

TK-C Sirius

Search & Scan
Thermal Imaging Camera



Quick Start Guide

EN

TK-C 225 TK-C 350 TK-C 650

V1.0



Panora Precision: Clarity Without Limits

Panora Precision was founded on a powerful idea: that clarity should be boundless. Our name, inspired by “Panorama,” reflects this core belief in a vision without limits. We develop advanced optical systems that merge expansive situational awareness with absolute precision, empowering professionals to see further, identify clearer, and act with confidence in the most demanding conditions—whether in search and rescue operations, wildlife observation, or round-the-clock security. For those who rely on more than just sight, but a decisive advantage.

E-mail: ivg-limited@panoraprecision.com

Products

The Handheld Observation Thermal Camera is a thermal imaging handheld product that combines basic observation and hotspot tracking functions. Built-in high sensitivity infrared detector, using advanced passive infrared thermal imaging technology, in low visibility or complete darkness environment to obtain rich image information. The equipment is designed to be rugged and durable to meet the needs of outdoor use, and can be widely used in patrolling, law enforcement, search and rescue, anti-narcotics and anti-smuggling, prisoner tracking, hiking, traveling and so on.

Main performance

- Adopts high performance processing chip and image detail enhancement technology.
- Supports OLED display with HD resolution.
- Built-in removable Li-ion battery, can run continuously for 5 hours under full charge.
- Equipped with USB power cable for charging.
- APP can be connected to operate



packing list

- TK-C Thermal Imaging System
- 18650 Battery
- Battery Charger
- TYPE-C Cable
- Sleeve
- Rail Adapters
- Quick Start Guide

Function Highlights

• laser distance measurement

Accurate detection of target distance.

• Gyroscope

Real-time detection of equipment pitch and tilt angles.

• network function

Support hotspot, add thermal camera through mobile APP to realize the functions of capturing, recording and parameter configuration.

• memory function

Built-in storage of 32 GB to support video recording or image capturing.

• ballistic calculation

APP Download

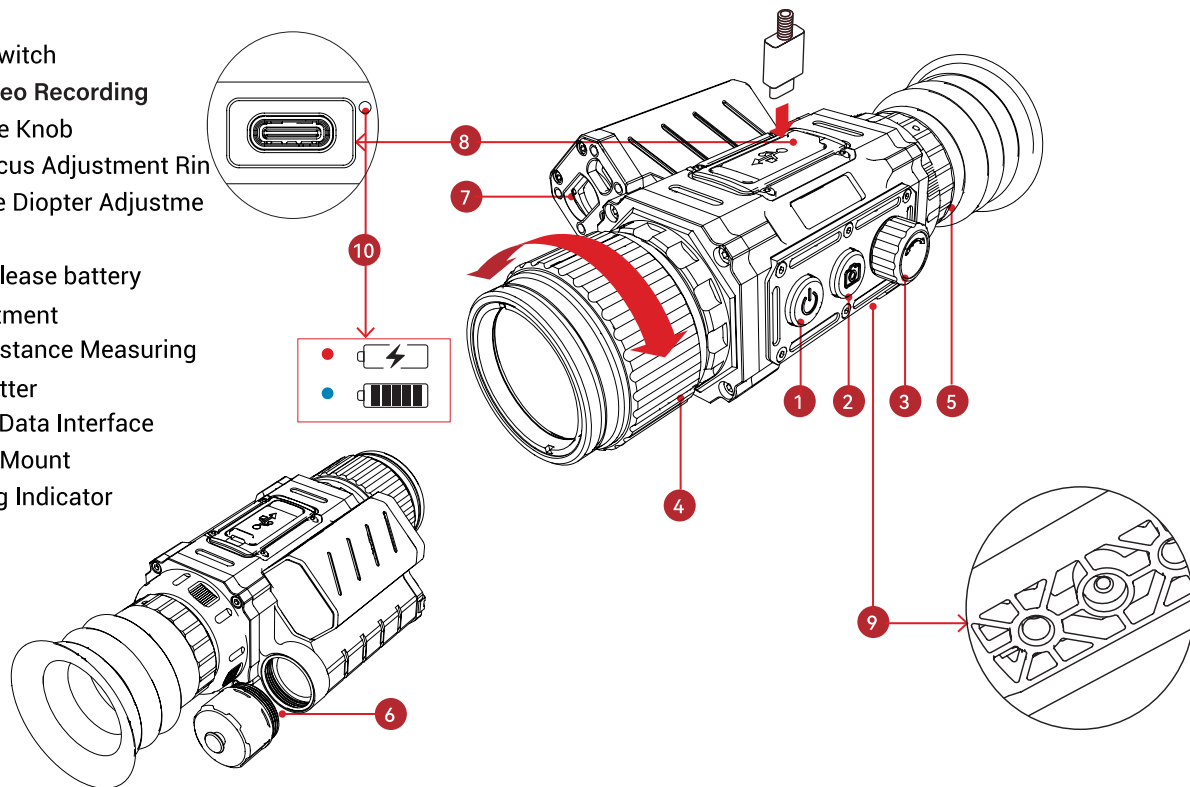
See APP for operating instructions



Install APP software to download and share videos and photos, control the device through APP, and share real-time video of the device to your cell phone and PAD through WIFI.

Interface

- ① Power switch
- ② LRF/Video Recording
- ③ Versatile Knob
- ④ Lens Focus Adjustment Ring
- ⑤ Eyepiece Diopter Adjustment Ring
- ⑥ Quick release battery compartment
- ⑦ Laser Distance Measuring Transmitter
- ⑧ Type-c Data Interface
- ⑨ Bracket Mount
- ⑩ Charging Indicator



Quick Start Guide

- The battery should be fully charged when the power is turned on.
- The battery can be charged through the battery charging compartment.
- Open the lens cover, pay attention to adjust the angle, do not block the laser rangefinder.
- Press and hold the on/off button  to turn on the device.
- Adjust the eyepiece diopter adjustment ring  to make the symbols in the display clear.
- Rotate the lens focus adjustment ring  in order to focus on the target object.
- Rotate the knob button  to adjust the electronic zoom.
- Short press the knob button  to quickly select the pseudo color scheme.
- Press and hold the knob button  to enter or exit the menu. (Detailed operating instructions can be found in the operation manual)
- Long press the On/Off button to turn off the device.

Equipment Function Overview

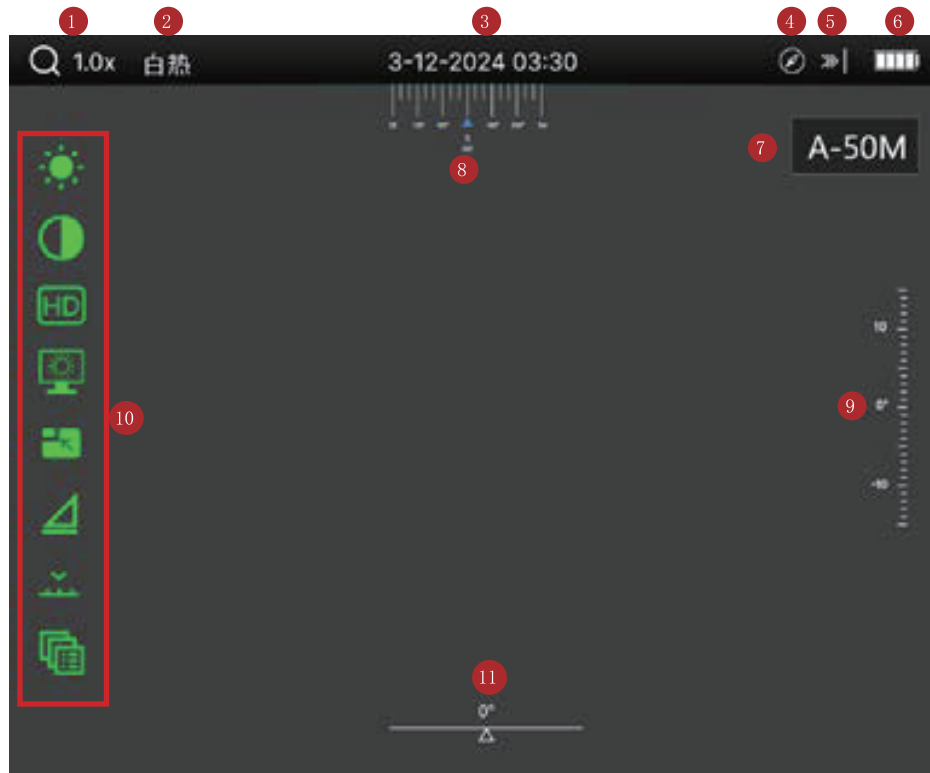
- | | |
|---|----------------------------|
| ● Non-uniformity correction | ● Battery Capacity |
| ● Image Smoothing Function | ● Version Information View |
| ● Image Detail Enhancement | ● Restore Defaults |
| ● Digital Filtering for Noise Reduction | ● OSD |
| ● CVBS | ● Probabilistic ranging |
| ● Crosshair | ● Ballistic Calculation |
| ● WIFI Hotspot | ● Accelerometer |
| ● Photo | ● Image over-scoring |
| ● Video | ● Storage Memory |
| ● Infrared Laser | ● Picture-in-Picture |
| ● Laser Ranging | ● Mobile APP |
| ● Hotspot Tracking | ● Brightness |
| ● Auto Power Off | ● Contrast |
| ● Removable Battery | ● Bad Dot Repair |
| | ● Laser Distance Measuring |

Specification

model		TK-C-225	TK-C-350	TK-C-650
lens focal length mm		25	50	50
field of view °		7*5 3°	5.3*4°	8.8*7
Target (person) Distance (meters)	discoveries	2500	5000	5000
	recognize	625	1250	1250
	Discern	312	625	625
detector		256×192 12μm	384×288 12μm	640×512 12μm
Display OLED		0.32" @ 800*600	0.49" @ 1344*1080	
NETD		≤ 18 mk	≤ 18 mk	
electronic zoom		1x-4x	1x-8x	
response band		8~14 μm		
Sensor type		Uncooled Focal Plane Detectors		
false color mode		Black Heat, White Heat, Red Heat, Iron Red, Fusion, Green Heat		
Scene Mode		Jungle Mode, Recognition Mode		
operating method		2 Keys + DIP Switch		
Shutter Control		Manual/Automatic		
Dividing Line Configuration		9		
Laser Ranging		1000m		
Laser wavelength		905nm		
Sight Configuration		A-E		
battery capacity		3400mAh		
ballistic calculation		Support		
Storage Memory		32G	64G	
Waterproof Rating		IP67		
endurance		5H (Individual observation time)		
weights		540G		
sizes		60*82*205(mm)		

Button	Operating conditions	Short press	Long press	Turn forward		Turn about
Power button (1)	Equipment shutdown	--	Turn on the power	--		
	Observation Interface	Turn off the screen	Turn off the power			
Laser Rangefinder Button (2)	turned on	Range measurement	Video Recording			
	Single-shot ranging	Single-shot ranging	--			
	Continuous distance measurement	Freeze/Resume Distance Measurement				
Rotary Knob (3)	turned on	Switch pseudo-color	Enter the Settings Menu	Enlarge	Shrink	
	Menu	Confirm	Save and return	Menu Up	Menu Down	
Power Supply + Laser	turned on	Shutter Calibration	--			
Power + Rotary Knob	turned on	Compass Calibration				
Laser + Rotary Knob	turned on	Upgrade Firmware				

Interface Introduction



- ① . Magnification Status
- ② . False color state
- ③ . Date and Time
- ④ . Compass Switch Status
- ⑤ . Distance Switch Status
- ⑥ . Battery Charge Information
- ⑦ . Ballistic Configuration
- ⑧ . Compass
- ⑨ . elevation angle
- ⑩ . Menu
- ⑪ . inclination angle

MENU	Feature Overview
Brightness	Adjust the screen brightness by briefly pressing the rotary switch in the menu to select it, then turn the rotary switch to adjust the value. Briefly press the rotary switch again to confirm. Five levels are available: 1 to 5.
Contrast	Adjust the screen brightness by briefly pressing the rotary switch in the menu to select it, then turn the rotary switch to adjust the value. Briefly press the rotary switch again to confirm. Five levels are available: 1 to 5.
HD	To enable AI super-resolution for enhanced image detail, briefly press the rotary switch in the menu to select it. Rotate the switch to toggle between ON and OFF, then briefly press the switch again to confirm. Applicable to models 256 and 384.
Screen brightness	Adjust the screen brightness by briefly pressing the rotary switch in the menu to select it, then turn the rotary switch to adjust the value. Briefly press the rotary switch again to confirm. Choose from levels 1 to 5.
PIP	Use to activate the picture-in-picture function. In the menu, briefly press the rotary switch to select it. Turn the rotary switch to choose ON/OFF. Briefly press the rotary switch again to confirm.
Sharpness	Adjusts image sharpness. Select it by briefly pressing the rotary switch in the menu. Turn the rotary switch to adjust the value. Briefly press the rotary switch again to confirm. Higher values increase noise. Available levels range from 1 to 5.
Scene Mode	Recognition Mode: The visual effect highlights the target display.
	Jungle Mode: Visual effects emphasize detailed rendering.
Aiming Configuration	Used for storing ballistic configurations. Select the option in the menu by briefly pressing the rotary switch. Adjust the value by turning the rotary switch. Briefly press the rotary switch again to confirm. There are five configuration levels.

	placement	Setup GroupA-E
	Distance	Zero Distance
	Division Type	7Component marking is optional
	Color Division	Color Settings for Divider Lines
Zero	Variable zoom	Zoom in on the zero adjustment screen.
	Freeze	Freezing the zeroing screen allows for more convenient adjustment of the point of impact.
	Coordinate System	Set the center of the grid division to coincide with the point of impact.
	Ballistic Calculation Settings	Set ballistic calculation parameters
Smart Trajectory	Used to enable or disable the ballistic calculation function. In the menu, briefly press the rotary switch to select it. Turn the rotary switch to choose On/Off. Briefly press the rotary switch again to confirm.	
Range measurement	Set continuous/single-shot distance measurement. Briefly press the rotary switch in the menu to select it. Rotate the rotary switch to choose continuous/single-shot distance measurement. Briefly press the rotary switch again to confirm.	
Variable zoom	To adjust the image magnification, briefly press the rotary switch in the menu to select it. Rotate the switch to adjust the value, then briefly press it again to confirm. Settings are adjusted in 0.5 increments.	

Menu Introduction

Hot Topic Tracking	Use this to toggle Hotspot Tracking on or off. In the menu, briefly press the rotary switch to select it, then rotate the switch to choose On/Off. Briefly press the rotary switch again to confirm. When Hotspot Tracking is enabled, it will automatically mark the hottest point in the current frame.	
Pre-recorded video	Used to enable or disable the pre-recording video function. In the menu, briefly press the rotary switch to select it, then turn the rotary switch to choose On/Off. Briefly press the rotary switch again to confirm. Once enabled, the device will automatically start recording when it detects a shooting impact.	
WIFI	Used to turn the Wi-Fi function on or off. In the menu, briefly press the rotary switch to select it, then turn the rotary switch to choose On/Off. After turning it on, use your phone's Wi-Fi to search for the network named CENV-*****. The password is 12345678. Once connected, you can use the device's companion app on your phone to connect to the device for mobile target observation.	
Function Settings	Burn Protection	When this feature is enabled, the device will shut off the shutter protection sensor upon detecting an extremely high heat source.
	Dead Pixel Correction	Used to eliminate bad pixels on sensors.
	OSD	You can turn the top status bar on or off.
	Shutter Mode	Enable/Disable Shutter Auto-Calibration.
	Electronic Compass	Turn on/off the electronic compass
	Laser Cursor Calibration	Used for correcting the position of the laser spot.

General Settings	Language	For setting the system language: Chinese, English, German, French, Russian.
	Time	Used to set the system time
	Time unit	Set the 12/24-hour format.
	Device Information	View device information, including firmware version and Wi-Fi details.
	Format	Format internal storage.
	Restore factory settings	Restore all settings to the device's default settings.

Display Mode

Jungle Mode



Recognition Mode



False Color Effect Demonstration

White-hot



Black Heat



Red-hot



Integration



Iron Red



Glimmer





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