



User Manual

Smart Thermal Mobile Client



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Please use this Manual with the guidance and assistance of professionals trained in supporting the product.

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1

Introduction

Overview

Smart Thermal Mobile Client, which allows you to connect the thermal imaging device via its hotspot, can be used to configure the device parameters, adjust the settings of the live view, as well as capturing pictures and recording video footage. With Smart Thermal, you can optimize the view of the device to meet your requirements in different scenarios.

The supported devices include handheld thermal monocular, tube thermal scope, and compact thermal scope.

Conventions

For the concision of description, we simplify "Smart Thermal Mobile Client" as "Smart Thermal", and "handheld thermal monocular" , "tube thermal scope" , or "compact thermal scope" as "device" in the following chapters.

2

APP Downloading and Installation

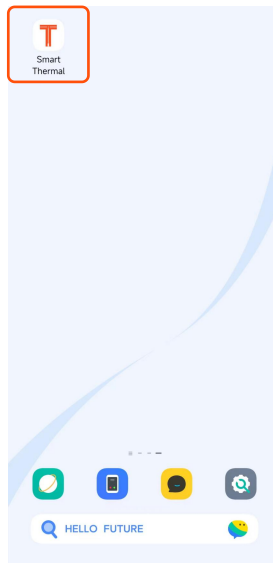
2.1 APP Downloading

Search and Download “Smart Thermal” APP from Apple Store (for iOS) or Google Play (for Android), or scan the following QR code to download the Smart Thermal APP.



2.2 APP Installation

Tap the Smart Thermal icon on your Apple or Android device to start the Smart Thermal Application and follow the wizard to finish the installation.



3

Connect Device

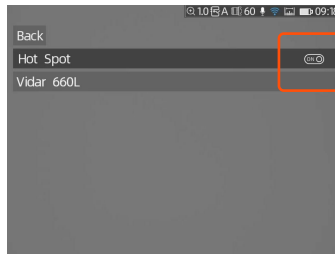
You should connect the device to Smart Thermal before you perform further operations on the APP.

3.1 Connect the Device

Tap the Smart Thermal icon on your Apple or Android device to start the Smart Thermal Application and follow the wizard to finish the installation.

Before You Start

Make sure the device's hotspot has been enabled. Please refer to the User Manual of the corresponding device for the details of enabling the device's hotspot.

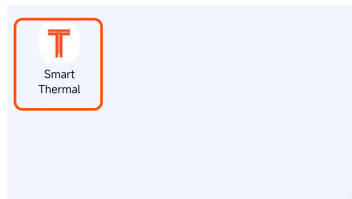


Notes

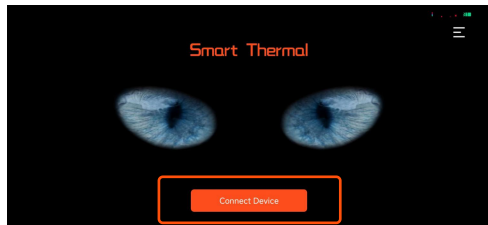
The distance between the device and your mobile device should be within 12 meters.

Steps

1. Start the Smart Thermal.



2. Tap **Connect Device** to connect your mobile device to the APP.



Notes

- Up to 1 device can be connected to the Smart Thermal at the same time.
- Please turn off the local network of your mobile device before it is connected to the APP.
- The default password of the device is 12345678. If you can't connect to the Smart Thermal all the time, please check the password in the WLAN settings of the device.

Tap **Connect Device** to enter the main menu.
Tap **Live View** to capture and view images and videos in real time from your device.



4

Live View Mode

After entering the Live View page, you can perform operations including Ranging, Zoom, Image Setting, Color Plate Configuration, System Setting, etc.

Notes

- The distance between the device and your mobile device should be within 12 meters.
- The Ranging function is also available in the live view mode, but the detected range can be only seen in device rather than on your mobile device screen.

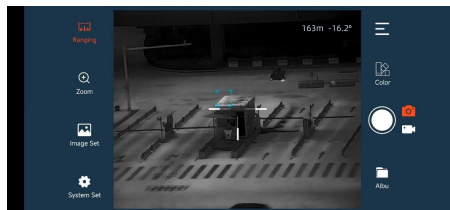
4.1 Enable Ranging Function

The ranging function varies with different series of products, for those series with laser rangefinder function, ranging will be realized via laser rangefinder, and for those series with AI rangefinder function, ranging will be realized via AI rangefinder.

Notes

For the product series set with laser rangefinder function, laser ranging towards human is not supported. There will not be any ranging data shown on the screen when ranging towards human with laser rangefinder function.

Tap **Ranging** to enable rangefinder function. It will detect the range of certain object you are aiming at automatically.



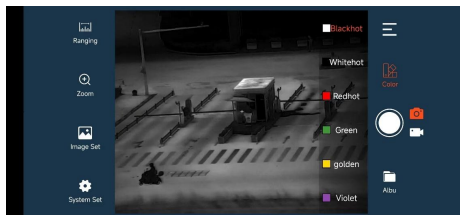
4.2 Color Plate

The color plate is the color scheme used to display a thermal image. A color plate which fits the usage scenario helps you observe the live views in a better and more vivid way.

Notes

There are 6 types of color plates, supporting different needs in various scenarios.

Tap **Color Plate** and then select a color.



White Hot

The hot part is light-colored in view.

Black Hot

The hot part is black-colored in view.

Red Hot

The hot part is red-colored in view.

Green

The hot part is green-colored in view.

Golden

The hot part is golden-colored in view.

Violet







The hot part is Violet-colored in view.

4.3 Capture and Recording

You can record video footage and capture pictures during live view.

Steps

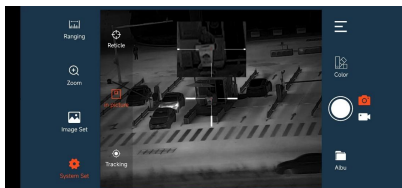
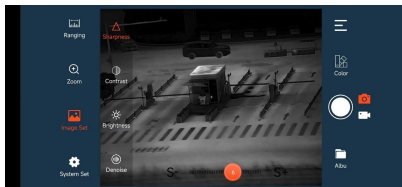
1. Connect the device.
2. Record video footage or capture pictures.

Capture Picture	Tap  to capture a picture.
Record Video	Tap  and tap  to record live video, tap  to stop.
Switch Recording and Capturing	Tap  /  to switch recording/capturing mode.

The recorded video footage and captured pictures can be viewed and managed in the Album.




4.4 More Functions



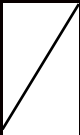
During live view, you can also adjust the brightness, contrast and sharpness of the images, set digital zoom, PIP, reticle and calibrate the image.



The following table shows the descriptions of the icons on the Live View page.

Table 4-4 More Functions

ICON	Description
	Set digital zoom. You can set the zoom level from 1X to 5/6X.
	Adjust the brightness of the live video images. For handheld thermal monocular, tube scope and compact scope, you can set the brightness level from 1 to 10. The larger the number, the higher the brightness level.
	Adjust the contrast of the live video images. For handheld thermal monocular, tube scope and compact scope, you can set the contrast level from 1 to 10. The larger the number, the higher the contrast level.

	<p>Adjust the sharpness of the live video images. For handheld thermal , tube scope and compact scope, you can set the contrast level from 1 to 10. The larger the number, the higher the sharpness level.</p>
	<p>Adjust the denoise of the live video images. For handheld thermal monocular, tube scope and compact scope, you can set the contrast level from 0 to 10. The larger the number, the higher the denoise level.</p>
	<p>In order to meet different needs, you could double click the screen to enter the full screen mode.</p>

5

File Download and File Viewing

You can download the recorded videos and captured pictures from device, and then view them locally and offline.

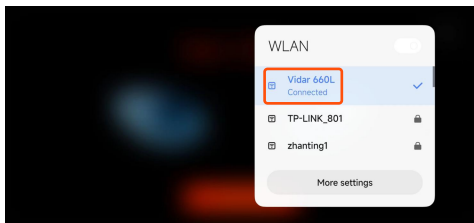
After pictures or videos are taken during live view, you can check them in the album as well as sharing them on any social media platforms.

5.1 File Download

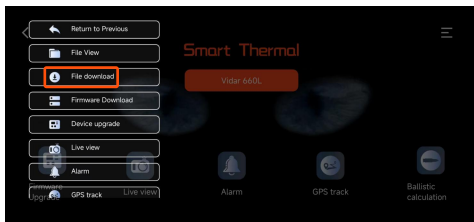
You can download the captured pictures and recorded videos from the device.

Steps

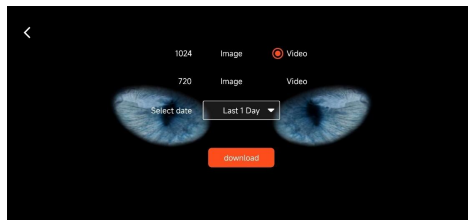
1. Connect the device with Smart Thermal.



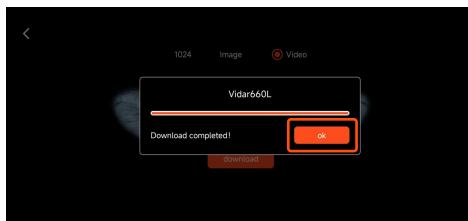
2. Tap File download in the menu.



3. Decide what to download by setting Series and Date.



4. After finishing the settings, tap Download, until downloading completes.

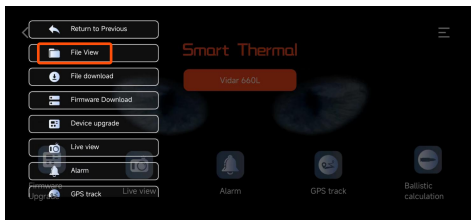


5.2 File Viewing

You view the captured pictures and recorded videos.

Steps

1. Tap File View in the menu or tap Album in the live view mode.



2. View pictures and videos

- **View Pictures:** Tap certain pictures in the album, and upload it to the Cloud, share them, or delete them. All the operating icons are in the right-upper corner.



- **Watch Videos:** Tap certain videos in the album, and upload it to the Cloud, share them, or delete them. All the operating icons are in the right-upper corner. Tap the selected video to play or pause. You may also drag the process bar to watch the video.



6

General Functions

You can upgrade your device' s firmware easily via Smart Thermal and set other system parameters including Ballistic calculation, surely check device' s GPS is also available.

6.1 Offline Upgradation

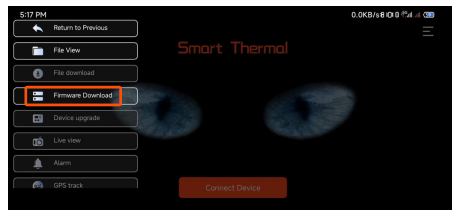
You can easily upgrade the device' s system via Smart Thermal.

Notes

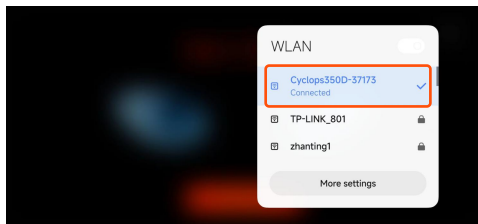
- Please turn off your local network after finishing downloading firmware package.
- Don' t turn off Smart Thermal during the upgrading process.
- Firmware upgradation wouldn' t erase the Zeroing settings or Ballistic parameters.

Steps:

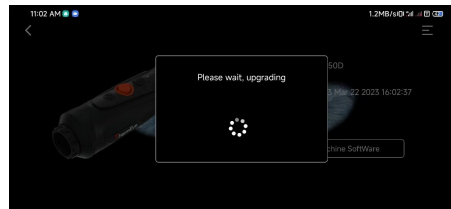
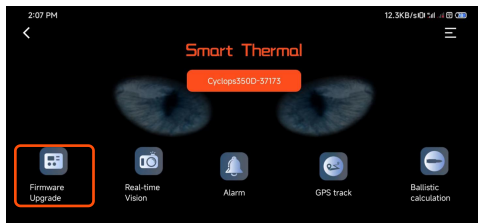
1.Tap **Firmware Download** in the menu, and select certain device, and download corresponding firmware package.



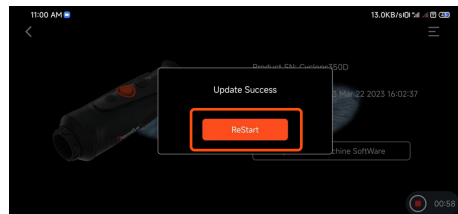
2. Turn on device's hotspot, and connect your mobile device to Smart Thermal.



3. Tap **Firmware Upgrade** and tap **Upgrade the Machine Software** successively.



4. Wait until the upgradation process completes. Tap Restart and check the system version from the device setting of reset.



6.2 Ballistic Settings

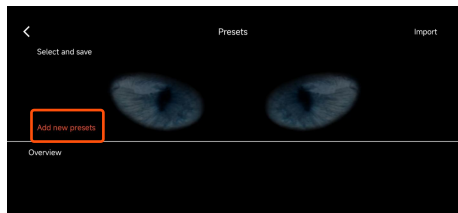
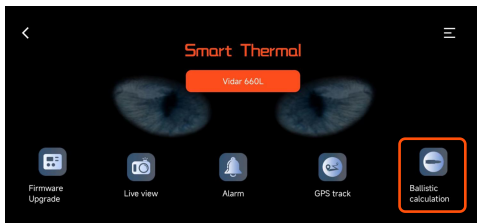
You can preset the Ballistic parameters and import it to your device through Smart Thermal.

Notes

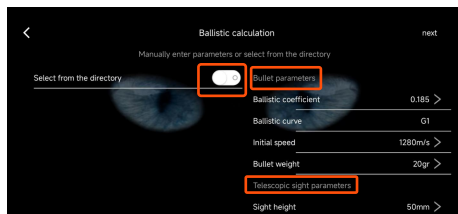
- Ballistic Calculation only supports Vidar LRF series.
- Please exit the menu page of the device when you import the parameters through Smart Thermal.
- If the presets are imported successfully, it will prompt “Import Success” .

Steps

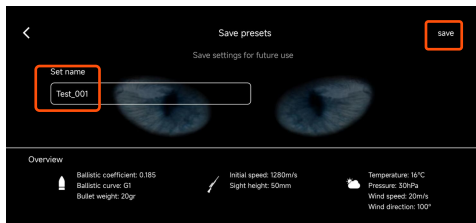
1. Tap **Ballistic Calculation** in the menu, and tap **Add new presets**.



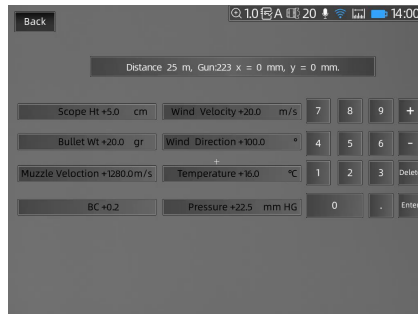
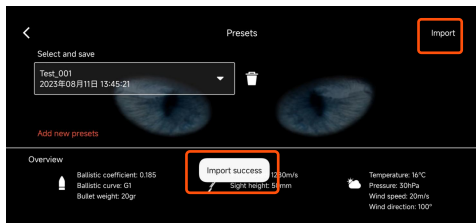
2. In this section, we can select **WEAPON** and **BULLET** from the directory. You may also ignore this option, and set other parameters manually.



3. After all the parameters are set, tap **Set name** and tap **Save**.



4. Turn back to the **Ballistic Calculation** page, and choose the selected presets and tap **Import**.



6.3 GPS Function

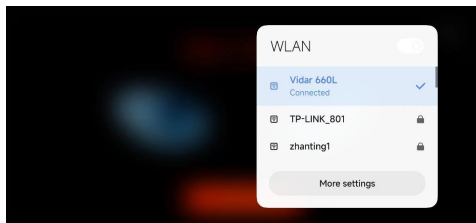
GPS function allows you to track device' s movement.

Notes

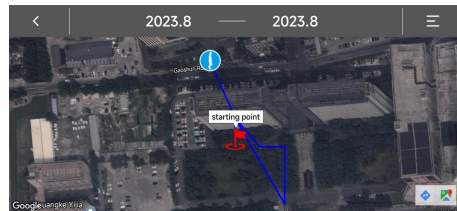
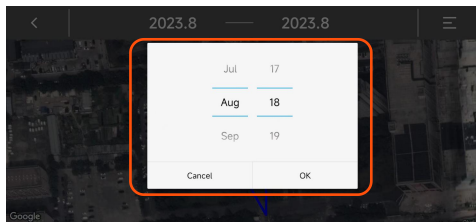
- The location will be easily acquired in open place.
- There may be differences between real location and recorded one, but it' s still an ideal reference for you to make notes.

Steps

1. Turn on the hotspot of your device, and connect it to Smart Thermal.



2. Tap **GPS Track** in the menu, and set the time range.



6.4 Others

Alarm

You can set the parameters for notification, when an object appears on the scene.

Help

You can find relevant manners to connect to Smart Thermal, version of the APP and User privacy protocol in this section.



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