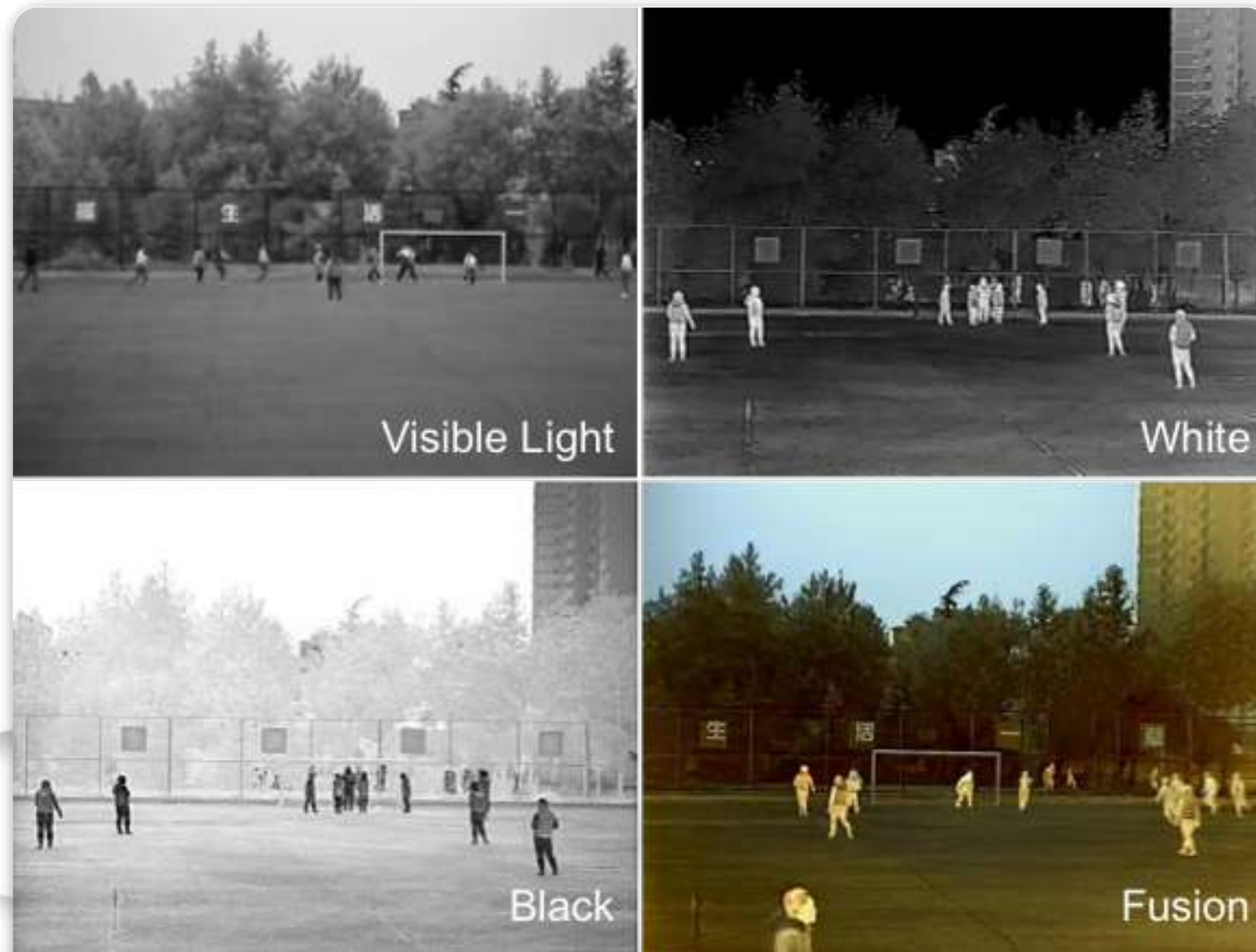




Senopex

**Dual Vision
Thermal Binoculars**

DUO



Dual Channel, Dual Vision

The DUO provides a dual-lens system for the 'thermal' and 'visible light' channels. Use it comfortable day and night, switching between 'thermal' and 'digital night vision' modes to see your targets both 'highlighted' and with details.

Built-in Laser Range Finder

Never lost your target distance in the field. The Duo offers high accuracy built-in laser range finder to measure distances with a range of more than 1200 meters. Quick reading and easy-to-use under both 'thermal' and 'digital night vision' modes.



12-Micron Technology @35mk

Cutting-edge **12 μ m** thermal technology to realize **<35MK NETD** for sharp and detailed imagery. Use it for all weather conditions with confidence.



Aircraft-grade Aluminum Alloy Housing

Hard-anodized aluminum alloy housing without any plastic parts to ensure the best durability.

HD Color CMOS Detector

1280*720 high resolution CMOS detector provides ultra-smooth digital night vision experience. Available in color mode at daytime and black/white in total darkness (or lack of ambient light).



Large Aperture F1.0 Germanium Lens

All Senopex uncooled thermal binoculars are built with **F1.0** aperture for the best result of transmissivity and overall optics system sensitivity.

Military Standard 0.5 Inch HD OLED

High resolution military standard OLED display with high optical magnification makes hunting and searching easier. The Dot is designed for an extreme temperature range of **-40°C + 60°C**.

Unparalleled Detection Range

Large aperture lens, high basic magnification and cutting-edge thermal imaging algorithm ensure the unparalleled detection range of **2.4km** for man-size targets and **4.8km** for vehicles.

More Features

Built-in Laser Illuminator

Powerful IR illuminator enables the digital night vision channel to be used with faint moonlight or even no light conditions.

Picture in Picture

PIP allows you to see targets on top center of the screen, so you can keep an eye on what you're aiming with digital magnification.

IP67 Rated

Genuine IP67 protection level with proved tests and certificate. The unit can be dropped into a body of water up to a meter deep for half an hour.

Pictures and Videos

Built-in picture and video recorder with 16G memory.

Digital Compass

Real-time built-in digital compass to know your exact direction heading for.

Hot Spot Tracking

Detect and track the hottest spot within the field of view in real-time.

DUO Dual Vision Thermal Binoculars - Technical Specifications



THERMAL DETECTOR

Detector Type Uncooled Microbolometer	Detector Resolution 640*512	NETD ≤35mK	Pixel Pitch 12μm
Spectral Range 8-14μm	Frame Rate 50Hz		

LOW-LIGHT CMOS DETECTOR

Detector Type Color CMOS	Detector Resolution 1280*720	Pixel Pitch 6μm	Frame Rate 50Hz
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Optics

Thermal Lens 50mm F1.0	FOV 12.4°x7°	Visible Light Lens 35mm	Detection Range 2.4km (Human)/4.8km(Vehicle)
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IMAGE PROCESSING

Digital Zoom X2 X4 X6 X8	Display OLED 1024*768	Image Enhancement DDE	Image Correction Non-uniformity Correction
Polarity Whitehot/Blackhot/Digital Night Vision/ Multiple Palettes			

LASER RANGEFINDER

Wavelength 905nm	Measurement Accuracy ±1m	Measuring Range 1.2km
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DUO Dual Vision Thermal Binoculars - Technical Specifications

DIGITAL COMPASS

Compass Measurement Accuracy
≤2°

POWER SUPPLY

Battery Type	Working Time
18650 rechargeable battery	6 hours

SYSTEM ELECTRICAL INTERFACE

Serial Communication Interface	Video Output	Video Format	Picture Format
RS232	VGA	AVI	JPG
Memory Card	Data Interface		
16G Built-in	USB 2.0		

ENVIRONMENTAL PARAMETERS

Working Temp.	Storage Temp.	Protection
-40°C ~ +60°C	-50°C ~ +60°C	IP67

PHYSICAL PARAMETERS

Weight	Dimensions
1.51kg	190*194*73mm



Military Standard Thermal
For Hunting & Law Enforcement

Senopex