



For detailed information about the device, please download the complete user manual:

https://http://www.kingnighteyes.com/Download/list_l-cid_3.html

Attention!

Product in this document subject to update without notice.

Download Quick Start Guide





Viper Series

Quick Start Guide

ENGLISH

Packaging List

·Viper Series Monocular Thermal Imager

·18650 battery*2

·Dual Battery Charger

·Type-C USB Data Cable

Lens Cleaning Cloth

·Wrist Strap

·Quick Start Guide

·Warranty Card

Components and Button Operations

- 1.Objective Lens Cover
- 2.Objective Focusing Ring
- 3. Power Button
- 4.Up Button / Zoom Button
- 5. Menu Button
- 6.Down Button / Color Palette Switch Button

7.Eyepiece

8.Eyecup

9.Battery Compartment Cover

10.Battery Compartment Cover Anti-Loss Strap

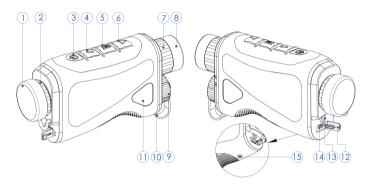
11.Nameplate

12.Soft cover

13.Laser Window

14.Type-C Interface

15.Threaded mouth



Device Charging

• he Viper Series is equipped with 18650 rechargeable lithium batteries. The battery is partially charged before leaving the factory. It is recommended to charge the device before first use. Please use a power adapter with an input of AC 110V-240V, output of 5V = 2A, and connect it to the device's Type-C port using the Type-C USB data cable for charging.

When the device is charging, the charging indicator light will turn red and remain on. Once charging is complete, the charging indicator light will turn off.

Notice: If the user does not plan to use this product in the short term, ensure the battery is charged to at least three bars to prolong its lifespan.

Operation Instructions

- **Power On:** Long press the power button (③) for 5 seconds to start.

 Once powered on, open the objective lens cover (①).
- **Diopter Adjustment:** Rotate the diopter adjustment knob (①) until the text on the display appears clear. For the same user, there is no need to adjust the diopter when used again.
- **Focus Adjustment:** Rotate the objective focusing ring (②) to adjust the focus on the observed object.
- •Shortcut MenuNavigation: Short press the menu button (⑤) to open the shortcut menu. Use the Up Button / Zoom Button (④) and Down Button / Color Palette Switch Button (⑥) to navigate through the menu. Short press the menu button (⑥) repeatedly to cycle through options such as screen brightness,

contrast, scene mode, hotspot tracking, PIP, shutter Settings, video output, and WIFI switch. Once settings are complete, long press the menu button (5) to exit to the main screen.

•Main Menu Navigation: Long press the menu button (⑤) to open the main menu. Use the Up Button / Zoom Button (④) and Down Button / Color Palette Switch Button (⑥) to navigate within the corresponding menu. Short press the menu button (⑤) again to cycle through settings for laser indicator calibration, language, time setting, blind pixel calibration, formatting, factory Settings restoration, electronic information. After completing the settings, long press the menu button (⑤) to exit to the main interface.

•Power Off: Long press the power button (③) for 1 seconds, and the shutdown countdown screen will appear. When the countdown icon counts from 3 to 0, release the button and the device will shut down.

Key function

Button	Device Status Current operating mode	Short Press	Long Press
Power	Any Status	Standby	Power
Button		/Wake Up	On/Off

Menu Button	Main Interface State	Open Shortcut Menu	Open Main Menu
	Shortcut Menu /Main Menu Interface	Cycle Through Current Menu Options	Exit Shortcut Menu/Main Menu
	Blind Pixel Calibration Interface	Select Current Menu Option	Return to Previous Interface
Up Button / Zoom Button	Main Interface State	Cycle Zoom	Manual Shutter Calibration
	Shortcut Menu /Main Menu Interface	Scroll Up Through Menu Options	Fast Upward Movement
	Blind Pixel Calibration Interface	Move Up/Left	Fast Upward /Leftward Movement
Down Button / Zoom Button	Main Interface State	Switch Color Palette	Enable/ Disable Laser
	Shortcut Menu /Main Menu Interface	Scroll Down Through Menu Options	Fast Downward Movemen
	Blind Pixel Calibration Interface	Move Down/Right	Fast Downward /Rightward Movement
Up Button + Down Button	Main Interface State	Stadiametric Ranging	/
Menu Button + Down Button	Main Interface State	Take a Photo	Start/Stop Recording

Technical specification parameter

Model	H15	H25	Q35		
Detector Specifications					
Detector Type	Vox	Vox	Vox		
Resolution, Pixel	384×288	384×288	640×512		
Pixel Size, µm	12µm	12µm	12µm		
NETD, mK	≤25mk	≤25mk	≤25mk		
Frame Rate, Hz	50Hz	50Hz	50Hz		
Optical Characteristic	Optical Characteristics				
Objective lens, mm	15mm	25mm	25mm		
Magnification, x	1.5x	2.4x	1.5×		
Digital zoom, x	1x 2x 4x 8x 16x	1x 2x 4x 8x 16x	1x 2x 4x 8x 16x		
Min Focus Distance, M/Y	5m	5m	5m		
Exit pupil distance, mm	18mm	18mm	18mm		
Exit pupil Diameter, mm	7mm	7mm	7mm		
Field of View (H × V),degree	17.5°×13.1°	10.5°×7.9°	17.5°×14°		
Diopter, D	-5D~+5D	-5D~+5D	-5D~+5D		
Detection Range, m (Target size: 1.7m×0.5m)	700m	1200m	1200m		
Detacrtion range (Verhicle)	1500m	2400m	2400m		
Rangefinder Characteristics					
Wavelength, nm	905	905	905		
Measuring Range, M	1200	1200	1200		
Measurement accuracy, M	±1	±1	±1		
Electrical Characteristics					

Display Type	OLED	OLED	OLED
Resolution, pixels	1024×768	1024×768	1024×768
WiFi Frequency,GHz	2.4GHz	2.4GHz	2.4GHz
Video/Photo fomat	avi/jpg	avi/jpg	avi/jpg
Built-in memory, GB	32G	32G	32G
Power Supply, V	3~4.2V	3~4.2V	3~4.2V
Battery type×QTY /Capacity, mA	18650 Battery x 1/3200mAh	18650 Battery x 1/3200mAh	18650 Battery x 1/3200mAh
External power supply, V	5~12v 2a	5~12v 2a	5~12v 2a
Others Characteristics			
Operating time, hours (T=22°C)	6H	6H	6H
Operating - temperature, °C	-20°C~+50°C	-20°C~+50°C	-20°C~+50°C
Storage temperature, °C	-40°C~+60°C	-40°C~+60°C	-40°C~+60°C
Body material	Aluminium alloy	Aluminium alloy	Aluminium alloy
Degree of protection, IP code (IEC60529)	IP67	IP67	IP67
Dimension (L×W×H), mm	158×75×44	158×75×44	158×75×44
Weight (without battery), g/oz	420g/14.81oz	422g/14.88oz	424g/14.95oz

Kingnight APP

Download the Kingnight App, and easily transmit highlights captured by the Viper Series thermal imaging devices to your smart device in real-time via WiFi. The app also allows the user to perform basic device settings, capture snapshots, or record unforgettable moments.

Download KINGNIGHT View App



Actual usage time depends on factors such as Wi-Fi, ambient temperature, display brightness, and the extent of built-in recording usage.

Signal reception range is influenced by various factors including obstacles and wireless networks.

·The maximum repair period for the product is two years.

We are committed to continuously improving the performance and design of our products to enhance your experience.

For more products, please visit our website:

http://www.kingnighteyes.com/

Disclaimer

When using this product, please strictly comply with applicable laws and regulations, avoid infringing on third-party rights, including but not limited to rights of publicity, intellectual property rights, data rights, or other privacy rights. You must not use this product for illegal hunting, military purposes, invading others' privacy, or any other illegal or harmful activities to the public interest. You must not use this product for the development of weapons of mass destruction, biological or chemical weapons, nuclear explosions, or any other unsafe use of atomic energy that could infringe upon human rights.

Purchase of this machine is equivalent to accepting the constraints of this statement, equivalent to agreeing to sign the relevant liability statement. In case of any violation, the company shall not be held responsible.

Safety

- ·Ensure the device has no visible damage before using.
- ·Test if the device displays clear and uninterrupted images.
- Strictly follow national and regional electrical safety regulations while installing and using.
- Do not point the lens at strong light sources (e.g., the sun or incandescent lamps) to prevent damage to the lens or thermal imaging detector.
- ·Do not use the device in extreme conditions (e.g., excessive heat, cold,

dust, high humidity, or low air pressure). For detailed temperature and humidity requirements, refer to the product's specifications.

Do not touch the image sensor directly. Cover the sensor with a dust cap when not in use to protect it.

Battery capacity decreases in low-temperature environments. This is due to the battery characteristics, not a device fault.

·Use only power adapters provided by formal manufacturers.Refer to the product specifications for specific requirements.Do not connect multiple devices to a power adapter to prevent overheating or fire hazards.

·USB Compatibility

·Use only a dry, soft cotton cloth or lens cleaning paper to clean the lens to avoid scratches.

Do not connect multiple devices to a single power adapter to prevent overheating or fire hazards.

·The device supports connections only via USB Type-C interfaces.

If the device is damaged or malfunctioning, send it to the Kingnight after-sales service department for repair.

The device is designed for natural observation, field search and rescue, and high-temperature heat source monitoring.

Use the device only as described in the manual. The manufacturer and distributors are not responsible for damage caused by improper or unintended use.

Don't drop or subject the device to strong vibrations. Keep the device away from magnetic interference locations and do not install it on surfaces prone to vibration or impact locations, as this may damage the device.

Battery Safety

The device contains a battery that must not be disassembled, replaced, or modified by non-professionals. Doing so may result in explosion, fire, or chemical corrosion hazards.

•Charge the battery only in environments with temperatures between 0°C and 50°C.

If the battery malfunctions, contact after-sales service for replacement. Do not attempt unauthorized repairs or replacements.

If the battery leaks and liquid comes into contact with your skin or eyes, rinse thoroughly with clean water and seek medical attention immediately.

In case of battery fire, extinguish using foam fire extinguishers, dry powder extinguishers, or fire sand.

Do not immerse the product in water or get wet.

Don't place the product in or near extremely high temperatures, such as fires or heating appliances, as thismay cause the battery to explode or release flammable liquids or gases.

- Do not place the product in appliances like heaters, washing machines, or pressure vessels.
- Don't place the product in low-pressure environments, which could lead to battery explosion or leakage of flammable substances.
- If the product is equipped with an adapter, only use the supplied adapter.
- If not, ensure the power adapter or supply meets LPS (Limited Power Source) standards. Refer to the product label for specific power supply output parameters.
- Store the product indoors in a dry, shaded environment.
- Avoid exposing the battery to direct sunlight, potential rain, and submersion locations.
- Batteries are classified as toxic and hazardous waste. Dispose of them in compliance with applicable national laws, regulations, and standards.
- The product is not suitable for use in areas where children may be present.

Laser Safety

Avoid direct observation of the laser beam. Laser beams can cause glare, flash blindness, and afterimages. If the user is in operations requiring high safety standards, it needs to be noticed potentially interfering with visual.

- Do not direct the laser at human eyes to prevent eye damage.
- ·Laser protection can be achieved by wearing protective glasses.

Ensure the goggles' working wavelength covers the laser's peak wavelength, and the optical density (OD) exceeds 5.

- ·Avoid exposing skin and eyes to the laser beam to prevent burns.
- Direct exposure of the laser to combustible materials at close range may pose a fire risk. Maintain a safe distance during installation and operation.

After the laser is activated, do not aim it at glass, mirrors, or other highly reflective objects, as reflected lasers could damage the thermal imaging detector.

