



**2021**

**OUTDOOR PRODUCTS**

See the World in a New Way

# See the World in a New Way

HIKMICRO OUTDOOR PRODUCTS



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 hikmicro\_outdoor

 HIKMICRO

 HIKMICRO Outdoor

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A person wearing a dark cap is looking through a HIKMICRO thermal imaging device. The device is black and red, with the HIKMICRO logo and 'DT35' visible. In the foreground, a rifle with a scope is mounted on a tripod. The background is a blurred outdoor scene with a bright light source, possibly the sun, creating a lens flare effect.

# ABOUT HIKMICRO

HIKMICRO is a leading provider of thermal imaging equipment and solutions. Specializing in SoC and MEMS design, development, and manufacturing, the company offers thermal detectors, cores, modules, cameras and total solutions to the global market, serving customers in more than 100 countries and regions.

## 2008

**Started**  
investing in thermal technology

## 2010

Released  
**the first thermal network camera**

## 2016

**HIKMICRO was founded**  
Released a full portfolio of thermal security products with fully optimized imaging, algorithms and intelligence



## 2018

**Released 17  $\mu$ m 384x288 / 640x512 detectors**  
Released outdoor and handheld thermography products



## 2019

**Released 17  $\mu$ m 160x120 detectors**  
Released 160\*120 series products to meet the needs of niche market, such as short-range perimeter defense and indoor fire prevention



## 2020

**Released 12  $\mu$ m 256x192 / 384x288 / 640x512 detectors**  
Powerful V0x12 $\mu$ m imaging sensor presents clear and detailed pictures, and offers new experience in observation.

## 2021

**Released 12  $\mu$ m 1280x1024 detectors**  
In-house 12 $\mu$ m detectors were widely used on thermal products.

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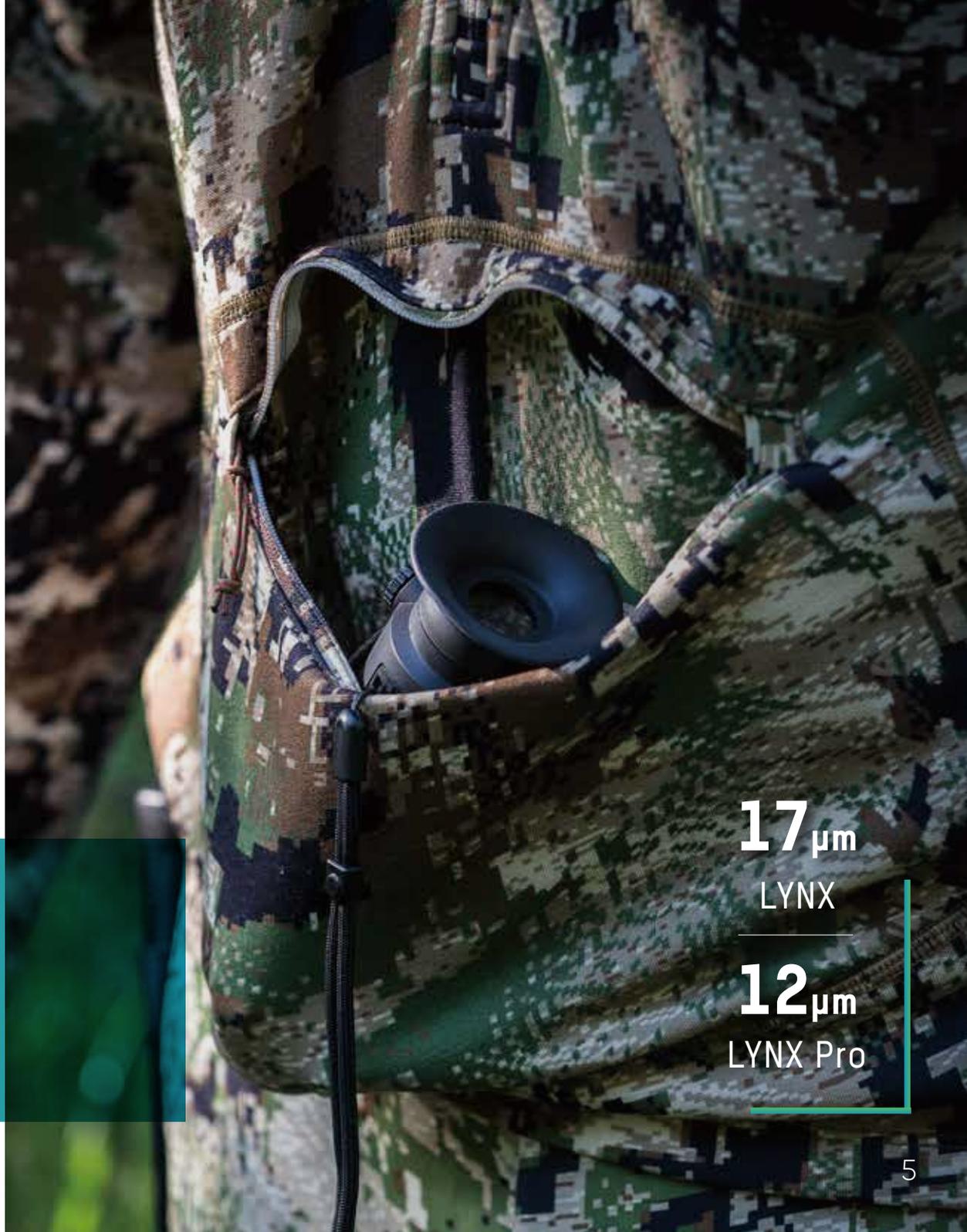
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Monocular

# LYNX & LYNX Pro

Compact Size,  
Easy to Carry



**17 $\mu$ m**  
LYNX

**12 $\mu$ m**  
LYNX Pro



## Long operating time

The design of low power consumption makes the continuous operating time up to 10 hours



## Advanced VOx 12µm Imaging Sensor

For the powerful VOx 12µm imaging sensor with NETD<35mK ensure the perfect distinction of the target and present clear and detailed pictures even in complete darkness.

## Manual Focus

Completely control the place of the focal point and observe the objects clearly at different distances.



# Wi-Fi Hot Spot for Mobile APP

Integrated Wi-Fi module makes T-Vision app as a second display. Users can remote control, adjust settings, upgrade firmware and share the wonderful moment with friends.



## Variable digital zoom

Digital zoom up to 8x offer better focus on small target from a far distance

## Video and snapshot

Onboard 16GB memory offers storage space for the snapshots and video clips.

	LYNX		LYNX Pro				
	LC06	L15	LE10	LE15	LH15	LH19	LH25
Sensor	160×120, 17 μm	384×288, 17 μm	256×192, 12 μm		384×288, 12 μm		
Focal Length	6.2 mm / F1.1	15 mm / F1.0	10 mm, F1.0	15 mm, F1.0	15 mm, F1.0	19 mm, F1.0	25 mm, F1.0
Magnification	0.6 - 2.4, ×4	0.6 - 4.8, ×8	1.0 - 8.0, 8x	1.5 -12.0, 8x	1.5 -12.0, 8x	1.9 - 15.2, 8x	2.5 - 20.0, 8x
FOV	24.7°×18.7°	24.6°×18.5°	18.0° × 13.6°	11.7° × 8.8°	17.5°×13.1°	13.8°×10.4°	10.5°×7.9°
Frame Rate	25Hz	50Hz	25Hz		50Hz		
Manual Focus	No		No			Yes	
Micro Display	0.2 inch, LCOS, 720 × 540		0.2 inch, LCOS, 720 × 540		0.4-inch, LCOS, 1280×960		
Operating Time	10 h	7 h	8 h		7.5 h		
Detection Range	250 m	550 m	500 m	750 m	750 m	900 m	1200 m
Operating Temperature	- 20 °C to 55 °C (- 4 °F to 131 °F)		- 20 °C to 55 °C (- 4 °F to 131 °F)				
Weight	250 g	270 g	260g	280g	290g	300g	310g





## Vivid and Detailed Image & Smooth Video

OWL Series equipped with an up to 640x512 pixels thermal sensor (NETD<35mK) and large aperture F1.0 lens, which provide contrasted, sharp and clear image. 50 fps full frame delivers smooth video of dynamic scenes.

## Up to 1300 m Detection Range

With high-sensitivity sensor and long-focus objective lens, OWL series can detect a 1.7m target at a distance up to 1300m

Range up to

**1300<sub>m</sub>**

Monocular

**OWL**

# Reliable and durable even in extreme environment

OWL Series benefits from high sensitivity Thermal Imaging Sensor, robust structural design, excellent environmental adaptability OLED display, and is fit for hazardous environment , even can work in low temperature of -30 degrees.



	OH25	OH35	OQ35
Sensor	384×288, 17μm		640×512, 17 μm
Focal Length	25 mm, F1.0	35 mm, F1.0	35 mm, F1.0
Magnification	1.7 - 13.6, ×8	2.3 - 18.4, ×8	1.4 - 11.2, ×8
FOV	14.9°×11.2°	10.7°×8.0°	17.7°×14.2°
Frame Rate	50Hz		
Manual Focus	No	Yes	
Micro Display	0.39 inch, OLED, 1024×768		
Operating Time	7 h		5.5 h
Detection Range	900 m	1300 m	1300 m
Operating Temperature	- 30 °C to 55 °C (- 4 °F to 131 °F)		
Weight	460g	500g	500g



## Manual Focus

Completely control the place of the focal point and observe the objects clearly at different distances.



## Variable digital zoom

Digital zoom up to 8× offer better focus on small target from a far distance

Fusion Monocular | NEW

# GRYPHON

IMAGE  
REVOLUTION



GRYPHON LRF  
GH25L/GH35L/GQ35L

GRYPHON  
GH25/GH35/GQ35

# Bi-Spectrum Image Fusion meet the needs of All day & All-weather observation

With thermal and optical images combined, the bi-spectrum image fusion function delivers a high-quality detailed image, offers a good experience of observation at whatever time in whatever weather.



+



=



## Ergonomic Design

The grip of the device is covered with lychee pattern leather, and the rounded transitional design provides a comfortable grip and an excellent operating experience.



## Advanced Technology

### 01. New Way to Control

The wheel is used for menu selection and zooming, making the operation more natural. Each rotation delivers an excellent sense of control to users.



x1



x8



## Outstanding Image Algorithm

Self-developed image algorithm optimizes image quality, bringing users a high-definition and cleaner picture, highlighting the edge of the object.



## 02. Build-in Precision Laser Rangefinder

Integrated laser rangefinder allows to determine the distance in various scenarios, which play an important role in precision shooting.

Range up to

**600<sub>m</sub>**

Accuracy of

**± 1<sub>m</sub>**

## 03. Replaceable Battery

Two batteries and HIKMICRO external battery charger are included in the package box, which give the freedom to observe as long as needed even a full day.



# 6 Image Modes

GRYPHON series provides 6 image modes for different scenarios.



## Advanced VOx 12μm Imaging Sensor

The powerful VOx 12μm imaging sensor with NETD<35mK ensure the perfect distinction of the target and present clear and detailed pictures even in complete darkness.

12 μm

IMAGING SENSOR

35 mK

NETD



## Large OLED Display

High resolution 0.39" 1024x768 OLED is capable of lower power consumption, wider viewing angle, and richer color, providing better observation experience for users.



	GRYPHON LRF			GRYPHON		
	GH25L	GH35L	GQ35L	GH25	GH35	GQ35
Thermal Sensor	384×288, 12 μm		640×512, 12 μm	384×288, 12 μm		640×512, 12 μm
NETD	< 35mK			< 35mK		
Lens	25 mm, F1.0	35 mm, F1.0	35mm / F1.0	25 mm, F1.0	35 mm, F1.0	35mm / F1.0
Magnification	2.39-19.12, 8x	3.35-26.8, 8x	2-16, 8x	2.39-19.12, 8x	3.35-26.8, 8x	2-16, 8x
FOV	10.53°x 7.9°	7.5° × 5.7°	10.97° × 8.82°	10.53°x 7.9°	7.5° × 5.7°	10.97° × 8.82°
Visible Camera	1/2" Progressive Scan CMOS, 1920×1080			1/2" Progressive Scan CMOS, 1920×1080		
Laser Rangefinder	Wavelength: 905 nm, Measurement range: up to 600 m, Accuracy: ±1 m			N/A		
Display	0.39-inch, 1024×768 OLED			0.39-inch, 1024×768 OLED		
Operating Time	Up to 6 h		Up to 4.5 h	Up to 6 h		Up to 4.5 h
Detection Range	1200 m	1800 m	1800 m	1200 m	1800 m	1800 m
Operating Temp.	-30°C ~ +55°C			-30°C ~ +55°C		
Weight	510g	510g	510g	480g	480g	480g

SCOPE

# THUNDER & THUNDER Pro

**17 $\mu$ m**

THUNDER

**12 $\mu$ m**

THUNDER Pro



# High Image Quality & Accurate Target Recognition

The powerful VOx 12 $\mu$ m imaging sensor with NETD<35mK and large aperture F1.0 lens ensure the perfect distinction of the target and present clear and detailed pictures even in complete darkness. 50 fps full frame delivers smooth video of dynamic scenes.

12  $\mu$ m

IMAGING SENSOR

35 mK

NETD

## 01. Outstanding Image Algorithm

Self-developed image algorithm optimizes image quality, bringing users a high-definition and cleaner picture, highlighting the edge of the object.



8x

## 02. Variable Digital Zoom

Digital zoom up to 8x offer better focus on small target from a far distance.

# Reliability and stability

The main body of the machine is made of high-strength plastic. The internal components are designed with precise reinforced articulation. The rail is made of 7075 aluminum alloy to ensure the high shock resistance, no deformation and no dry cracks.

## 01. IP67 Waterproof Rated

IP67 rated design creates protection from the rain, snow, even when it drops into 1 meter of the water up to 30 minutes



## 02. High Shock Resistance

Metal housing rugged components provide high shock resistance up to 750g. Compatible with calibers up to .375 H&H, 12-gauge

## Ultra Long Detection Range

With the advanced imaging sensor and large-focus objective lens, THUNDER Pro series provides incredible detection capabilities, and can detect a 1.7m target at a distance up to 2600m.

Distance up to

**2600<sub>m</sub>**

7075 aluminum alloy

	THUNDER		THUNDER Pro		
	TH25	TH35	TE19	TE25	TQ50
Image Sensor	384×288, 17 μm		256×192, 12 μm		640×512, 12 μm
Frame Rate	50Hz		25Hz		50Hz
Lens	25 mm / F1.0	35 mm / F1.0	19 mm / F1.0	25mm / F1.0	50 mm / F1.0
Magnification	1.5 - 12.8x	2.2 - 17.6, 8x	2.5 - 20.0, 8x	3.3 - 26.4, 8x	2.6 - 20.8, 8x
FOV	14.9°×11.2°	10°×8°	9.2°×6.9°	7.0°×5.2°	8.7°×7.0°
Eye relief	45mm		45mm		
Display	0.39-inch, 1024 × 768 OLED		0.39-inch, 1024 × 768 OLED		
Detection Range	900m	1300 m	1000 m	1200 m	2600 m
Operating Time	4.5 h		5 h	4.5 h	3.6 h
Weight	390 g		425 g	436 g	492 g
Operating Temp.	20°C to 55°C (-4°F to 131°F)		20°C to 55°C (-4°F to 131°F)		

ance

ents provides  
g/ms on larger  
ge and 9.3x64.

Scope

NEW

# PANTHER LRF





# Class-Leading Image Quality & Accurate Target Recognition

The powerful VOx 12 $\mu$ m imaging sensor with NETD<35mK and large aperture F1.0 lens ensure the perfect distinction of the target and present clear and detailed pictures even in complete darkness.

50 fps full frame delivers smooth video of dynamic scenes.

## Ultra Long Detection Range

With the advanced imaging sensor and large-focus objective lens, PANTHER series provides incredible detection capabilities, and can detect a 1.7m target at a distance up to 2600m.



# Integration Design and Hassle-free Operate Experience

PANTHER series adopts one-style design with compact and reasonable structure, it provides consumers with hassle-free operate experience.



## 01. New Way to Control

The wheel is used for menu selection and zooming, making the operation more natural. Each rotation delivers an excellent sense of control to users.



## 03. Build-in precision Laser Rangefinder

Integrated laser rangefinder allows to determine the distance in various scenarios, which play an important role in precision shooting.





### 03. High Shock Resistance

Metal housing rugged components provides high shock resistance up to 750 g/ms on larger calibers up to .375 H&H, 12-gauge and 9.3x64.

### 04. IP67 Waterproof Rated

IP67 rated design creates protection from the rain, snow, even when it drops into 1 meter of the water up to 30 minutes

### 05. Replaceable and Rechargeable Battery

Two batteries and HIKMICRO external battery charger are included in the package box, which give the freedom to observe as long as needed even a full day.



	PH35L	PH50L	PQ35L	PQ50L
Image Sensor	384×288, 12 μm		640×512, 12 μm	
Frame Rate	50Hz		50Hz	
Lens	35 mm, F1.0	50 mm, F1.0	35 mm, F1.0	50 mm, F1.0
Magnification	3.1 - 24.8, 8x	4.4 - 35.2, 8x	1.9 - 15.2, 8x	2.6x - 20.8, 8x
FOV	7.6° x 5.7°	5.3° x 4.0°	12.5° x 10.1°	8.8° x 7.1°
Eye relief	45 mm		45 mm	
Display	0.39-inch, OLED, 1024 × 768		0.39-inch, OLED, 1024 × 768	
Detection Range	1800 m	2600 m	1800 m	2600 m
Laser range finder	Wavelength: 905 nm, Measurement range: up to 600 m, Accuracy: ±1 m			
Operating Time	6 h		6 h	
Weight	518g	585g	518g	585g
Operating Temp.	-30°C to 55°C (-22°F to 131°F)		-30°C to 55°C (-22°F to 131°F)	



Clip-On

# THUNDER & THUNDER Pro



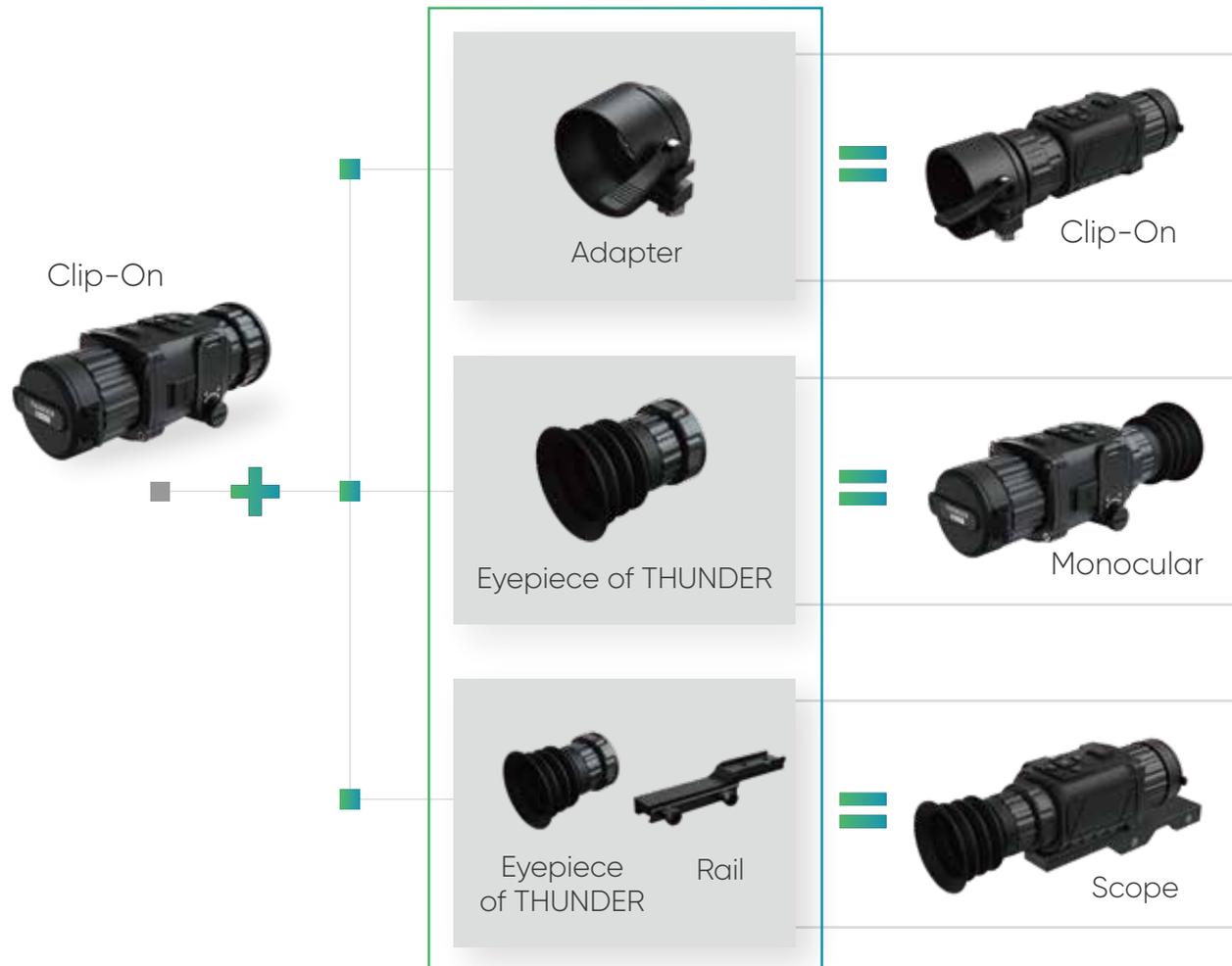
**17 $\mu$ m**  
THUNDER

---

**12 $\mu$ m**  
THUNDER Pro

# Multi-use Flexible Transformation

Replaceable eyepiece provides an easy and quick way to transform the clip-on to the monocular or scope.



**Optional Accessories**

# High Image Quality & Accurate Target Recognition

The powerful VOx 12 $\mu$ m imaging sensor with NETD<35mK and large aperture F1.0 lens ensure the perfect distinction of the target and present clear and detailed pictures even in complete darkness.

50 fps full frame delivers smooth video of dynamic scenes.



## Outstanding Image Algorithm

Self-developed image algorithm optimizes image quality, bringing users a high-definition and cleaner picture, highlighting the edge of the object.

## Central Display Menu

After being assembled with the day scope, the content of the menu will not be obstructed, providing a user-friendly operate experience of menu selection.



# Ultra Long Detection Range

With the advanced imaging sensor and large-focus objective lens, THUNDER Pro series provides incredible detection capabilities, and can detect a 1.7m target at a distance up to **2600m**.

## Reliability and stability

The main body of the machine is made of high-strength plastic. The internal components are designed with precise reinforced articulation.

### 01. IP67 Waterproof Rated

IP67 rated design creates protection from the rain, snow, even when it drops into 1 meter of the water up to 30 minutes.

### 02. High Shock Resistance

Metal housing rugged components provides high shock resistance up to 750 g/ms on larger calibers up to .375 H&H, 12-gauge and 9.3x64.

	THUNDER	THUNDER Pro	
	TH35C	TE19C	TQ50C
Image Sensor	384×288, 17 μm	256×192, 12 μm	640×512, 12 μm
Frame Rate	50Hz	25Hz	50Hz
Lens	35 mm / F1.0	19 mm / F1.0	50 mm / F1.0
Magnification	1x	1x	1x
FoV	10.0°×8.0°	9.2°×6.9°	8.7°×7.0°
Display	0.39-inch, OLED, 1024 × 768		
Detection Range	1300 m	1000 m	2600 m
Operating Time	4.5 h	5 h	3.6 h
Weight	420g	415g	492g
Operating Temp.	20°C to 55°C (-4°F to 131°F)		20°C to 55°C (-4°F to 131°F)

BINOCULAR

**TS16 & TS36**



# Bi-Spectrum Image Fusion

The bi-spectrum image fusion function merges thermal image and optical image to highlight target and delivers the high definition image with precise



## Precise Positioning—TS36

Get the distance, azimuth and coordinates of the object through **DMC & LRF**.





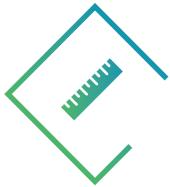
## GPS

Build-in GPS shows the altitude, longitude and latitude. Users can always easily see GPS coordinates of their location as well as their target's.



## Easy-to-Read OLED Display

High resolution 0.39" 1024x768 OLED is capable of lower power consumption, wider viewing angle, and richer color, providing better observation experience for users.



## Up to 3000m Detection Range

TS36 series provides incredible detection capabilities, and can detect a 1.7m object at a distance up to 3000m.



TS16	DS-2TS16-35VI/W	DS-2TS16-50VI/W
Sensor	640×512, 17 μm, NETD < 40mK	
Focal Length	35 mm, F1.0	50 mm, F1.0
Field of View	17.7°×14.2°	12.42°×9.95°
Visible Camera	1280 × 960	
Micro Display	0.39-inch, OLED, 1024×768	
Detection Range	1100 m	1500 m
Internal Memory	32GB (900,000 Images)	
Operating Time	7 h	
IP Rating	IP67	

TS36	DS-2TS36-50VI/W	DS-2TS36-75VI/W	DS-2TS36-100VI/W	DS-2TS36-50VI/WL	DS-2TS36-75VI/WL	DS-2TS36-100VI/WL
Sensor	640×512, 17 μm, NETD < 40mK			640×512, 17 μm, NETD < 40mK		
Focal Length	50 mm, F1.0	75 mm, F1.2	100 mm, F1.4	50 mm, F1.0	75 mm, F1.2	100 mm, F1.4
Field of View	12.4°×9.9° 8.3°×6.6° 6.2°×4.9°			12.4°×9.9° 8.3°×6.6° 6.2°×4.9°		
Visible Camera	1920×1080			1920×1080		
Laser Range Finder	N/A			Wavelength: 1550 nm, Measurement range: up to 3 km, Accuracy: 0.75 m		
Micro Display	0.39-inch, 1024 × 768 OLED			0.39-inch, 1024 × 768 OLED		
Detection Range	1500 m	2200 m	3000 m	1500 m	2200 m	3000 m
Internal Memory	32GB (900,000 Images)			32GB (900,000 Images)		
Operating Time	7 h			7 h		
IP Rating	IP67			IP67		

# ACCESSORIES

## Apply to

**THUNDER  
THUNDER Pro**

HIKMICRO  
THUNDER Series  
Eyepiece  
HM-THUNDER-E



HIKMICRO Rail  
HM-THUNDER-R



HIKMICRO Adapter

HM-THUNDER-38A  
HM-THUNDER-40A  
HM-THUNDER-50A  
HM-THUNDER-60A  
HM-THUNDER-62A



## Apply to

**THUNDER  
THUNDER Pro  
PANTHER LRF**

HIKMICRO  
Quick-release Rail  
HM-RAIL-QR01



## Apply to

**GRYPHON  
GRYPHON LRF**

HIKMICRO  
Fill Light/Bracket



## Apply to

**GRYPHON  
GRYPHON LRF  
PANTHER LRF**

HIKMICRO  
Batteries Charger  
HM-5202AZC



HIKMICRO Battery  
HM-3633DC

