

..... New Product Introduction

UTx313/318/325

Infrared Thermal Monocular



CONTENTS



Structural Compositions



Function Introduction



Applications



Certificates



Technical Specifications



Detection & Recognition

<https://www.youyedor.com/>

Structural Compositions

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Structural Compositions



Structural Compositions



Structural Compositions



No.	Button	Short press	Long press	Short press in Settings interface
①	Power	Shutter calibration	Power on/off	/
②	Palette	Palette switching	Enter Settings interface	Confirm
③	Zoom	1x, 2x, 4x	Hot trace	Up
④	Capture	Image capture	Center marker	Down

Function Introduction

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Rich Palettes

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Black Hot



White Hot



Red Hot



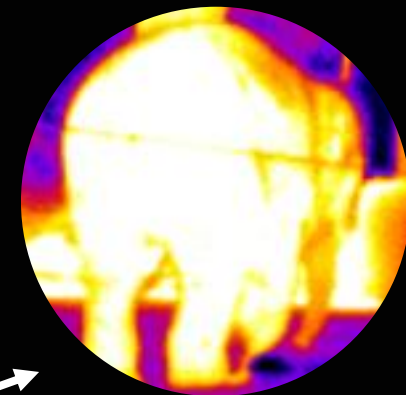
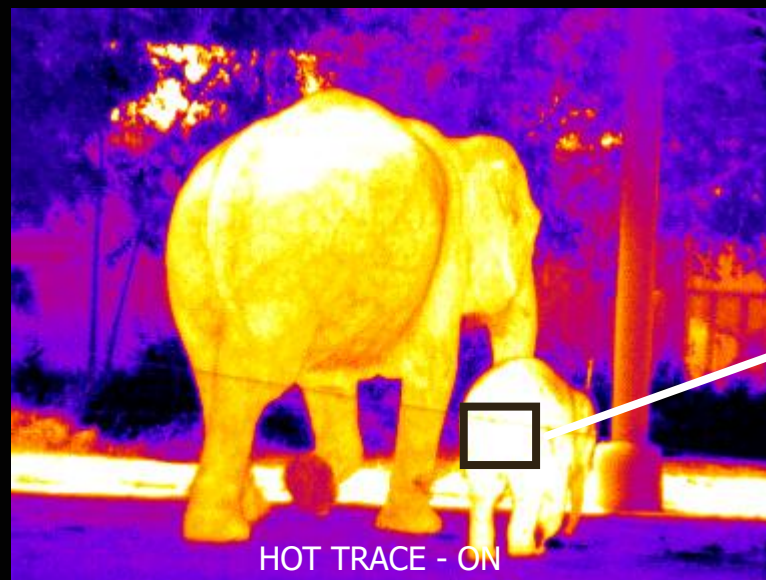
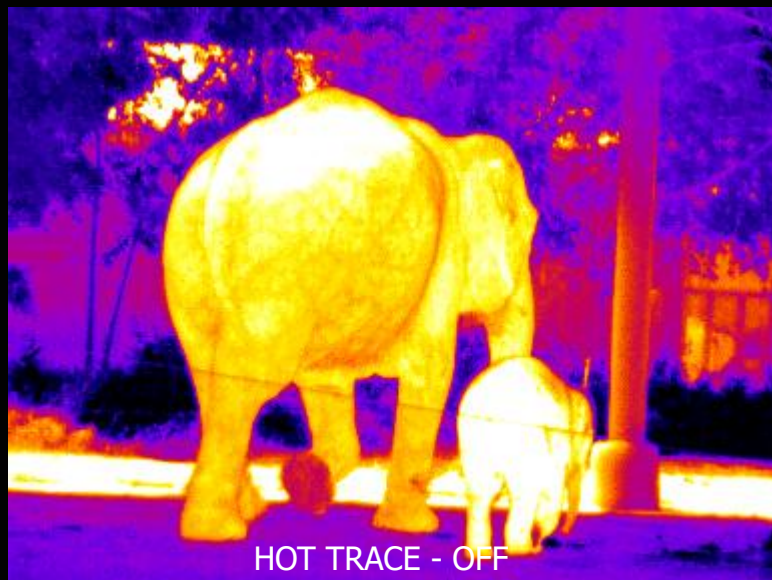
Ironbow



Rainbow



Hot Trace

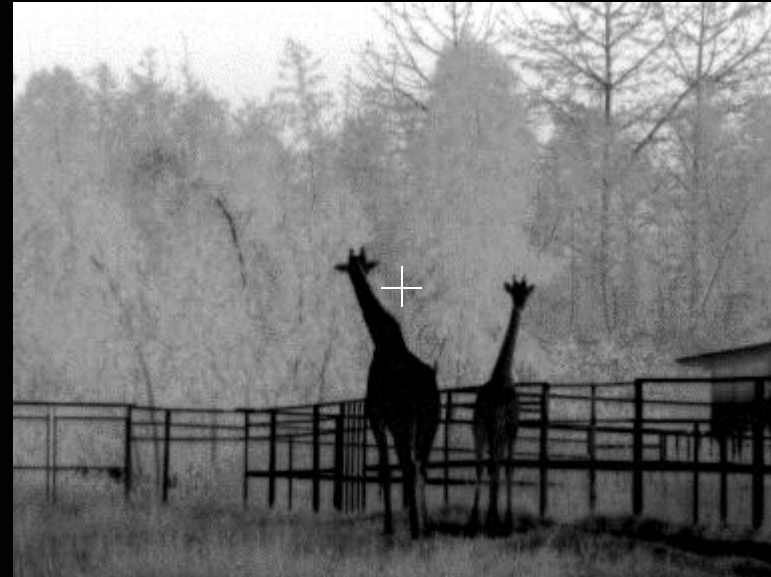


Hottest Region

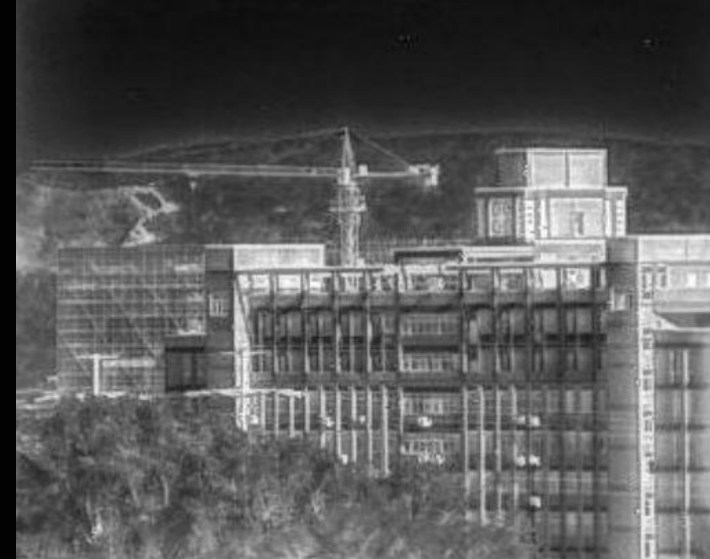
Long press Zoom button to activate "Hot Trace" function. After it is on, the hottest region will be marked in a black rectangle.

Center Marker

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Long press Camera button to activate Center Marker.



DDE is an improved algorithm, which remains details on the images with high dynamic range, assists users to collect more details in scenarios with extreme dynamic range.

Adjustable Brightness & Contrast



Brightness Level: 1



Brightness Level: 10



Contrast Level: 1



Contrast Level: 10

Applications

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Applications



Outdoor Camping

Setting up tents is an essential part of outdoor camping. Visibility reduces at night, resulting in blind spots. In this case, personal and property security are not guaranteed. Thanks to the characteristics of infrared thermal monocular, the surrounding areas can be surveyed at night and other harsh environments, avoiding risks in advance.

01 /

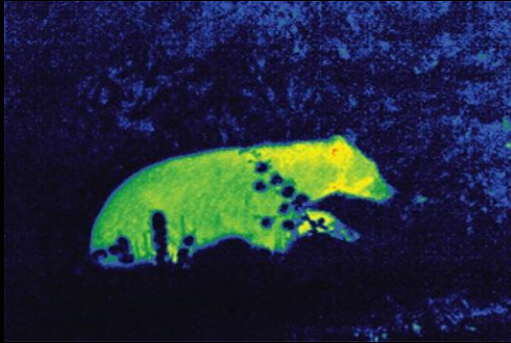


Sailing

- Observing the changes of topography, and plan a route in advance.
- Judge whether the nearby islands have the potential risks and suitable for resting.

02 /

Applications



Animal Observation

Using Infrared Thermal Monocular at night to quickly find animals hidden in the cultivated field, improves the efficiency of catching wild pest, purifying the ecological environment for cultivation.

03 /



Emergency Search & Rescue

Rescue difficulty will be increased in severe weather and environment. Quickly search the dynamic traces of heat source through infrared thermal monocular, assist in organizing search & rescue teams to find the trapped personnel in time to reduce public safety risk.

04 /

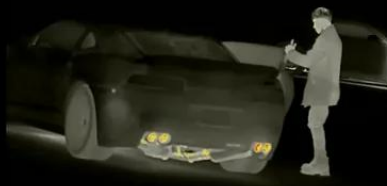
Applications



Night Patrol

Infrared thermal monocular can assist night security patrol to judge the safety of public security environment. Find suspicious people timely, improve nighttime public security safety.

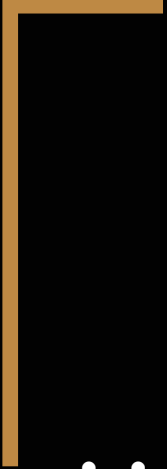
05 /



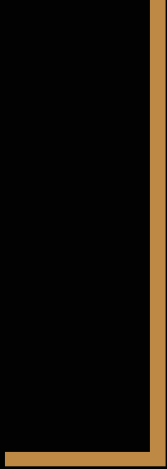
Reconnaissance and Raid

When law enforcement officers track and search fugitives, they often need to track and collect key evidence, such as human traces, start and stop traces of vehicles and other traces with thermal characteristics. Thermal night-vision devices can record and track thermal traces and movements of fugitives, and assist law enforcement officers in catching fugitives accurately and quickly.

06 /



Certificates



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Certificates



Technical Specifications

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> Basic Parameters

Model:	UTx313	UTx318	UTx325
Detector type:	UFPA (Vanadium oxide)		
Detector resolution:	384 x 288		
Display resolution:	1280 x 960		
Display size:	0.4" LCOS		
Spectral range:	8~14μm		
Frame rate:	50Hz		
Pixel size:	12μm		
Lens focal length:	13.5mm / F1.0	18mm / F1.0	25mm / F1.0
FOV:	20.3°(H) x 15.2°(V)	14.6°(H) x 11°(V)	10.5°(H) x 7.9°(V)
NETD:	≤0mk		
Focus:	Manual		
Battery capacity:	4000mAh rechargeable Li-ion battery		
Operating temperature:	-10°C~50°C		
Storage temperature:	-40°C~70°C		
Battery type:	Fixed		
Battery charging time:	≤4h		
Battery operating time:	Continuous operating time ≥8 hours		
Storage capacity:	16GB Internal		

> Basic Functions

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Palettes:	Blackhot, Whitehot, Hottest, Ironbow, Rainbow
Image mode:	Thermal
Hot trace:	√
Digital zoom:	2x, 4x
Calibration:	Shutter, Background, Auto
Video output:	MCX
DDE:	Details & Edge
Auto power off:	5/15/30/50mins/off (default)
Languages:	Chinese & English
Brightness & Contrast:	Adjustable
Protection:	IP67, 2m drop proof
Certificates:	UL, RoHS, CE, UKCA

> Package

Product net size:	207.6mm x 62mm x 62mm
Product net weight:	428g
Standard individual packing:	Gift box
Standard accessories:	Type-C USB cable, English Manual

Detection & Recognition

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Detection & Recognition



Taking rabbits (0.35m), wild boars (0.7m) and human beings (1.7m) as examples, the following table shows the detection distance, recognition distance and identification distance of this thermal monocular.

	Recognition distance	Identification distance
Rabbits (0.35m)	87m	44m
Wild boars (0.7m)	175m	88m
Human beings (1.7m)	425m	213m
Vehicle (5m)	1250m	625m

Thank you

