Thermal Monocular Camera

User's Manual



Foreword

General

This manual introduces the functions and operations of Thermal Monocular Camera (hereinafter referred to as "the Camera"). Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
ESD ESD	Electrostatic Sensitive Devices. Indicates a device that is sensitive to electrostatic discharge.
	Indicates dangerous high voltage. Take care to avoid coming into contact with electricity.
LASER RADIATION	Indicates a laser radiation hazard. Take care to avoid exposure to a laser beam.
© <u>∽∿</u> TIPS	Provides methods to help you solve a problem or save time.
D NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.1	Updated "Exporting File".	November 2022
V1.0.0	First release.	September 2022

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

• The manual is for reference only. Slight differences might be found between the manual and the

product.

- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Transportation Requirements

- Transport the Camera within the allowed humidity and temperature conditions.
- Do not fall, squeeze, violently vibrate or immerse the device in liquid when transporting. Gently pick and place the Camera when moving, prevent the internal equipment becoming damaged or cable connection becoming loose.
- Do not transport the Camera without package. Use the factory default package or material of equal quality to pack the Camera when transporting it, otherwise the Camera can become easily damaged.

Storage Requirements

- Store the Camera within the allowed humidity and temperature conditions.
- Do not place the device in a humid, dusty or extremely hot or cold site that has strong electromagnetic radiation or unstable illumination.
- Do not squeeze, violently vibrate or immerse the device in liquid.
- Do not mechanically vibrate or crash when storing.
- Store the Camera in a ventilated place that has no strong electromagnetic radiation.
- For long-term storage of the battery, make sure that it is fully charged every half year to ensure the battery quality. Otherwise, damage may occur.

Operation Requirements

A DANGER

- Prevent liquid from flowing into the Camera to avoid damage to the internal components.
- Do not stuff foreign materials into the Camera to prevent a short circuit which could result in the Camera being damaged or people becoming injured.
- Do not expose the device to high electromagnetic radiation or dusty environments.
- Do not aim the lens at the sun or any other bright light.
- Improper use or replacement of the battery may result in explosion hazard.
- Do not charge other battery types with the supplied charger. Confirm there is no flammable material within 2 m of the charger during charging.
- Make sure that the plug is properly connected to the power socket.
- Do not connect multiple devices to one power adapter, to avoid over-heating or fire hazards caused by overload.
- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.



- Do not dismantle the Camera. The internal components can only be repaired by a qualified professional. Dismantling it without professional assistance might cause water seeping in or might result in the Camera producing poor quality images.
- Operating temperature: -20 °C to +50 °C (-4 °F to +122 °F), and the operating humidity shall be 95% or less.

Maintenance and Repair Requirements

Anger

- Prevent liquid from flowing into the Camera to avoid damage to the internal components. In case the liquid enters the Camera, immediately stop using the Camera, cut off the power, and disconnect all the cables, and then contact your local customer service center.
- Use the accessories regulated by the manufacturer. The Camera should be maintained by qualified professionals.
- Make sure to cut off the power before cleaning the Camera, to prevent electric shock.

If the Camera malfunctions, contact your local customer service center. Do not dismantle the Camera.



- Clean the Camera body with a piece of soft dry cloth. For any dirt that is hard to remove, pick up a piece of clean and soft cloth, dip it into a little neutral detergent and gently wipe the dust away. After that, wipe away all the remaining liquid on the Camera with another dry cloth. Never use volatile solvents such as alcohol, benzene and thinner, or cleaners that are strong and abrasive. Otherwise, the Camera's surface coating will be damaged and its working performance will be encumbered.
- Save the factory package of the Camera. When the Camera malfunctions, pack the Camera with the factory package and send to the dealer.

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1 Product Introduction

1.1 Overview

The thermal monocular camera captures sharp thermal imaging at a fast frame rate for smooth, impeccable vision on running targets and from moving vehicles. Designed to increase situational awareness at any time of day, the camera can detect humans, animals, and objects in complete darkness, haze, or through glaring light, equipping law enforcement professionals, hunters, and outdoor enthusiasts with reliable thermal imaging in tough conditions. It is widely used in outdoor scenarios for hunting, rescue, animal observation, and more.

1.2 Functions

- Colorization Different colorization modes display different effects.
- Digital zoom
 Supports 1×, 2×, 3× and 4× digital zoom. The number might different depending on devices.
- Fire warning Tracks fires in real time.
- Range measurement Marks the top and bottom of the target, and the screen automatically displays the distance of the target from the camera.
- Hot point tracking
 Detects and marks the highest and lowest temperature point.
- Network

Supports network connection through the Wi-Fi. You can add the Camera through mobile app to realize functions, such as capturing, recording and parameter configuration.

- Storage Built-in storage (up to 256 GB), supports recording and capturing.
- Laser pointer

Turn on the laser pointer to indicate positions. Do not aim the light to eyes to avoid damages.

Automatic suspend and shutdown
 Supports setting time of automatic suspend and shutdown.

2 Structure

2.1 Packing List

Name	Quantity
Thermal Monocular Camera	1
Micro USB Cable	1
Charger	1
Camera Pouch	1
Quick Start Guide	1
Legal and Regulatory Information	1
Warranty Card	1

Table 2-1 Packing list

2.2 Device Description





Table 2-2	Button	description
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No.	Name	Description	
1	Power button	Press and hold to start or shut down the Camera.Press to enable or disable the suspend mode.	
2	Capture button	Press and hold to record videos.Press to capture images.	
3	Mode button	Press and hold to enter the main menu.Press to select the pseudo color.	

No.	Name	Description		
		Double-press to enable or disable the laser pointer.		
		Technical specification of the laser pointer:		
		◊ Wavelength: 650 nm		
		 ◊ Beam diameter < 15 × 20 mm (10 m) 		
	 Maximum average output power: 0.9 mW 			
4	Zoom button	 Press and hold to manually adjust the shutter. 		
		Press for digital zoom.		
		Laser can cause damages to eyes. Do not look directly at the laser		
		beam or observe the beam with optical devices when the laser is		
		on.		

Figure 2-2 Port description (M20)



Figure 2-3 Port description (M40&M60)



Table 2-3 Port description

No.	Name	Description	
1	Eyeshade	Protects the eyes from glare.	
2	Diopter adjustment knob	Adjust the diopter according to your eyesight.	
3	Tripod nut	For tripod installation.	
4	Protective cover	Dust prevention. Close the cover when not using the Camera.	
5	Charging indicator	 Red and green lights flashing alternately: charging error. Red light on: charging. Green light on: fully charged. Off: not connected to data cable to charge. 	
6	SD card slot	Install an SD card for local storage.	
7	USB port	Connects to USB data cable for charging.	
8	CVBS port	Connects to CVBS display.	

3 Basic Operation

3.1 Starting and Shutdown

Press and hold (1) to start or shut down the Camera; press (1) to suspend or weak up the Camera.

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After starting the Camera, remove the protective cover of the lens.

- When the Camera is shut down, press and hold (1) to start it.
- When the Camera is on, press and hold (1) to shut down it.
- When the Camera is on, press (1) to suspend the Camera.
- When the Camera is in suspend mode, press (1) to weak up it.

3.2 Configuring the Camera

3.2.1 Menu Description

When the Camera is on, press and hold () to enter the main menu. Function of all buttons are as follows.

- Press (2) to move upward the cursor.
- Press (to move downward the cursor.
- Press 🕐 to exit.



Figure 3-1 Menu description

3.2.2 Image Adjustment

3.2.2.1 Adjusting Diopter

To get clear images, rotating the diopter adjustment knob to fit your eyesight.

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For the first-time use, adjust the diopter before configuring the functions.

<u>Step 1</u> Aim the lens at the target, and then make your eyes close to the eyeshade.

<u>Step 2</u> Adjust clockwise or counterclockwise the knob according to your eyesight.



3.2.2.2 Setting Colorization

Select the colorization, which adds color to the thermal image and uses color to indicate the temperature.

<u>Step 1</u> On the main menu, press @ or (a) to select **Colorization**.

<u>Step 2</u> Press (Section to the **Colorization** configuration screen.

- <u>Step 3</u> Press (a) or (a) to select the colorization.
 - White Hot: The objects with high temperature are white. The higher the temperature, the brighter the color.
 - Alarm: The objects with high temperature are red. The objects can stand out.
 - Iron Red: The objects with high temperature are red. The higher the temperature, the brighter the color.
 - Black Hot: The objects with high temperature are black. The higher the temperature, the darker the color.
- <u>Step 4</u> Press (Section States the configuration.

Figure 3-3 White hot



Figure 3-4 Alarm



Figure 3-5 Iron red



Figure 3-6 Black hot



3.2.2.3 Setting Digital Zoom

Digital zoom helps to zoom in the image. On the viewing screen, press (a) to do digital zoom, and the image changes.

3.2.2.4 Setting External Display

The camera connects to PAL screen to zoom in and expand the output images for you to check the details.

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The port of the external screen is connected to the CVBS port of the Camera.

<u>Step 1</u>	On the main menu, press	Ø	or	٩	to select Screen Mode.
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<u>Step 2</u> Press (S) to go to the **Screen Mode** configuration screen.

<u>Step 3</u> Press (a) to select **PAL**.

- <u>Step 4</u> Press B to save the configuration.
- Step 5Connect the external screen to the Camera through the CVBS port.The external screen will display the images from the Camera.

3.2.3 Setting Start Bar Display

- <u>Step 1</u> On the main menu, press 🞯 or 🔘 to select **Start Bar**.
- <u>Step 2</u> Press (Section 5) to go to the **Start Bar** configuration screen.
- <u>Step 3</u> Press (a) to select **On** to display the start bar; select **Off** to hide the start bar.

lcon	Name	Description
(•	Wi-Fi	When the Camera is connecting to Wi-Fi, the icon is displayed.

Table 3-1 Description of start bar

lcon	Name	Description
111	SD card status	 White icon: SD card is correctly installed. Red icon: The memory of the SD card is full. Red icon with "X" mark: The SD card is not installed. Red icon with "!" mark: The SD card runs into fault. The screen displays formatting prompt.
1X	Digital zoom	Supports $1 \times$, $2 \times$, $3 \times$ and $4 \times$ digital zoom. The number might different depending on models.
	Battery level	Displays the battery level in real time.

<u>Step 4</u> Press $\textcircled{\otimes}$ to save the configuration.

3.2.4 Setting FFC Mode

With FFC (Flat-Field Calibration), the thermal image can be optimized, and you can easily find out temperature changes. You can set the FFC mode from **Auto** and **Manual**.

- <u>Step 1</u> On the main menu, press @ or @ to select **FFC Mode**.
- <u>Step 2</u> Press (Section 5) to go to the **FFC Mode** configuration screen.
- Step 3 Select the FFC mode.
 - Auto: The camera calibrates image automatically every certain period.
 - 1. Press (a) to select **Auto**.
 - 2. Press 🛞 to confirm.

The camera calibrates image automatically.

- Manual: Calibrate the image manually as needed.
 - 1. On the main menu, press 🔘 to select 📕
 - 2. Press (Section 2) to calibrates the image manually.

3.2.5 Setting Fire Warning

After enabling the fire warning function, the camera tracks fires in real time.

- <u>Step 1</u> On the main menu, press 🞯 or 🔘 to select **Fire Warning**.
- Step 2 Press 🛞 to go to the **Fire Warning** configuration screen.
- Step 3 Press (a) to enable the fire warning function, and then select the sensitivity.
 - Off: The fire warning function is disabled, and the Camera will not track fires in real time.
 - High, middle, low: The fire warning function is enabled, and you can select the sensitivity from **High**, **Middle**, and **Low**.

<u>Step 4</u> Press (Section Step 4) Press (Sectio

3.2.6 Setting Buzzer

3.2.6.1 Buzzer

Turn on or off the buzzer for starting and shutting down the Camera. <u>Step 1</u> On the main menu, press or (a) to select **Buzzer**.

- <u>Step 2</u> Press (Section 5) to go to the **Buzzer** configuration screen.
- <u>Step 3</u> Press (a) to select **On** to turn on the buzzer; select **Off** to turn off the buzzer.
- Step 4 Press
 Step 4♦ Press It to save the configuration.♦ After turning on the buzzer, you can hear a beep when starting or shutting down the Camera.

3.2.6.2 Key Buzzer

Turn on or off the buzzer for pressing keys.

- <u>Step 1</u> On the main menu, press 💿 or 🔘 to select **Key Buzzer**.
- <u>Step 2</u> Press 🛞 to go to the **Key Buzzer** configuration screen.
- <u>Step 3</u> Press (a) to select **On** to turn on the key buzzer; select **Off** to turn on the key buzzer.
- <u>Step 4</u> Press (Section to save the configuration.

After turning on the buzzer, you can hear a beep when pressing a key.

3.2.7 Setting Ranging Mode

After setting the ranging mode, the Camera can measure the range towards targets.

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To guarantee the measurement accuracy, keep your hand steady when measuring the range.

- <u>Step 1</u> On the main menu, press @ or @ to select **Ranging Mode**.
- <u>Step 2</u> Press (Section by to go to the **Ranging Mode** configuration screen.
- <u>Step 3</u> Press (a) to select the ranging mode.
 You can select from **Rabbit**, **Wolf**, **Human**, **Pig** and **Customize**. The default heights of wolf, human rabbit and pig are 1.2 m, 1.8 m, 0.3 m, and 0.9 m respectively.
- <u>Step 4</u> Press (Section States the configuration.
- Two green lines are displayed on the screen.
- <u>Step 5</u> Press or (a) to move the green lines to the top and bottom of the target to get the distance between the target and the Camera.



Figure 3-7 Ranging Mode

3.2.8 Setting Scene Mode

- <u>Step 1</u> On the main menu, press @ or @ to select **Scene Mode**.
- <u>Step 2</u> Press (Section by the Scene Mode configuration screen.
- <u>Step 3</u> Press (a) to select the scene mode from **Standard** and **Search**.
 - Standard: Used for daily observation.
 - Search: Stands out the targets with high temperature, which makes it easier to find out the targets.

<u>Step 4</u> Press (Section to save the configuration.

3.2.9 Setting Hot Point

Tracks the points with the highest and lowest temperature in real time.

- <u>Step 1</u> On the main menu, press @ or @ to select **Hot Point**.
- <u>Step 2</u> Press (Section 5) to go to the **Hot Point** configuration screen.
- <u>Step 3</u> Press (a) to enable or disable **Hot Point**.
- <u>Step 4</u> Press (Section to save the configuration.

After enabling **Hot Point**, the hot and cold point icons will automatically locate at the points with the highest and lowest temperature in the image.

3.2.10 Setting USB Mode

- <u>Step 1</u> On the main menu, press 🞯 or 🔘 to select **USB Mode**.
- <u>Step 2</u> Press 🛞 to go to the **USB Mode** configuration screen.
- <u>Step 3</u> Press (a) to select the USB mode.
 - Mass: The Camera can be used as a storage device.
 - UVC: Connect the Camera to a computer to view live images through the Client.
 - Off: Charge the Camera.
- <u>Step 4</u> Press 🛞 to save the configuration.

3.2.11 Setting Wi-Fi Connection

After enabling Wi-Fi connection, you can connect your phone to the hotspot of the Camera, and then access the Camera with the app.

The frequency bands and modes and the nominal limits of transmitted power (radiated and/or conducted) applicable to this radio device are the following:

Wi-Fi 2.4 GHz (2.4 GHz to 2.4835 GHz)	20 dBm
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Some cameras will automatically disable the Wi-Fi function when the battery level is lower than 15%. <u>Step 1</u> Scan the QR code with your smart phone to install the app. Figure 3-8 QR code



Android





- <u>Step 2</u> On the main menu, press 🞯 or 🛞 to select **WiFi**.
- Step 3 Press (S) to go to the WiFi configuration screen.
- <u>Step 4</u> Press (a) to select **On** to enable the Wi-Fi function, and then press (a).
- <u>Step 5</u> Press (S) to save the configuration.
- <u>Step 6</u> Enable the Wi-Fi of your smart phone, and then connect to the hotspot of the Camera.
 - Wi-Fi name: Model number + serial number.
 - Wi-Fi password: The last 8 digits of the serial number.

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You can find the serial number on the Camera and the label of the packing box.

Step 7Log in to the app. The password is the last 8 digits of the serial number.Add devices according to the prompt.

3.2.12 Setting Suspend Mode

- <u>Step 1</u> On the main menu, press @ or @ to select **Suspend Mode**.
- Step 2 Press (Section 5) to go to the Suspend Mode configuration screen.
- <u>Step 3</u> Press (a) to select the suspend mode.
 - Automatic: When the idle time is up to the configured value, The Camera will automatically suspend and the screen will turn off automatically.
 - Smart: When the distance detector does not detect an eye within the configured period, The Camera will automatically suspend and the screen will turn off.
- Step 4 Set the auto suspend time.
 - 1. Press (a) to select **Auto Suspend**.
 - 2. Press () to go to the **Auto Suspend** configuration screen.
 - 3. Press (a) to select the auto suspend time.
 - Off: Disable auto suspend.
 - 1 Min, 3 Min, 5 Min, 10 Min: The Camera will automatically suspend in the configured time.
- $\underline{Step 5} \quad \text{Press} \ \textcircled{\otimes} \ \text{to save the configuration.}$

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When the Camera is in suspend mode, press the power button to weak up it.

3.2.13 Auto Shutdown

- <u>Step 1</u> On the main menu, press 🞯 or 🝭 to select **Auto Shutdown**.
- <u>Step 2</u> Press (See to go to the **Auto Shutdown** configuration screen.
- <u>Step 3</u> Press (a) to set the auto shutdown time.
 - Off: Disable the auto shutdown.
 - 1 Min, 3 Min, 10 Min, 30 Min: The Camera will automatically shut down in the configured time.
- <u>Step 4</u> Press (S) to save the configuration.
 - After finishing the auto shutdown settings, the Camera will suspend first, and then shut down.

3.2.14 Adjusting Brightness

You can adjust the screen brightness, including 3 levels: low, medium, and high.

- <u>Step 1</u> On the main menu, press 🞯 or 🝭 to select **Brightness**.
- <u>Step 2</u> Press (Section by the Brightness configuration screen.
- <u>Step 3</u> Press (a) to select the brightness level from **Low**, **Medium**, and **High**.
- <u>Step 4</u> Press (Section to save the configuration.

3.2.15 Setting DPC

After enabling DPC (Defective Pixels Correction), you can correct the defective pixels in the image.

- <u>Step 1</u> On the main menu, press @ or @ to select **DPC**.
- <u>Step 2</u> Press 🛞 to go to the **DPC** configuration screen.
- Step 3 Press (a) to set DPC.
 - Auto: The Camera automatically corrects the defective pixels in the image.
 - 1. Select Auto.
 - 2. Press B to start the auto correction.
 - 3. Follow the screen instructions to close the lens cover.
 - 4. Press () to save the configurations.
 - Manual: You need to correct the defective pixels manually.
 - 1. Press () to select X-axis and Y-axis.
 - 2. Press and hold (a) or (a) to calibrate the defective pixels.
 - 3. Press and hold () to save the configuration.

The center of the cursor is the position of the defective pixel.

• Restore: The DPC configuration is restored to the primary state.

3.2.16 Setting Language

You can select the language as needed.

- <u>Step 1</u> On the main menu, press @ or @ to select **Language**.
- <u>Step 2</u> Press (Section by the Language configuration screen.

Step 3 Press (a) to select the language as needed.

You can select the language from English, German, Spanish, Italian, Czechish, and French

<u>Step 4</u> Press (Section to save the configuration.

3.3 Video and Snapshot

You can manually record videos and capture images when the Camera is installed with an SD card.

3.3.1 Recording Videos

On the viewing interface, press and hold (a) for 3 seconds to start recording a video. The OSD flashes red on the screen and the recording time is display.

Press and hold (a) again for 3 seconds to stop the recording. When the recording stops, the recording time will display normally.

3.3.2 Capturing Images

On the viewing page, press (a) to capture images. The screen will display an icon when the capturing succeeds.

3.3.3 Exporting File

Exports the recorded and captured files.

<u>Step 1</u> Connect the Camera to the computer through USB data cable.

The driver will automatically be installed for first-time connection.

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- Connect the cables before starting the Camera. Do not hot swap the USB port of the Camera.
- Select **Mass** on the **USB Mode** configuration screen after connecting the Camera to the computer.
- <u>Step 2</u> On the computer desktop, double-click **My Computer**, and then open the Camera disk at a mobile storage device.
- Step 3Select the files to export and copy them to the computer.The specific computer client is required for playing the exported files.
- <u>Step 4</u> Disconnect the USB data cable with the computer.
 After connecting the Camera to the computer, images can be displayed on the Camera, but the functions of recording and capturing will not be available.

3.4 Charging

The start bar will display battery information after the Camera starts. When the battery is low, charge the Camera timely to make sure the normal function.

• When charging the Camera, the temperature is required at 0 °C to 45 °C (32 °F to 113 °F).

Otherwise the charging function will be automatically disabled.

- Charge the Camera with the USB data cable that comes with the delivery.
- <u>Step 1</u> Open the sealing cover of the USB port when charging.
- <u>Step 2</u> Connect the USB cable to the USB port to charge the Camera. The charging indicator states:
 - Red and green lights flashing alternately: charging error.
 - Red light on: charging.
 - Green light on: fully charged.
 - Off: not connected to data cable to charge.

4 System Update

Update the Camera through the SD card.

- <u>Step 1</u> Insert an SD card into the SD card slot.
- <u>Step 2</u> Press (a) to select **Mass** on the **USB Mode** configuration screen.
- <u>Step 3</u> Connect the Camera to the computer, and then copy the update program to the SD card.
- Step 4Press Zoom button and Power button at the same time to start updating.After 2-3 minutes' blue screen, the camera restarts automatically, and the live image is
 - display.

Appendix 1 Compliance Notice

The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.