

RFX



THERMAL  
MONOCULAR  
**POCKET  
K2**

User Manual v1.0

**5** YEAR  
WARRANTY  
Thermal Devices

**3** YEAR  
WARRANTY  
Digital Devices

**CUSTOMER  
SERVICE**

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info@rix-nv.com



We appreciate you choosing RIX.  
Please read the instruction manual carefully before using this product.  
Thank you and happy hunting!



**RIX**



# ▼ TABLE OF CONTENTS

<b>01.</b>	Overview	...01
<b>02.</b>	Features	...01
<b>03.</b>	Parameters	...02
<b>04.</b>	In the Box	...04
<b>05.</b>	Appearance	...05

<b>06.</b>	Power Supply	...06
<b>07.</b>	Buttons Operation	...07
<b>08.</b>	Power On/Off	...08
<b>09.</b>	Status Bar	...09
<b>10.</b>	Shortcut Function	...10

<b>11.</b>	Main Menu	...13
<b>12.</b>	App Description	...15
<b>13.</b>	Product Maintenance	...16
<b>14.</b>	Troubleshooting	...16

## 01 PRODUCT OVERVIEW

The POCKET K2 features advanced thermal imaging technology and high-sensitivity infrared detectors for exceptional outdoor night vision capabilities. With the ability to perform in all weather conditions, from sun to rain, the POCKET K2 is perfect for night hunting, observation, and geographical positioning. Plus, it offers a range of functions including photography, video recording, and more.

## 02 PRODUCT FEATURES

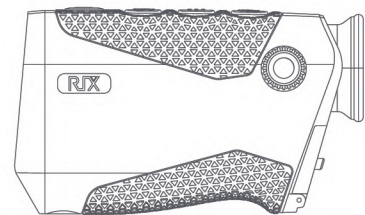
Sensor resolution:256x192	Sensor NETD:<25mK
Sensor frame rate:50Hz	Display screen: OLED 800x600
18650 replaceable battery	Light weight: about 0.44 lb
Small, compact and can be placed in a pocket	Ergonomics design, comfortable to use

## 03 PRODUCT PARAMETERS

POCKET K2		
Sensor	Type	VOx Uncooled
	Resolution, pixels	256x192
	Pixel pitch, $\mu\text{m}$	12
	NETD, mK	<25
	Frame Rate, Hz	50
Optics	Objective Lens, mm	9mm; F1.0
	Optic Zoom, x	1.7
	Field of View (H), degrees / yd @ 100 yd	19.4°/37.3yd
	Digital Zoom, x	1x/2x/4x
	Eye Relief, mm	13.5
Range Performance	Diopter Adjustment, D	-7 to +2
	Detection Range, m/yd	468m/512yd
Display	Type	OLED
	Resolution, pixels	800x600

POCKET K2		
Video Recorder	Video / Photo Resolution, pixels	800x600
	Video / Photo Format	.mp4 / .jpg
	Built-in Memory, GB	8
Wi-Fi	Wireless Protocol	Wi-Fi
	Frequency, GHz	2.4
Environmental Characteristics	Degree of Protection, IP code	IP67
	Operating Temperature Range, °F	-4 to +122
	Battery Type	18650
	Capacity, mAh	3200
	Operating Time on Battery Pack (at t=72°F), h	Up to 7
	External Power Supply	5V (Type-C USB)
Weight & Size	Dimensions, inch	4.9x1.8x2.9
	Weight, lb	about 0.44 (without battery)

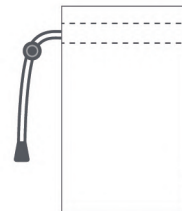
## 04 IN THE BOX



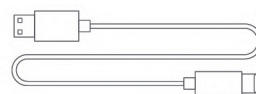
The Pocket Series Thermal Monocular K2



18650 Battery  
(in the device)



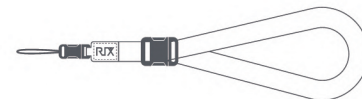
Carrying Case



USB Type-C Cable



Lens Cloth



Lanyard

### Note

The box also includes an instruction manual, a quick to use guide, and a thank-you letter.

## 05 PRODUCT APPEARANCE



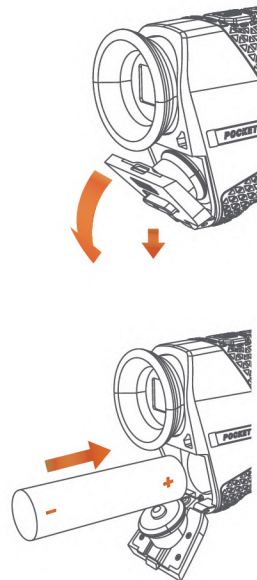
## 06 POWER SUPPLY

The POCKET K2 is powered by a replaceable 18650 battery.

- ▶ To open the battery compartment lid, push down on the latch.
- ▶ Install the battery into the compartment, positive (+) pole inward and negative (-) pole outward, as indicated by the symbols inside the battery compartment.
- ▶ After inserting the battery, press and push up on the latch to secure the battery cover.

### WARNING

- ▶ Please remove the battery if the device is not in use for a long time.
- ▶ Do NOT power the device with a modified or damaged battery.
- ▶ Please Note: The decrease in battery pack capacity under sub-zero temperatures is a normal occurrence and not a factory defect.
- ▶ Do not use the battery at a temperature above 50° C, as it may reduce the service life of the battery.



## 07 BUTTONS OPERATION

Button	Current Status	Short Press	Long Press
Power	Powered off	—	Power on the device
	Stand by	Wake up the device	
	Home screen	Standby	Power off the device
	Menu screen	Return to the home menu with saving changes	—
Zoom	Home screen	Adjust the magnification	Manual Image Correction
	Menu screen	Flip up	—
Menu	Home screen	—	—
	Menu screen	Adjust the parameters of a function	—
Video	Home screen	Start / Stop video recording	Take a photo
	Menu screen	Flip down	—

## 08 POWER ON/OFF

### Power On / Starting

1. Open the objective lens cap. Press and hold the lens cap and push it downward.
2. Long press the Power button for 3 seconds to turn on the device. The RIX logo will appear.

### Powering Off / Stopping

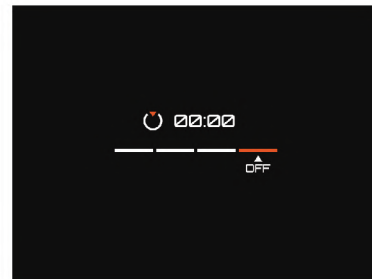
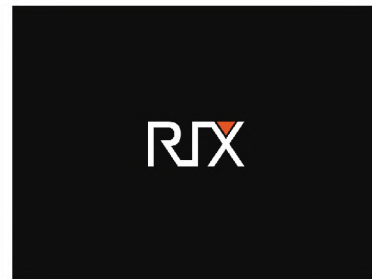
Long press the Power button for 3 seconds to turn off the device.

#### Note

Releasing the Power button at any time during this shutdown cycle will stop the shutdown process.

#### Warning

If using an external power supply, do not disconnect the power supply when saving data, otherwise the data may not be saved.

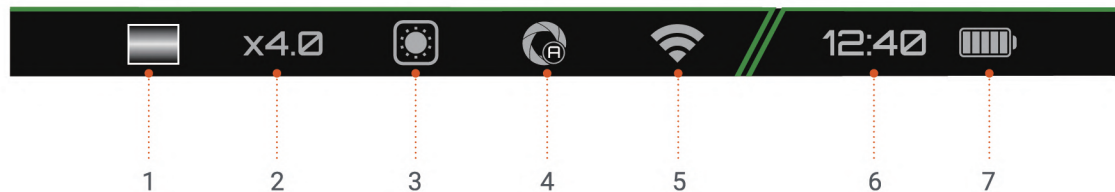


## 09 STATUS BAR

The status bar is located at the bottom of the screen and displays the operating status information of the device.

From left to right:

1. Image mode: White Hot (default), Black Hot, Red Hot, Color.
2. Digital zoom: 1×(default), 2×, 4×.
3. Weather mode: Sun, Rain.
4. Auto image correction mode: On/Off.
5. Wi-Fi connection: On/Off.
6. Clock
7. Battery Level



## 10 SHORTCUT FUNCTION

The shortcut functions can be directly used through buttons on the home screen.

### Digital Zoom (Zoom Button)

On the home screen, simply press the Zoom button to zoom in and out on the subject. The status bar provides a real-time display of the magnification level as you adjust it.

### Manual Image Correction (Zoom Button)

This function is effective for enhancing degraded or uneven images. By balancing the background temperature of the detector, calibration can eliminate image defects and improve overall quality.

If you feel that the image is bad, you can press and hold the Zoom button until hearing a clicking sound.

### Standby (Power Button)

If you are not currently using the device, but do not want to shut it down, you can use standby mode. This function can reduce device power consumption and extend battery life.

Briefly press the Power button to enter standby mode, then press the Power button again to exit standby mode.

### Image Mode (Menu Button)

Briefly press the Menu button to switch the image mode including white hot (default), black hot, red hot, color.

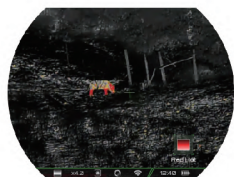




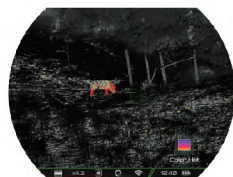
White Hot (default)



Black Hot



Red Hot



Color

### Photo/Video (Video Button)

#### ▶ Video Recording

Short press the Video button to start recording. A prompt box showing the recording time will appear in the upper right corner of the screen with a time format of HH:MM:SS (hour: minute: second). Short press the Video button again to stop and save the video recording.

#### ▶ Photo Taking

Long press the Video button to take a photo, and the screen will freeze with a photo icon flashing in the upper left corner.



#### Note

- ▶ The photos and videos taken will be saved on the built-in memory card respectively in the format of PIC\_HHMMSS.jpg (photos) and VIDEO\_HHMMSS.mp4 (videos). It is recommended to synchronize the device time and date through the app before using the photo/video mode. You can find specific operation instructions in the RIX App which is available to download on our website, [www.rix-nv.com](http://www.rix-nv.com).
- ▶ The maximum duration of a video recording file is 10 minutes. When the duration is more than 10 minutes, the video will be automatically recorded onto a new file.
- ▶ To download photos and videos, turn on the device to run, and connect it to a computer with the data cable. On your computer, Double-click MY COMPUTER on the Desktop Screen, find the device named "POCKET", and double-click to open the device named "POCKET\_K2" to access the captured media.
- ▶ You can easily optimize the storage space by either deleting or moving the media files to a storage device.

**To avoid damaged video footage, please turn off the device properly.**

## 11 MAIN MENU

On the home screen, press and hold the Menu button to open the menu screen. Choose functions by the Zoom and Video button, setting by the Menu button.

### Screen Brightness

Press the Menu button to set the screen brightness with a range of 1-5, with 3 being the default.

### Image Contrast

Press the Menu button to set the image contrast with a range of 1-5, with 3 being the default.

### Weather mode

Press the menu button to set the weather mode, choosing sun or rain.

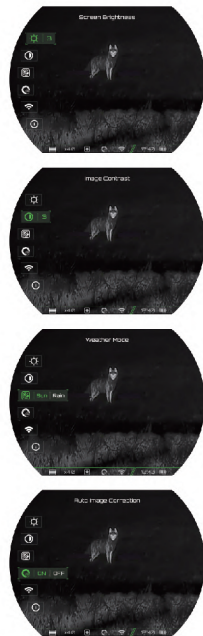
### Auto Image Correction

Press the menu button to set the auto image correction on or off.

When the function is on, the device will automatically correct the image according to the software algorithm. When the function is off, on the home screen, you can press the Zoom button to correct it manually.

#### Note

No matter the function is on or off, the manual image correction function can be used on the home screen.



## Wi-Fi

The device has a built-in Wi-Fi module and can connect to an external device (computer or smartphone) via Wi-Fi.

1. Press the menu button to choose on/off.
2. Search for the Wi-Fi named "POCKET\_K2\_XXXXXX" on a phone or computer.
3. Select the Wi-Fi and enter the password to connect. The initial password is 12345678.

After a successful connection to Wi-Fi, the device can be controlled via the mobile app.

#### Note

- ▶ You could change the name and password of the Wi-Fi in the app.
- ▶ In the app, find the My Device icon, and click it to enter the interface for settings.
- ▶ In the text box, enter and submit the new Wi-Fi name (SSID) and password.
- ▶ After submitting the changes, reset the device to activate them.

#### Info

Product information includes the product model, software version number, WiFi name, PN code, SN code, and FCC ID.



## 12 APP DESCRIPTION

The device comes with a dedicated app. By connecting the device to the app on a cell phone, tablet, or laptop you can enjoy real-time image transmission, perform device operations, and receive program updates. Download instructions for using the app from the official website, [www.rix-nv.com](http://www.rix-nv.com).

Users have the option to update the firmware of the device by utilizing the app or downloading the latest version from [www.rix-nv.com](http://www.rix-nv.com).

### ► About App

You can download and install the app on the official website ([www.rix-nv.com](http://www.rix-nv.com)) or by searching RIX+ in an app store.



Linktree



RIX+ Android



RIX+ IOS

## 13 PRODUCT MAINTENANCE

Prior to using the device, it is important to conduct a thorough technical inspection to ensure the following items are in proper working condition.

To remove dust and dirt from the metal and plastic parts, use a cotton cloth and gently wipe the surface clean.

Make sure that the 18650 battery being used is free from any bulges or deformations and that the plastic cover is not damaged.

## 14 PRODUCT TROUBLESHOOTING

Refer to the table below, which outlines potential issues that may arise during operation. For product issues that can not be remedied or are not listed below, please contact RIX Optics customer support by visiting [www.rix-nv.com](http://www.rix-nv.com).

Fault	Possible Causes	Solutions
The device cannot be started.	The battery is out of charge.	Charging
The device cannot be powered by an external power supply	The USB cable is damaged.	Replace the USB cable.
	The external power supply is insufficient.	If necessary, check the external power supply.
The image is too dark.	The screen is not bright enough.	Adjust the display brightness
The image quality is poor or the detection range shortens.	These problems are likely to occur when you use the device in harsh weather (such as sun, snow, rain, and fog).	
The device cannot connect to a mobile phone or computer.	The Wi-Fi password is incorrect.	Enter the correct password or reset the device back to factory setting.
	There are too many Wi-Fi networks in the range of the device, which may cause interference.	For a stable network connection, it is recommended to relocate the device to an area with a lower number of Wi-Fi networks.
Wi-Fi signals are lost or interrupted.	The device is beyond Wi-Fi coverage. There is blocking (such as concrete walls) between the device and the receiver.	Move the device to a place where you can receive Wi-Fi signals.
When the device is used at a low temperature, the imaging quality is poorer than that at a normal temperature.	At temperatures above 0°C, the temperature rise varies with the observed objects (environment and background) due to different heat conductivity coefficients. As a result, high-temperature contrast occurs, and the image quality is better. At low temperatures, the observed targets (background) usually cool down to a similar temperature because of reduced temperature contrast. Therefore, the image quality (details in particular) is poor, which is a characteristic of thermal imaging devices.	

