ThermTec

IBEX

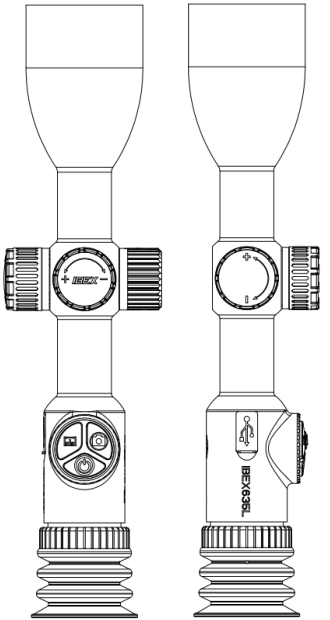
Thermal Imaging Scope
Ibex Series
User Manual



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V4.0



CE UK CA RoHS

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Legal Information

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About this Manual

The Manual includes instructions for using and managing the product, pictures, charts, images and all other information hereinafter are for explanation and description only. The information contained in the Manual is subject to change, without notice due to firmware updates or other reasons. Please find the latest version of this Manual at the ThermTec website (https://www.thermeyetec.com).
Please use this Manual with the guidance and assistance of professionals trained in supporting the product.

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In the event of any conflicts between this manual and the applicable law, the latter prevails.



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 (2.4GHz to 2.4835GHz), 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°C to 50°C (32°F to 122°F) 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

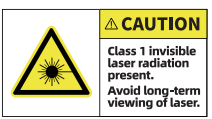
- Make sure the running environment meets the requirement of the device. The operating temperature shall be -20 ℃ to 50 ℃ , and the operating humidity shall be from 5% to 95%.
- DO NOT expose the device to high electromagnetic radiation or dusty environments.
- DO NOT aim the lens at the sun or any other 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.

Laser



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. The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the laser ranging function, make sure no human or inflammable substances are in front of the laser lens. Do not place the device where minors can fetch it. According to IEC 60825-1:2014, EN 60825-1:2014+A11:2021, and EN 50689:2021, this laser product is classified as Class 1 laser product and consumer laser product.

1 Introduction

1.1 Device Description

The IBEX Thermal Imaging Scope delivers exceptional performance: it has a high-sensitivity detector (less than 18mK, up to 640×512 resolution) for sharp imaging in tough conditions, a built-in LRF module for accurate ranging up to 1000m, and a 1600×1200 OLED display for long-distance views—even in harsh environments, low visibility, or total darkness. It lets users see through target-obscuring obstacles (e.g., light foliage) and calculate target distance precisely, connects seamlessly to a mobile app for live viewing and sharing, and with its user-friendly design (intuitive controls, simple interface), it' s ideal for beginners too.

IBEX thermal imaging scope facilitates applications in a wide range of fields, including observation, night hunting, rescue operations, hiking, traveling, etc.





1.2 Features

18mK Sharp Clarity

With NETD < 18 mK, a 50 Hz refresh rate, and 1600x1200 0.5'' AMOLED display, IBEX captures subtle temperature differences, cosistently delivering smooth and detailed imagery.

Integrated LRF Design

The LRF-integrated all-in-one streamlined design enhances visual appeal and structural strength while maintaining excellent optical performance, offering laser ranging capability up to 1000m.

Thermal Super Resolution

Combining optical magnification with continuous digital zoom up to 14.8x, empowered by super-resolution algorithm, it delivers ultra-detailed images without any loss of quality.

Replaceable & Durable Batteries

Two replaceable 18650 batteries ensure durable operation, with each providing up to 6 hours of continuous use.

Central Turret Focus System

The unique central turret focus system makes it easier and more comfortable to focus compared to traditional focusing design.

Consistently Clear & Stable Image

ThermTec AI calibration reduces shutter frequency, minimizes image freezing and ensures stable and consistent images over changing environments.

Accurate Long-Range Shooting

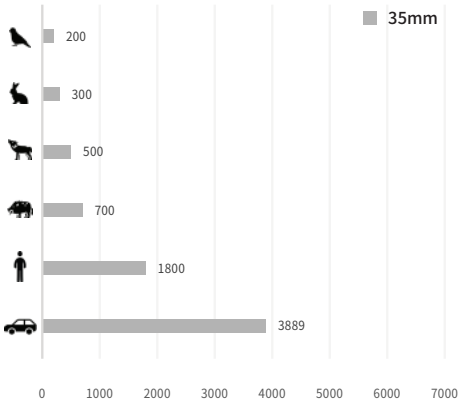
The ballistic calculator optimizes the aiming process of distant targets with automatic angle compensation analysis and custom impact reticles.

Intuitive Operation Design

The scratch-resistant aluminum alloy construction makes it lightweight and compact, with tactile buttons and an independent lens cover enhancing operational comfort.

1.3 Detection Range

The illustration below shows the comparative range performance of the device with different lens configurations. The data is based on detecting a car of 4m, a man of 1.8m tall, a wild boar of 0.7m tall, a wolf of 0.5m tall, a rabbit of 0.3m tall and a bird of 0.2m tall.



1.4 Cautions

CAUTION

Avoid hard objects.

Do not aim the lens directly at the sun or high-temperature light sources.

Do not use the device in extremely cold or hot environment.

Charge the battery once every three months when it is not used for a long period of time.

Do not irradiate the laser indicator of the device to human eyes.

Never disassemble or modify the device on your own.

2 Packing List – IBEX



Scope (x1)



Service and support card (x1)



User manual (x1)



Charger (x1)



Lithium battery (x2)



USB cable (x1)



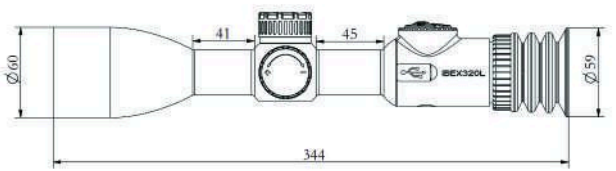
Lens cloth (x1)

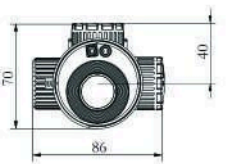
3 Specifications
IBEX

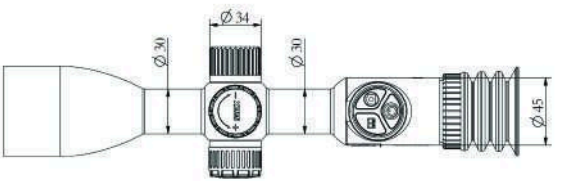
Model	IBEX335L	IBEX320L	IBEX635L
Microbolometer			
Type	Uncooled		
Resolution	384×288	384×288	640x512
Pixel pitch	12μm		
NETD	< 18mK		
Spectral range	8-14μm		
Frame rate	50Hz		
Detection Range	1800m	1000m	1800m
Optics			
Objective lens	35mm@F0.9	20mm@F0.9	35mm@F0.8
Field of view	7.5°×5.7°	13.1°×9.8°	12.5°×10°
m@100m	13.2×9.9	23.04×17.28	21.9×17.6
Magnification	3.7X	2.1X	2.2X
Digital zoom	1.0-4.0X		
Eye relief	50mm		
Exit pupil	6mm		
Diopter	±5D		
Aiming Reticle			
Reticle	8		
Reticle color	5		
Display			
Type	AMOLED		
Resolution	1600×1200		
Display size	0.5 inch		
Color palette	6		

Function			
Max. recoil power on rifled weapon	6000J		
Mounting brackets on weapon	Standard 30mm rings		
RAV	Yes		
TASS	Yes		
Audio Recording	Yes		
Manual zeroing	Yes		
Zeroing profiles	6		
Freeze Zeroing	Yes		
Picture-in-picture	Yes		
LRF	1000m		
Ballistic Calculator	Yes		
Image calibration	Manual/Auto		
Video Recorder			
Photo/video playback	Yes		
Inbuilt memory	64GB		
Interface			
Type C	Data transfer, Battery charge		
Hotspot	Yes		
Battery			
Battery type	Replaceable and rechargeable, 18650x1		
Battery life	6h		
Environment			
Operating temperature	-20- +50℃		
IP rating	IP67		
Weight, g	770±5 (w/o Battery)	720±5 (w/o Battery)	770±5 (w/o Battery)
Size, mm	344(L)×86(W)×70(H)		342(L)×86(W)×73(H)
Accessories			
External cable	USB data cable		
Other accessories	Eyeshade and etc.		

4 Appearance
4.1 Dimensions

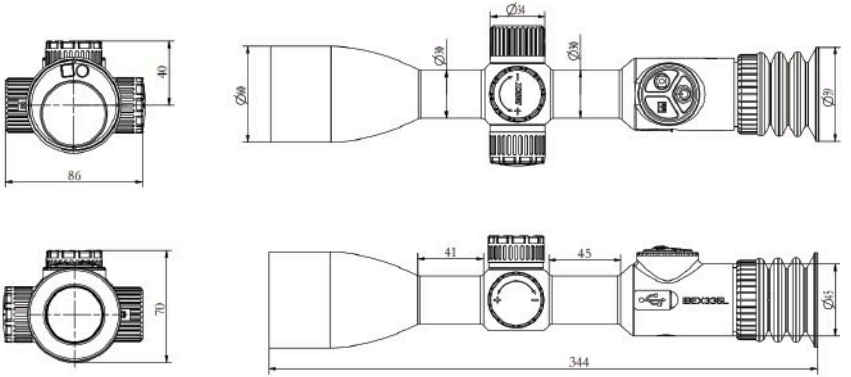






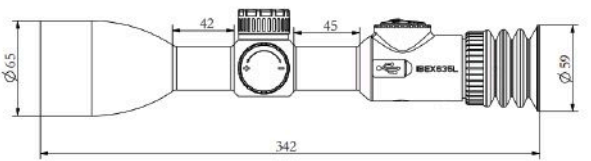
IBEX 320L

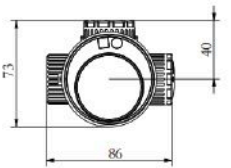
4 Appearance
4.1 Dimensions

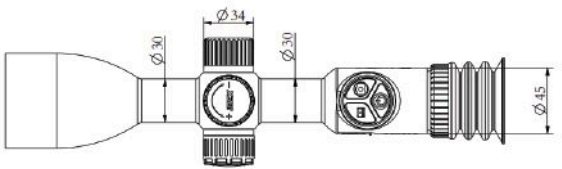


IBEX 335L

4 Appearance
4.1 Dimensions







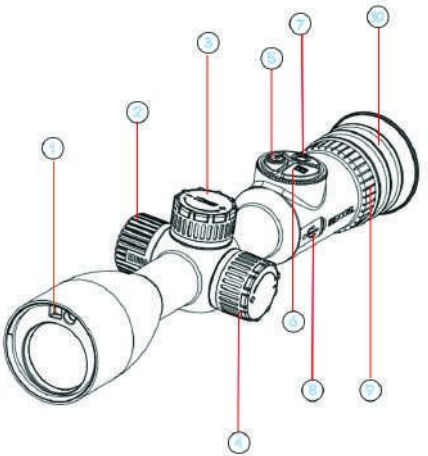
IBEX 635L

4.2 Buttons and Operations

Before the Entry of Main Menu					
Icon	**Annotation**	**Rotation**	**Short Press**	**Long Press**	**Double Press**
	Power Button	/	Standby Mode	On/Off	Image Calibration
	Laser Rangefinder	/	LRF Turn On/Off	Outline Mode	Color Palettes Shift
	Capture/Record	/	Take Photos	Record	PIP On/Off
	Rotating Knob A	Digital Zoom/ Contrast/Brightness	Shortcut Menu	Entry/Exit Shortcut or Main Menu	/
	Rotating Knob B	Focus	/	/	/

After the Entry of Main Menu					
	Rotating Knob A	**Rotation**	**Short Press**	**Long Press**	**Double Press**
		Selection Switching	OK	Exit	/

4.2 Buttons and Operations

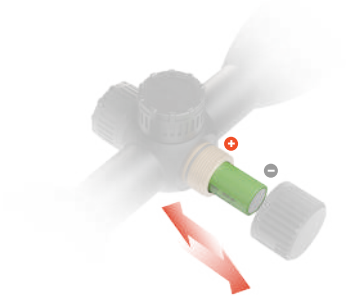


NO.	Comments
1	Laser rangefinder module
2	Battery slot with 18650
3	Focusing knob
4	Digital zoom knob
5	Photo/Record button
6	Laser rangefinder turn On/Off button
7	Power On/Off button
8	USB interface
9	Diopter adjustment
10	Rubber eyeshade

5 Operation Guide

5.1 Battery Installation

IBEX Series with one battery can be installed in the lateral battery holder, and there is negative polarity of battery that must be towards outside. Please refer to the following figure for the installation of the replaceable battery.



Note:

IBEX can be charged by the Type-c immediately.

5.2 Power-on the Device



Power button

Users could long press the power button to power on/off the device.
In addition, it is available to short press the power button to enter device' s standby mode to keep the screen locked.

5.3 Main Menu

Long press the digital zoom knob to enter the main menu. After the entry of Main Menu, short press the button for the operation of "confirmation", and long press the button for the operation of "Exit". Rotating the knob is to move the cursor.



5.4 Lens Adjustment

5.4.1 Diopter Adjustment

Slowly rotate the diopter adjustment ring to adjust the position of diopter level to optimize the image sharpness on the OLED display.





Main Menu

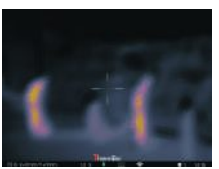
5.4.2 Objective Lens Focusing

Objective lens rotating knob is on the top of the middle, please manually adjust the focusing knob when necessary.

Aim at the target and rotate focusing knob until the image of object is clear.



Both clockwise and anticlockwise rotation of the foucsing knob are allowed.



Before



After(reference only)

5.4.3 Digital Zoom

On the main interface, rotating the digital zoom knob anticlockwise can increase magnification up to 4.0×, **and vise versa.**





5.4.4 Image Mode

Here includes two kinds of image modes which are respectively Forest and Rainy could be selected by user.



5.5 Shortcut Menu

5.5.1 Taking Photos/Videos



Take photos - short press the Capture/Record button; Take videos - long press the Capture/ Record button.

5.5.2 Laser Ranging



Laser Rangefinder - short press the Laser Range- finder button to turn on/off the laser rangefinder.

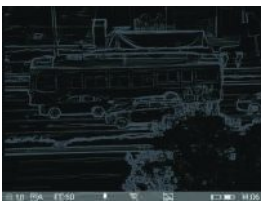
5.5.3 Pseudo Color Switch



Pseudo color switch - double press the Laser rangefinder button to switch the pseudo colors.

5.5.4 Target Outline Mode





Target Outline Mode - long press the Rangefinder button to turn on/off the Outline Mode of the target.

5.5.5 Standby Mode



Standby Mode - short press the Power button

5.5.6 Contrast and Brightness Adjustment (shortcut menu)







1. Short press the middle of digital zoom knob to enter the Contrast or Brightness adjustment interface in the observing mode.
2. Rotate the knob to adjust value of contrast or brightness level.
3. Long press the knob to exit the shortcut menu.



Color Plate

Note: above picture is just for reference, please find it based on practice.

5.6 Entry of the Main Menu

Long press the digital zoom knob to enter the main menu. After the entry of Main Menu, short press the knob for the operation of “Confirmation”, and long press the knob for the operation of “Exit”. Rotating the knob is the operation of moving the cursor.

Color Palettes



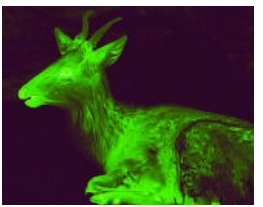
White



Black



Red



Green



Golden



Violet

5.7 Image Settings

There are four submenus for image settings,which are “Brightness” “Contrast” “Sharpness” and “Denoise”. Short press the digital zoom knob these sub-menus under the image menu, then rotate the knob to adjust related image parameter.

Image Setting Submenus		
Brightness ☼	1-10	Adjust the image brightness to make the image brighter. The recommended value is 5. 
Contrast ◑	1-10	Adjust the image contrast to make the object more prominent in the image. The recommended value is 5. 
Sharpness △	1-10	Adjust the image sharpness to make edges of the image sharper. The recommended value is 5. 
Denoise ▥	1-10	Adjust the image noise to make the image cleaner. The recommended value is 5. 

5.8 Settings

Short press the digital zoom knob to enter the sub-menus of Settings, and rotate the digital zoom knob to adjust the parameters accordingly.

Sub-menus of Settings		
Zeroing profiles	A-F	There are six zeroing profiles from "A-F" in the file folder, which contain the distance, type of bullet, and the coordinates of the crosshairs after zeroing. 
PIP		The image is enlarged by 2x as centered by the crosshairs. Picture-in-picture occupies 10% of the entire image. 

Files	RAV-recording	Open the sub-menu of Video, and rotary the knob to select the RAV recording. 
	Picture	Open the sub-menu of Picture, and rotate the knob to select the images. 

Files	**Record**	Open the sub-menu of Video, and rotate the knob to select the videos. 
Setting	**Audio**	Turn on/off audio function to record the related voice in the video before user takes the recording. 

Setting	Correction	The image correction mode could be set to Auto or Manual. 
	Tracking	Turn on heat tracking function to mark the hottest target on the screen in real time. 

Setting	**RAV**	After turning on the RAV, the scope will record videos before, during and after your shot. The threshold can be modified manually for different weapons and ammunitions. 
	RAV Calibration	When activating RAV calibration, complete the shot within 15 seconds. The device will automatically detect and store the threshold and acceleration values generated from this firing cycle. 

Setting	**Blind Pixel**	User can operate blind spot replaced function when pups up blindness. 
	OLED (bright-ness)	The bright level of OLED can be adjusted on this sub-menu. 

Setting	OLED (color)	The background color of the OLED can be selected on this sub-menu. 
	OLED (mode)	Day and Night mode switching to adapt to different brightness scenarios. 

Setting	Logo	Show or hide the Logo in the captured images or videos. 
	Smooth	Smooth: The speed of zooming more seamless. Rapid: Integer zooming, suitable for fast moving target tracking. 

Setting	**TASS**	**On:The current digital zooming can get back to minimum zooming magnification automatically after the shooting, exactly TASS depends on activate rav function as the priority. TASS means that user can be always more rapid locking the target instead of traditional knob via the manual.** 

Setting	**Anti-Burn**	**Turn on the Anti-Burn to prevent lens from being burned by sunlight.** 

Setting	Screen	Switch between Square and Circular screen.  

Setting	Orientation	Enable orientation view to show real-time roll and pitch values. 

System	Shut-down	Turn on the Auto Shutdown if needed to avoid prolonged standby of device.Three options: 30 mins, 60 mins, 90mins, or even OFF state. 
	m-yd	Change the distance measurement unit between yard and meter as you want. 

System	Time	Adjust the local date manually. 
	Date	Adjust the local date manually. 

System	Lan-guage	Choose the corresponding language as you want. 
	Version	View the SN number and firmware version of the device. 

System	Reset	After resetting, the configuration parameters are restored to the factory state. 
	Update	The system of the device can be updated and upgraded. 

5.9 Zeroing

Enter the Main Menu, rotate the digital zoom knob to move cusrsor to “ ”and short press the knob to enter the sub-menu of Zeroing.

①Rotation and short pressing knob for selecting Zeroing menu.

② Short press the knob one more time. Rotate and short press the knob to select and confirm the zeroing distance (e.g. 25m or 35m).

③After that, move the cursor and short press the knob to enter the Gun Type screen.

Short press the knob to add the Gun Type (customizable; press “Enter” on keyboard to add the Gun Type). Long press the rotary knob to return to the previous screen.



5.9 ①



5.9 ②



5.9 ③

Notes:

It is recommended to do Zeroing at a temperature that close to the scope’ s operating temperature.

5.9.1 Manual Zeroing

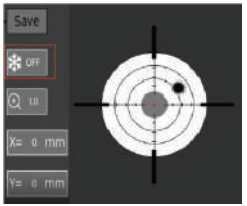
① Rotate the digital zoom knob anticlockwise, and move the cursor to finding manual zeroing menu.
② Short press the digital zoom knob to enter the Manual Zeroing screen, confirm the zeroing distance, and short press “OK” to enter the next step.
③ After your first shooting is completed, align the reticle with point of aiming, and rotate the knob to turn on the Freeze function. ✳ After that, A screenshot will be taken. (The Freeze function allows you to freely scope without losing reticle placement on the point move or manipulate the of aim during adjustments.)
④ Rotate the digital zoom knob to change the magnification if necessary, which helps to improve the accuracy of zeroing.
⑤ Adjust the coordinates (X, Y) of the reticle by rotating the digital zoom knob , and move the reticle from the original position to the bullet hole position manually. After pressing the Save button, the values of X and Y will change according to the magnification.
e.g. X: -20mm, Y: -20mm (1x); X: -10mm, Y: -10mm (2x); X: -4mm, Y: -4mm (5x).



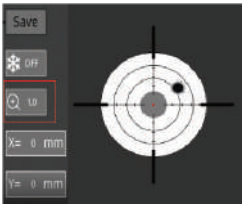
5.9.1 ①



5.9.1 ②



5.9.1 ③



5.9.1 ④



5.9.1 ⑥



5.9.1 ⑤

Notice: About the steps of zeroing with number ③④⑤ for reference only.

Notes:

1.The changes will always be saved based on your last calibration, e.g. the first saved coordinate is (-20mm, 35mm) in Profile A and you may want a tiny change like (-5mm,5mm), so the device finally displays (-25mm, 40mm). If you put the same weapon name and the same distance, it takes data from the previous profile.

2.Please get back to the main menu to choose other profiles if you would like to save new data for another gun. It is suggested to save the subsequent changes where you first time saved for the same gun. It is not recommended to save a change in Profile A firstly then another change saved in Profile B or C.

5.9.2 Ballistic Calculator

① Rotate the digital zoom knob to move the cursor to the menu of ballistic calculator, then short press the knob to the third-level menu.
② Rotate the digital zoom knob again to move the cursor to Setting, and short press the digital zoom knob. There you can configure the parameters as your need, including Scope Ht, Wind Velocity, Bullet Wt, Muzzle Velocity, BC, Wind Direction, Temperature, and Pressure.
③ When any parameter is selected for modification, the cursor would automatically move to the keyboard section at the right side of the screen.
④ Click Enter and the cursor will return to left side of the screen.
⑤ Move the cursor and click the Back section to return to the previous screen.



5.9.2 ①



5.9.2 ②

Auxiliary line of trajectory

- Users first need to move the cursor to “ON” to turn on the ballistic calculator function.
- After activation, here are totally icon will appear in the center of the screen. When the icon doesn’ t match the coordinates after zeroing, users should aim it at the certain target, then fill in the actual parameters into the “Setting” interface.



Attention:

1.The indicating cursor types of ballistic calculator have four different styles, user can get it in the BC symbol menu.
2.Ballistic calculator function needs to be carried out after zeroing, otherwise there is no practical significance.
3.When ballistic calculator is turned on, the device will automatically switch to single ranging mode.

5.10 Reticles

Type	1-8	Rotate the digital zoom knob to select the type of reticles. There are 8 types of reticles set for selection. 
Color	5 Colors	Rotate the knob to select the color of reticles. There are 5 options: Black, White, Red, Green, and Blue. 

Bright-ness	3	Rotate the knob to select the brightness of reticles. There are 3 degrees of brightness set for selection. 
Dot	5 Colors	Rotate the knob to adjust the color of the Dot. There are 3 options: White, Black, Red, Blue, and Green. 

Location	Move/ Center	Rotate the knob to select the location of reticles. There are 2 options: “Move” and “Center”. Move: Under 1x magnification, the location of the reticle keeps the same as the zeroing coordinates. The reticle will return to the center of the screen when image is zooming in. Center: When zeroing is finished, the screen will be slightly enlarged based on the zeroing coordinates. The reticle will return to the center of the screen. When zooming in or out, the reticle will always enlarge at the center of the screen. 

Mode	FFP/SFP	FFP: The reticle changes as zooming in; SFP: The reticle doesn’t change as the zooming in. 

Reversal	ON/OFF	Reticle polarity reverse helps find and lock small target. (Only for Black & White Reverse)  Notice: Totally three icons (crosshairs under the black & white,laser icon, ballistic calculation icon) can be automatical switching the color while enabling Reversal function.

5.11 Blind Pixel

There are three options (cancel, save and replace). Replace: the blind pixel on the screen can be replaced. When finished, long press the middle of the rotary knob to exit, figure shown as below.



6 Network Connection

6.1 App Download

Users could download our mobile APP named “ThermTEC Outdoor” in Apple Store and Google Play, or through the QR code shown on the packing box or user manual.

Download on the App Store

GET IT ON Google Play

6.2 Connect via Hotspot

① Turn on the device' s Hotspot.



② Connect your mobile phone to device' s Hotspot via WLAN. To input default password of device (1 to 8).
③ After successful connection, you can control devices via APP.
Notice: All devices are same password (1 to 8) when out of factory , which means, user can' t set password type by manual operation.

7 Firmware Upgrade

7.1 Upgrade via PC

① Users could download corresponding upgrading package from our website. After that, connect your device to PC via Type-C cable, and copy the firmware to device' s file folder.



7.1 ①

② Enter the Settings menu, and select Update, then there will be a pop-up window prompting “Program Updating”.
③ When the update is completed, the device will automatically restart.



7.1 ②



7.1 ③

7.2 Upgrade via Mobile Application

IBEX series thermal imaging sight could be interconnected with “interconnected with “ThermTec Outdoor” APP, which allows users to transfer files from device to smartphone or tablet via Hotspot, easily achieving remote control.

Users could refer to the following steps to realize device firmware upgrade via our mobile APP:

① Open the ThermTec Outdoor APP.

② Turn on the Hotspot of the device, and connect your mobile phone to device’ Hotspot.

③ Select Update on the menu options.

④ It will take a continuous period of time for downloading and upgrading if a new version of firmware is detected, so please be patient.

⑤ Once the upgrade is complete, the device will reboot automatically.

ThermTec





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