ThermTec

Faun

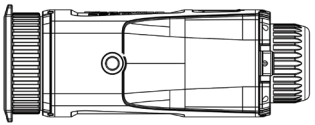
Thermal Imaging Monocular
Faun Series
User Manual

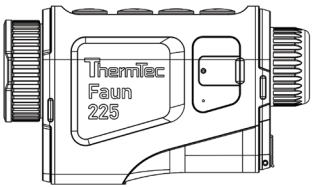


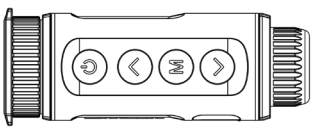
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V1.0







RoHS

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About This Manual

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This Manual is applicable to Thermal Imaging Monocular.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons.

REGULATORY INFORMATION

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Directive 2014/53/EU(RED), Directive 2014/30/EU(EMC), Directive 2014/35/EU(LVD), Directive 2011/65/EU(RoHS).

The full text of the EU declaration of conformity is available at the following internet address: https://www.thermeyetec.com/declaration-of-conformity/

Frequency Bands and Power (for CE). The frequency bands and transmitting power (radiated and/or conducted) nominal limits applicable to the following radio equipment are as follows: Wi-Fi 2.4 GHz (2.4 GHz to 2.4835 GHz), 17dBm

For the device without a supplied power adapter, use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements.

For the device without a supplied battery, use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements.

This product contains a battery and it is in conformity with the Regulation (EU) 2023/1542. The battery cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information.



The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), or lead (Pb). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

This product and - if applicable - the supplied accessories too are marked with "UKCA" and comply therefore with the following directives: Radio Equipment Regulations 2017, Electromagnetic Compatibility Regulations 2016, Electrical Equipment (Safety) Regulations 2016, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

This product and - if applicable - the supplied accessories too are marked with "RoHS" and comply therefore the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("RoHS recast" or "RoHS 2").



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



Directive 2006/66/EC and its amendment 2013/56/EU (Battery Directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see:www.recyclethis.info.

SAFETY INTRODUCTION

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. Please read all the safety information carefully before using.

Transportation

- Keep the device in original or similar packaging while transporting it.
- Keep all wrappers after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and the company shall not take any responsibilities.
- Do not drop the product or subject it to physical shock. Keep the device away from magnetic interference.

Power Supply

- If a power adapter is provided in the device package, use the provided adapter only. If no power adapter is provided, ensure the power adapter or other power supply complies with Limited Power Source. Refer to the product label for the power supply output parameters.
- Make sure 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.
- The power delivered by the charger must be between min. 10 Watts required by the radio equipment, and max. 10.4 Watts in order to achieve the maximum charging speed.

Battery

- The device supports removable li-ion battery. The battery rated voltage and capacity is 3.6 V/3300 mAh.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type. Replace with the same or equivalent type only.

- Batteries of improper size cannot be installed, and may cause abnormal shutdown.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Please purchase the batteries recommended by the manufacturer if necessary.
- The purchased batteries by users need to comply with the relevant international standards about battery safety (e.g. EN/IEC standards).
- Use the battery provided by qualified manufacturer. Refer to the product specification for detailed battery requirements.
- Dispose of used batteries according to the instructions.
- CAUTION: Risks of short circuit, fire, or explosion if the battery is damaged. Frequent use, dropping, impact, corrosion, or compression of the battery may cause damages including cracked casing, detached plates, or leakage of internal liquid or gas, etc.
- If the battery is damaged, stop using it immediately and dispose of it according to the instructions.
- Remove the battery if you do not use the device for a long time.
- For long-term storage of the battery, make sure it is fully charged every 2 months to ensure the battery quality. Otherwise, damage may occur.
- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.
- Make sure the battery temperature is between 0℃ to 50℃ (32℉ to 122℉) when charging.
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature or low air pressure environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Confirm there is no flammable material within 2 m of the charger during charging.
- DO NOT place the device with battery or the battery alone near heating or fire source. Avoid direct sunlight.
- DO NOT place the battery in the reach of children.
- DO NOT swallow the battery to avoid chemical burns.

- This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Maintenance

- If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- Make sure that the power has been disconnected before device teardown and repair by professionals.
- Check the optical surfaces of objective lens, eyepiece, rangefinder, etc. If necessary, remove dust and sand from the optics using tools and solvent designed especially for this purpose (it is preferable to use a non-contact method).
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.
- Wipe the exterior surfaces of metal, plastic, and silicone parts with a clean and soft cloth. Do not use chemically active substances, solvents, etc. as these may damage the paint.

Using Environment

- Make sure the running environment meets the requirement of the device. The operating temperature shall be -20 °C to 50 °C , and the operating humidity shall be from 5% to 95%.
- 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.
- Place the device in a dry and well-ventilated environment.
- When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out.

- Avoid equipment installation on vibratory surface or places subject to shock (neglect may cause equipment damage).
- This equipment is not suitable for use in locations where children are likely to be present.

Emergency

- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

1 Introduction

1.1 Device Description

Faun 215/225 thermal imaging Monocular is equipped with 20mK high-sensitivity detector with the resolution up to 256×192, a 1024×768 high-definition AMOLED display, providing a clear view over long distances in harsh environments, poor visibility, or even total darkness. Faun 215/225 allows users to see through obstacles that hinder the detected target,In addition, it's easy to connect to our mobile application to achieve live view and share your findings.

Faun 215/225 thermal imaging Monocular facilitates applications in a wide range of fields, including Night hunting, Observation, Rescue operations, Hiking and traveling, etc.





1.2 Features

- 256*192 thermal resolution, NETD less than 20mK
- Excellent handheld ergonomic design for a perfect operating experience
- Various colour palettes for customizable use
- Advanced AI algorithm suitable for diverse distance measurements simultaneously
- Incomparably simple UI interface
- Up to 32GB storage capacity
- 1024*768 resolution with a 0.39-inch OLED display
- Replaceable lithium batteries provide up to 10 hours of continuous work
- A variety of imaging modes including forest, target, and outline

1.3 Application Scenarios

- Animal Observation
- Outdoor Adventure
- Security Law Enforcement
- Emergency Search and Rescue

1.4 Appearance



NO.	Comments
1	Diopter knob
2	AI Range/Palette change/Down button
3	Confirm/Save and exit to sub-menu
4	E-Zoom/Record/Capture/Up button
5	Power button/Standby/Image correction
6	Lens focus knob
7	Lens cover
8	Battery slot
9	USB Port

2 Packing List



Faun device (x1)



User manual (x1)



Lithium battery (x1)



USB cable (x1)

3 Specifications

Model	Faun 215	Faun 225
Microbolometer		
Type	Uncooled	
Resolution	256×192	
Pixel pitch	12μm	
NETD	⩽20mK	
Spectral range	8-14μm	
Frame rate	50Hz	
Detection range	750m	1300m
Optics		
Objective lens	15mm F0.9	25mm F0.9
Field of view	11.7°×8.8°	7.0°×5.3°
m @100m	20.4×15.4	12.3×9.2
Magnification	2.2X	3.6X
Digital zoom	1.0-4.0X	
Eye relief	40mm	
Exit pupil	6mm	
Diopter	±5D	
Display		
Type	AMOLED	
Resolution	1024×768	
Display size	0.39 inch	
Color palette	7	
Image mode	Forest/Target	

Function		
PIP	Yes	
Image calibration	Auto/Manual	
Photo / Video playback	Yes	
Language	EN	
Inbuilt Memory	32GB	
Audio	Yes	
AI Distance Measurement	Yes	
Heat Track	Yes	
Real-time Notification	Yes	
OSD Recording	Yes	
EIS	Yes	
Local Album	Yes	
Battery		
Internal battery	18650×1	
Battery life	10h	
Interface		
Type C	Charging/Data	
Hotspot	Yes	
Environment		
Working temperature	-20°C to +50°C	
Protection level	IP67	
Weight, g	370±5	373±5
Dimension,mm	148(L)×57(W)×86.5(H)	
Accessories		
External cable	USB cable	
Other accessories	Battery	

4 Operation Guide

4.1 Charging

Here are two methods we could take to charge the device. Device Charging and Battery Charging.

Device Charging:

Connect the device and power adaptor directly with a type-C cable to power on the device. Alternatively, connect the device and PC to export files. Follow the below steps to charge the battery:



- Lift the cover from the USB port.
- Plug the cable provided into the USB port.
- Plug the opposite end of the cable into a USB power source.

Battery Charging:

Faun series have adopted replaceable and changeable directly, from which dramatically improves the device life. ble battery design. The batteries could be taken off and charged.



Note: The battery should be fully charged prior to use. The battery is supposed to be taken out for long time non-using occasions.

4.2 Power on/off

Press and hold the power button to power on/power off the device.



4.3 Buttons and Controls

Before entering the main menu			
Icon	**Short Press**	**Press and hold on**	**Single click**
	Standby mode	On/Off	Image Calibration
	Zoom in/out	Record	Capture
	AI Laser rangefinder	N/A	Palette change, including outline mode
	Main menu	PIP On/Off	N/A

After entering the main menu			
Icon	**Short Press**	**Press and hold on**	**Single click**
	Exit to Previous menu	On/Off	Image Calibration
	Move up	Continuously moving upward	N/A
	Move down	Continuously moving downward	N/A
	Confirm	save and exit Sub-menu	N/A

4.3.1 Lens adjustment

Diopter adjustment



Lens adjustment



4.4 Main menu

Single click the M button to enter the main menu. After the entry of Main Menu, short press the M button for the operation of "Confirmation", and long press the M button for the operation of "Save and Exit". Pressing up and down button is the operation of moving the cursor.

Main menu function descriptions:

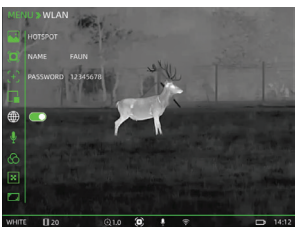
Image Set

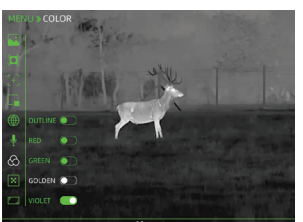




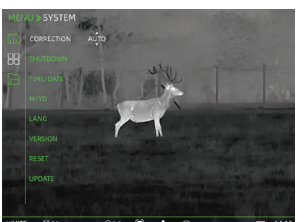
- Single click the M button to enter the main menu.
- Select the Image Set option with the ^ / v button. Short press the M button to enter Image Set.
- The icon will be turned into blue when Image set is selected.
- Set the parameters including Sharpness, Contrast, Brightness, Denoise mode as needed. These parameters are ranged from 1-10, Mode includes the forest and target

EIS		• Turn on the EIS function to reduce the impact of body shaking on the image and keep the image stable when observing distant targets.
TRACKING		• Single click the M button to enter the main menu. • Select the TRACKING option with the / button. Short press M button to turn on or off the TRACKING function, the heat tracking is to mark the target with the highest temperature in real time in the screen.

PIP		• Single click the M button to access the main menu. • Select the PIP option with the ^ / v button. Short press M button to turn on or off the PIP function. • After turn on the function, in the picture, the image is 2x enlarged from the center of the cross.
WLAN		• Single click the M button to enter the main menu. • Select the WLAN option with the ^ / v button. • Short press the M button to turn on or off the device's hotpot, after turning on the hotpot, the device could be connected with the App.

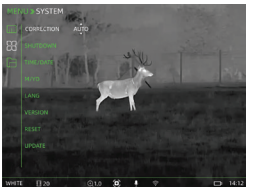
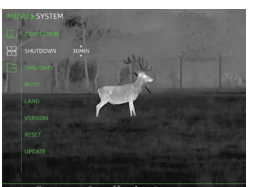
MIC		• Single click the M button to enter the main menu. • Select the MIC option with the ^/v button. Short press M button to turn on or off the mic function.
COLOR		• Single click the M button to access the main menu. • Select the COLOR option with the ^/v button. Short press M button to • access color setting. including the Outline/Red/Green/Golden/Violet function.

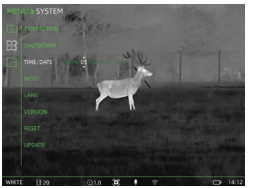
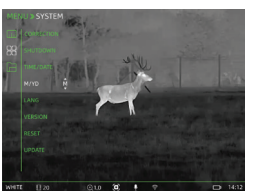
BLIND PIXEL		• Single click the M button to access the main menu. • Select the BLIND PIXEL option with the ^/v button. Short press M button to confirm. • After entering the option,The blind pixel in the picture can be replaced. We could replace bind pixels, save the current settings or cancel it.
OLED		• Single click the M button to access the main menu. • Select the OLED option with the ^/v button. Short press M button to confirm. • In the function you could change the brightness or color of the OLED.

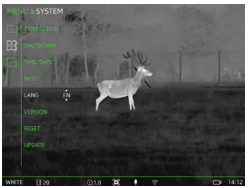
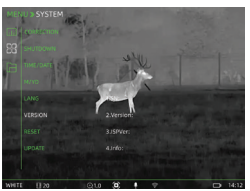
LRF		• Single click the M button to access the main menu. • Select the LRF option with the ∧ / ∨ button. Short press M button to confirm.
SYSTEM		• Single click the M button to access the main menu. • Select the SYSTEM option with the ∧ / ∨ button. Short press M button to confirm. • In System setting you could change the setting including the Correction/ Shutdown/Time etc.

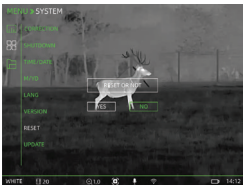
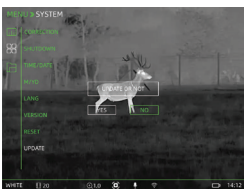
FILE		• Single click the M button to access the main menu. • Select the FILE option with the ^ / v button. Short press M button to confirm. • In the File setting you could check the image or the records.

4.4.1 System setting

SYSTEM	CORRECTION	The image correction mode could be set by Auto or Manual. 
	SHUT DOWN	The device could be set to shutdown after 30mins, 60mins and 90mins, or you could turn off the function. 

SYSTEM	TIME/ DATE	Time and Date could be set here. 
	M/YD	The measuring distance unit could be set by meter or yard. 

SYSTEM	**LANG**	Here just can be set in English 
	VERSION	

SYSTEM	**RESET**	Here can reset the machine or not choose to reset the machine system. 
	UPDATE	You can adjust and upgrade the device system. 

4.5 App Download

You may download the "ThermTec Outdoor" APP through the QR code shown on the packing box, user manual or below.

Download on the App Store

GET IT ON Google Play

- Turn on the hotpot of the device
- Connect mobile client with device's hotspot.
- After the connection, you could control devices freely with APP (ThermTec Outdoor).

4.6 Firmware upgrade

4.6.1 Upgrade via APP

- Open ThermTec Outdoor APP.
- Turn on the hotspot of the device, and connect it with the Mobile phone.
- Select Update on the menu options.
- The downloading and upgradation would be a continuous process if there is an update.
- After finishing the update, the device will reboot.
- Enter version to check firmware version.

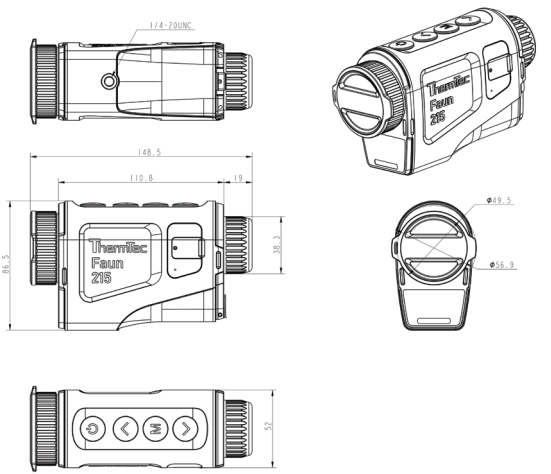


4.6.2 Upgrade via PC

- Please download corresponding upgrading package from official website. www.thermeyetec.com. Connect the device to PC via Type-c data cable.
- Copy the related updating firmware to the storage file of Faun. Press buttonto select Update icon, and the system will prompt “Update”.
- Enter version to check firmware version.

5 Technical Data

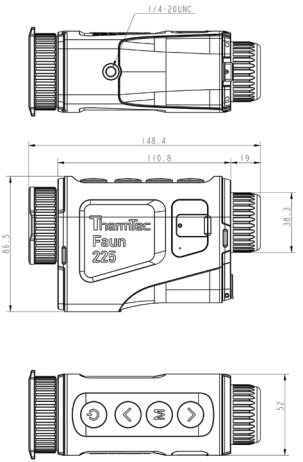
5.1 Product Size & Drawing



FAUN 215

5 Technical Data

5.1 Product Size & Drawing







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