrays		
Resolution, pixels	640×512		384×288
Pixel pitch, μm	12		
NETD, mK	<15		
Frame rate, Hz	50		
Optics			
Objective lens, mm	35, F1.0		
Base magnification, x	2.5x		3.5x
Digital Zoom, x	1 to 4x		
Field of View(H×V), degrees/°@100yd	12.5°×7.7°/21.9×13.5		7.5°×4.6°/13.2×8.1
Field of View(H×V), degrees/m@100m	12.5°×7.7°/21.9×13.5		7.5°×4.6°/13.2×8.1
Eye relief, mm	52		
Diopter adjustment, D	-5D to +5D		
Detection range, m/°yd	1800/1969		
Display Specifications			
Type	AMOLED		
Resolution, pixels	1920×1080, 0.49 inch		
Laser Rangefinder			
Max. Measuring Range, m/°yd	2000/2187		
Measurement Accuracy, m/°yd	±1/1.09		

Model	STORM S6R V2	STORM S3R V2
SoftWare Function		
RET	Supported when the digital zoom is 2x or higher.	Support
Ballistic Calculation	Yes, 5 Zeroing Profiles Supported	
Video Recorder		
Video / Photo Resolution, pixels	1744x1072	
Video / Photo Format	.mp4/ .jpg	
Built-in Memory, GB	64	
Physical Specifications		
Degree of Protection, IP Code	IP67	
Operating Temperature Range, °C/°F	-20 to +50/-4 to +122	
Weight, Without External Battery, g/lb	528/1.16	525/1.16
Dimensions, mm/inch	163x73x66/6.4x2.9x2.6	
Connections and Compatibilities		
Battery Type	18650	
Operating Time on Battery Pack (at t=25 C /72°F), h	4	
External Power Supply, V	5 (Type-C USB)	
Max Recoil Power on Rifled Weapon (Eo), g/J	1000 / 6000	
Compatible mounts	Picatinny mount	
Wi-Fi	Support	

Tips

The results of operating time is tested at 25°C/72°F using RIX batteries. Battery life may vary based on temperature and usage conditions.

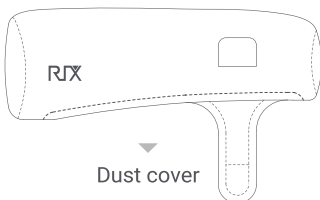
04 IN THE BOX



The STORM Series
Thermal Imaging Scope



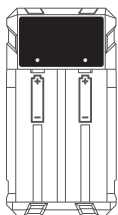
Battery Fireproof Bag



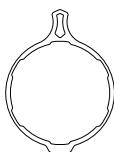
Dust cover



Thermal target×10



Battery charger



Throw lever



Battery×2



USB Type-C cable

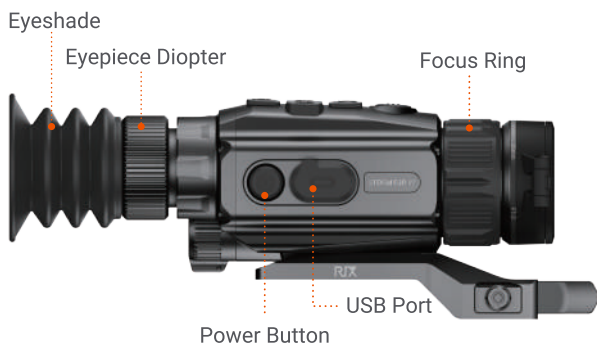


Lens cloth



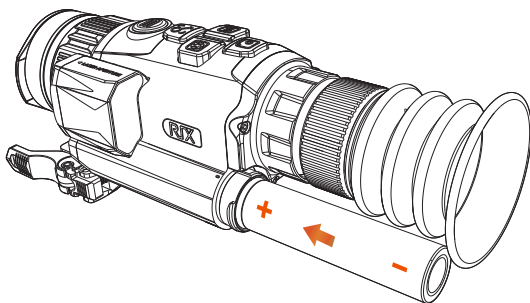
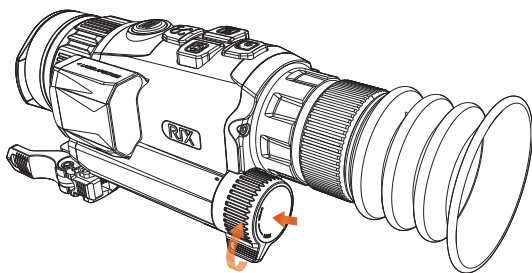
Hex key

05 PRODUCT APPEARANCE

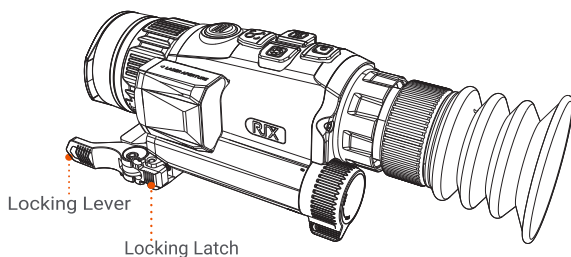


06 BATTERY INSTALLATION

- Use a replaceable 18650 battery .
- Can be powered via USB-C for extended use.

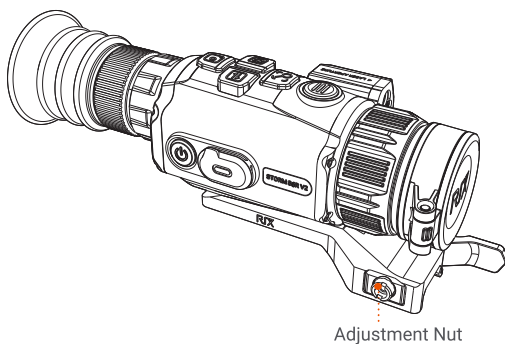


07 PRODUCT INSTALLATION



1. Depress the locking latch and swing the locking lever 90° to the open position to unlock the mount.

2. Install the device and the mount onto the Picatinny rail and then swing the locking lever to the locked position.



3. Rotate the adjustment nut to adjust the close tension.

08 BUTTONS OPERATION

Power on/off



Press&Hold
Power on /off the device

Standby/Exit Standby



Press
Enter/exit standby

Home Screen



Press
Open the shortcut menu
Press&Hold
Open the main menu



Press
Switch digital zoom / Switch PIP zoom
Press&Hold
Turn on/off the PIP function



Press
Switch image patterns
Press&Hold
Image correction



Press
Turn on/off LRF
Press&Hold
Turn on/off ballistic calculation



Press
Start / Stop video recording
Press&Hold
Take a photo

Shortcut Menu Screen



Press
Return to the home screen with saved changes



Press
Return to the home screen with saved changes



Press
Switch image contrast



Press
Switch reticle color



Press
Switch reticle type



Press
Adjust screen brightness

Main Menu Screen



Press
Return to the home screen with saved changes



Press
Switch menu pages

Press&Hold
Return to the home screen with saved changes



Press
Switch weather mode/
Turn on/off Wi-Fi/
Factory Reset



Press
Turn on/off attitude/
Turn on/off LRF icon/
Enter bad pixel correction screen



Press
Switch zeroing profiles/
Set recoil to zoom/
Switch angle unit



Press
Enter zeroing screen/
Turn on/off RAV/
Switch length unit

Setting Screen of Zeroing Distance



Press
Enter to the zeroing screen with saved changes



Press
Enter to the zeroing screen with saved changes



Press
Reduce the value



Press
Increase the value



Press
Shift the digit to the left



Press
Shift the digit to the right

Zeroing Screen



Press
Choose whether to save
and exit



Press
Freeze / Resume



Press
Move reticle up slowly
Press&Hold
Move reticle up quickly



Press
Move reticle left slowly
Press&Hold
Move reticle left quickly



Press
Move reticle right slowly
Press&Hold
Move reticle right
quickly



Press
Move reticle down slowly
Press&Hold
Move reticle down quickly

Bad Pixel Correction Screen



Press
Choose whether to
save and exit



Press
Confirm/cancel bad pixel
Press&Hold
Return to the home screen
with saved changes



Press
Move reticle up slowly
Press&Hold
Move reticle up quickly



Press
Move reticle left slowly
Press&Hold
Move reticle left quickly

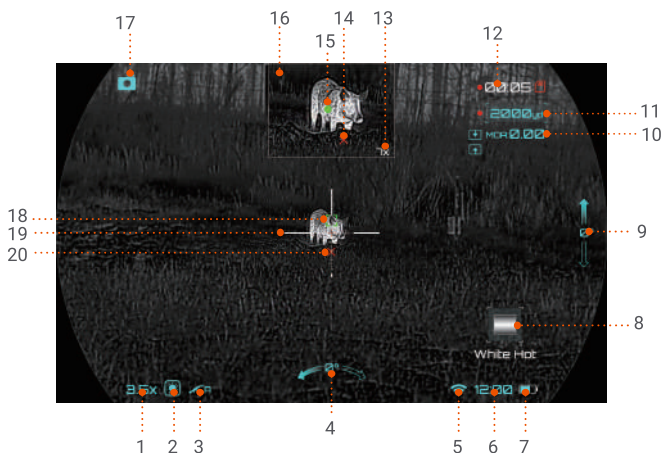


Press
Move reticle right slowly
Press&Hold
Move reticle right
quickly



Press
Move reticle down
slowly
Press&Hold
Move reticle down quickly

09 HOME SCREEN ICONS



ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	Zoom level of home screen	11	Laser rangefinder data
2	Weather mode	12	Video recording duration
3	Zeroing profile	13	Zoom level of PIP
4	Roll angle	14	POI of PIP
5	Wi-Fi status	15	POA of PIP
6	Real-time clock	16	PIP Interface
7	Battery status	17	Capture Icon
8	Image pattern	18	LRF aiming point Icon
9	Pitch angle	19	Reticle
10	Ballistic calculation data	20	POI of home screen

10 HOME SCREEN FUNCTION

10.1 Digital Zoom



Press the up button.

This function allows you to adjust the magnification of the thermal image on the home screen, enhancing target identification and aiming precision. The status bar displays the total magnification, which is calculated by multiplying the optical magnification by the digital zoom.

10.2 PIP



Press and hold the up button.

Once activated, a PIP window will appear at the top of the home screen. This function assists in detailed observation and precise aiming at small, distant targets while allowing you to maintain full situational awareness of the surrounding area. When adjusting the digital zoom, only the image within the PIP window will change; the home screen image remains unaffected and fixed at 1x digital zoom.

10.3 Videos and Photos



Press the down button to capture a video; press and hold the down button to capture a photo.

This function allows you to capture exciting moments at any time. Captured videos and photos can be viewed and deleted via the RIX+ App or a computer.

10.4 Image Patterns



Press the left button.

The product features 6 color palettes. Their characteristics and applications are as follows:

White Hot:

Warmer targets appear in white; higher temperatures yield a lighter, brighter image.

Renders higher temperatures in lighter shades, with the hottest targets appearing as bright white against a darker background. Ideal for precise target identification.

Black Hot:

Warmer targets appear in black; higher temperatures yield a darker, high-contrast image.

Displays warmer signatures in darker tones, reaching solid black at peak temperatures. Delivers sharp contour lines, making it a favorite for seasoned shooters.

Red Hot:

Pinpoints the highest temperature zones in vibrant red, while the background remains in subtle grayscale.

Keeps the overall scene in a natural grayscale while isolating and highlighting the hottest heat sources in vivid red. Perfect for rapid scanning and instant detection.

Red Monochrome:

A full-red spectrum display; higher thermal signatures are mapped to lighter shades of red.

Translates the entire thermal image into a red spectrum, where increased temperatures correspond to lighter, high-contrast red tones. Optimizes visual contrast in specific environments.

Green Monochrome:

A full-green spectrum display; higher thermal signatures are mapped to lighter shades of green.

Bathes the image in a comfortable green gradient, scaling from deep forest green to pale light green as temperatures rise. Formulated to minimize eye strain during extended night observation.

Color:

Maps the infrared spectrum across a wide, vibrant color gradient, rendering the highest temperatures in bright yellow and the coldest regions in deep purple, with intermediate temperatures transitioning through shades of orange, red, and magenta.

Maximizes thermal gradient visibility. By amplifying subtle temperature differences through distinct color shifts, it allows shooters to quickly analyze target structures and distinguish fine details in landscapes with low thermal contrast.

10.5 Image correction



Press and hold the left button.

Thermal sensors naturally accumulate internal heat fluctuations over time, which can introduce background noise, ghost images, or vertical lines into the live feed. The function instantly drops an internal shutter to reset the sensor's pixels to a uniform baseline, wiping away artifacts and restoring a crystal-clear thermal image.

When activated, you will hear a brief "click" sound, and the screen will freeze for a fraction of a second. This is completely normal and ensures optimum target detection and identification accuracy.

The product offers two calibration modes: manual mode and automatic mode. The Automatic mode feature is enabled by default. The device automatically performs image correction based on roll angle, pitch angle, and image quality.

10.6 LRF(Laser Rangefinder):



Press the right button.

This function allows you to measure the distance to a distant target and display it on the screen.

The function operates in two modes: when Ballistic Calculation is disabled, it functions as a basic Continuous Ranging Mode; when Ballistic Calculation is enabled, the display integrates with the ballistic data. In this integrated mode, turning off Ballistic Calculation will simultaneously deactivate the laser ranging function.

You can customize the appearance of the LRF reticle icon via the RIX App.

10.7 Ballistic Calculation:



Press and hold the right button.

This function provides a suggested aiming point on the screen based on the target's distance, significantly enhancing shooting accuracy.

Before using this function, you must configure the ballistic parameters in the RIX+ App. You can also customize the style of the impact point icon within the RIX+ App.

11 SHORTCUT MENU FUNCTION

11.1 Screen Brightness



Adjusts display intensity across multiple levels to optimize target visibility and reduce eye fatigue under changing light conditions.

11.2 Image Contrast



Fine-tunes the brightness difference between targets and the background to maximize thermal separation and highlight object outlines.

11.3 Reticle Color



You can customize the reticle color to suit your preferences.

11.4 Reticle Style



You can choose from 9 different reticle styles:

- Styles 1–4: Static reticles.
- Styles 5–9: Smart / scalable reticles.
- Customization: For Style 9, you can design a custom reticle to suit your preferences via the RIX+ App.

Note:

If the reticle is set to OFF, the zeroing function will be disabled. However, the Laser Rangefinder (LRF) and ballistic calculation functions will continue to operate normally.

12 MAIN MENU FUNCTION

12.1 Weather Mode



Optimizes image processing algorithms in real time to counteract ambient atmospheric interference, ensuring reliable target detection in shifting weather conditions.

Sun: Formulated for dry, clear, and sunny conditions. It maximizes the sensor's dynamic range to deliver crisp background textures, razor-sharp contour lines, and the richest possible image details.

Rain: Specifically engineered to cut through high-humidity environments, heavy mist, or rainy day. It dynamically boosts thermal contrast and activates advanced noise-reduction algorithms to prevent image washout caused by atmospheric moisture, allowing you to slice through background clutter and maintain target focus.

12.2 Attitude



Utilizes integrated accelerometer and gyroscope to measure and display the real-time spatial attitude of your device directly on the home screen.

Pitch Angle: Monitors the upward or downward angle of the barrel. It provides critical data for long-range ballistic calculations, helping shooters compensate for elevation changes when shooting uphill or downhill.

Roll Angle: Monitors the lateral (left/right) tilt of the rifle. Keeping the roll angle at zero eliminates "scope cant"—a common error that causes bullets to drift sideways over long distances—ensuring absolute vertical alignment before pulling the trigger.

12.3 Zeroing Profiles



Allows the users to create, store, and manage multiple independent zeroing profiles for different firearms or ammunition types on a single thermal device.

12.4 Zeroing



In the zeroing screen, you can set the zeroing distance and adjust the zeroing parameters.

12.4.1 Zeroing Distance

Defines the specific range at which the riflescope is calibrated to align the point of aim (POA) with the point of impact (POI).

Setting an accurate zeroing distance is the critical baseline for the internal ballistic calculator. Since bullet trajectories vary drastically at different ranges, inputting the exact target distance (e.g., 100 yards or 100 meters) ensures that subsequent long-range holdover adjustments remain mathematically precise.

12.4.2 Zeroing

Simplifies the sight-in process by allowing the shooter to zero the riflescope with minimal ammunition, often requiring just a single shot.

The Zeroing Feature:

This electronic alignment system allows you to adjust the reticle coordinates (X/Y axes) to match the rifle's actual point of impact (POI) with its point of aim (POA).

The Freeze Function:

When activated, the device instantly captures and freezes the live thermal image of your target area after the first shot. Once the frame is frozen, you no longer need to hold the rifle perfectly still. You can comfortably adjust the screen coordinates to move the auxiliary zeroing reticle from the bullseye directly onto the actual bullet hole.

How to Use:

Aim at the target center and fire a shot.

Aim at the target center again and activate the Freeze function to lock the image.

Move the reticle until it aligns perfectly with the actual bullet impact point (POI).

Turn off Freeze mode, then take another shot to confirm the zero.

Save and exit; your device is now perfectly zeroed.

Note:

When the reticle center is close to the LRF aiming icon, a pop-up window will appear on the screen asking "Icon near reticle. Hide LRF icon?". You can also configure this setting via the "LRF Icon" function in the main menu.

12.5 Wi-Fi



When Wi-Fi is on, you can connect your smartphone to the device to control functions and manage settings via the RIX App. You can also customize the Wi-Fi network name (SSID) and password directly within the RIX App.

12.6 LRF Icon (LRF Aiming Icon)



This function allows you to show or hide the LRF aiming icon (not the distance measurement value). When the icon is too close to the main reticle center, it may clutter your view; in this case, you can choose to hide it. Once hidden, the main reticle center will serve as the LRF aiming point for distance measurement, without affecting the functionality of either laser ranging or ballistic calculation.

12.7 Recoil to Zoom



Once enabled, the digital zoom on the main screen will automatically adjust to a preset value after a shot is fired. This allows you to quickly assess any changes in the hunting environment or perform finer aiming for subsequent shots.

12.8 RAV (Recoil Activated Recording)



Once enabled, the device will automatically save recorded video clips from both before and after a shot is fired. The saved video spans approximately 10 seconds prior to and 30 seconds following the shot. You can view and manage these video files via the RIX+ App or by connecting the device to a computer.

12.9 Factory Reset



WARNING: > Please use this function with extreme caution!

Once activated, most of your personalized parameters will be deleted, and the device will be restored to its factory default settings. However, rifle profiles, zeroing data, repairing bad pixels data, and captured videos and photos will NOT be deleted.

12.10 Bad Pixel Correction



This function allows you to repair bad pixels on the image.

Upon entering the bad pixel correction interface, use the buttons to align the center of the reticle icon with the bad pixel, then press the menu button to confirm.

Once all bad pixels have been confirmed, press the power button to save and exit the settings. If you choose to save the changes, the bad pixels will be automatically corrected after you exit the interface.

12.11 Angle Unit



You can select either MOA or mil, according to your personal preference.

12.12 Length Unit

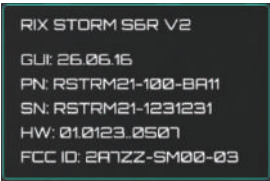


You can select either Meters or Yards, according to your personal preference.

12.13 Info



On the third page of the main menu, a device information pop-up window will automatically appear on the screen, as the following picture:



This pop-up window contains the following information: Product Model, Part Number (PN), Serial Number (SN), Firmware Version (GUI), and other device details.

13 INTRODUCTION OF RIX+ App

The RIX+ App offers the following functions and custom settings:

- Live View: Stream the device's real-time thermal image directly to your phone.
- Media Management: View, download, and manage captured photos and recorded videos.
- Remote Control: Operate and control the device directly via the RIX+ App.
- Parameter Settings: Configure device parameters, including screen brightness, image contrast, weather mode, LRF reticle style, LRF data display position, ballistic impact point icon style, main reticle style, reticle color, Recoil Activated Video (RAV) switch, angle unit, length unit, brand watermark icon, Wi-Fi name/password, and system device time.
- Ballistic Profiles: Set and manage ballistic calculation parameters for multiple rifle profiles.
- Custom Reticle: Design your own customized layout for Reticle No. 9.
- Firmware Updates: Download and install the latest firmware versions for your device.
- And more.

14 LEGAL AND REGULATORY INFORMATION

Wireless Transmitter Module Frequency Range

WLAN: 2.412-2.472GHz

Wireless transmitter module power < 20dBm

FCC Statement

FCC ID: 2A7ZZ-SM00-03

Labeling Requirements

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.

Information To The User

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

EMC Class B

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



a) Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.

b) Even used batteries may cause severe injury or death.

c) Call a local poison control center for treatment information.

d) Battery type: ML1220L

e) Nominal voltage: 3V

f) Non-rechargeable batteries are not to be recharged.

g) Do not force discharge, recharge, disassemble, heat above (manufacturer' s specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.

h) The product contains a non-replaceable battery.

Class 1 Consumer Laser Product

This thermal imaging scope is classified as a Class 1 Laser Product according to IEC 60825-1: 2014 and EN 60825-1:2014+A11:2021. And it is a Class I laser product that Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

Caution statement

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Make sure that objects, such as your hand or finger, aren't blocking the lenses -as this could interfere with the emission and reception of the laser.

Laser Warning

STORM S6R V2/STORM S3R V2



LASER APERTURE





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