DOT Series
Military Standard 12μm Thermal Scope

DOT A Series

384x288 @12μm Thermal Scope

DOT A3

DOT A5

DOT A7

Senopex

DOT S Series

640x480 @12μm Thermal Scope

Senopex

DOT S5

DOT S7

Without Target Enhancement

With Target Enhancement

Target Enhancement Thermal

Target enhancement algorithm to highlight targets within the field of view. Ideal for quick-detecting animals without the influence of other objects.

Multiple gain modes for all weather conditions - Detail

'Detail' mode: design for boosting the overall image quality and bringing the image details to the next level of clarity.

White

Detail

Multiple gain modes for all weather conditions - Assassin

'Assassin' mode: design for target brightness and clarity improvement while eliminating the influence of irrelevant factors. Ideal for quick detecting and searching your hunting targets in seconds.

White

Assassin

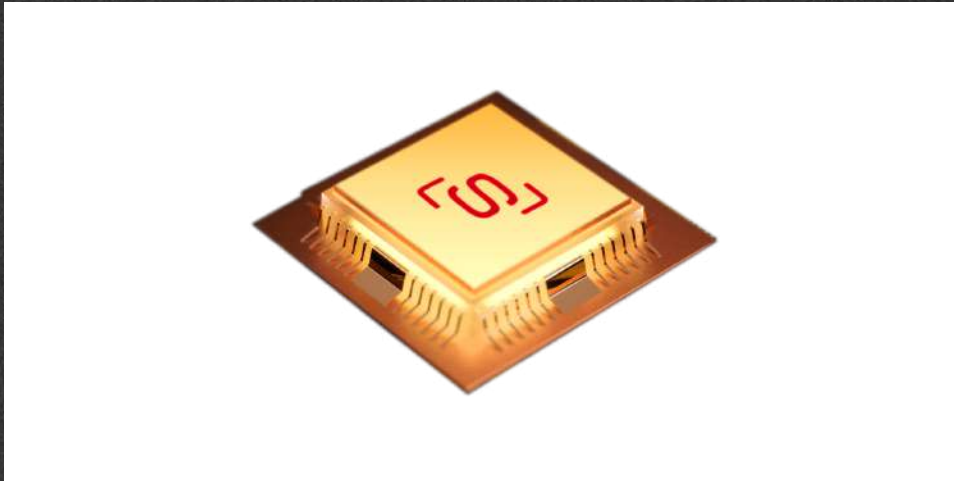White: Ground temperature: 45℃

Equator: Ground temperature: 45℃

Multiple gain modes for all weather conditions - Equator

'Equator' mode: design for identifying hot targets in the background of hot surfaces. Ideal for detecting multiple high-temperature objects in hot weather.

12-micron Technology @25mk

Cutting-edge 12μm thermal technology to realize <25MK NETD for sharp and detailed imagery. Use it for all weather conditions with confidence.

Large Aperture F1.0 Germanium Lens

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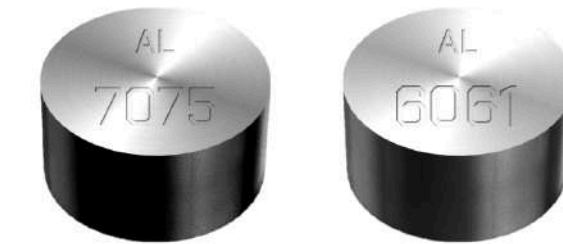

14 Hours Battery Life

Industry leading 14 hours battery life to secure you hunting journey throughout the day.

Aircraft-grade Aluminum Alloy Housing

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

32G Built-in Memory Card

Built-in 32G memory card provides enough space for taking photos and videos with HD resolution.

32 GB

1200G Recoil Rated

To withstand more than 1200G recoil to be the best shock-resistant thermal scope in the market.

1200 G

Genuine IP67 Protection Level

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.

Dual-Use

Military Standard

Design, build, assemble, and test our products to military equivalent standards with the highest reliability and quality. The longer product lifespan of more than ten years makes it the most cost-effective thermal scope in the market.

Unparalleled Detection Range

Large aperture lens, high basic magnification and cutting-edge thermal imaging algorithm ensure the unparalleled detection range of 3600m (75mm lens model)
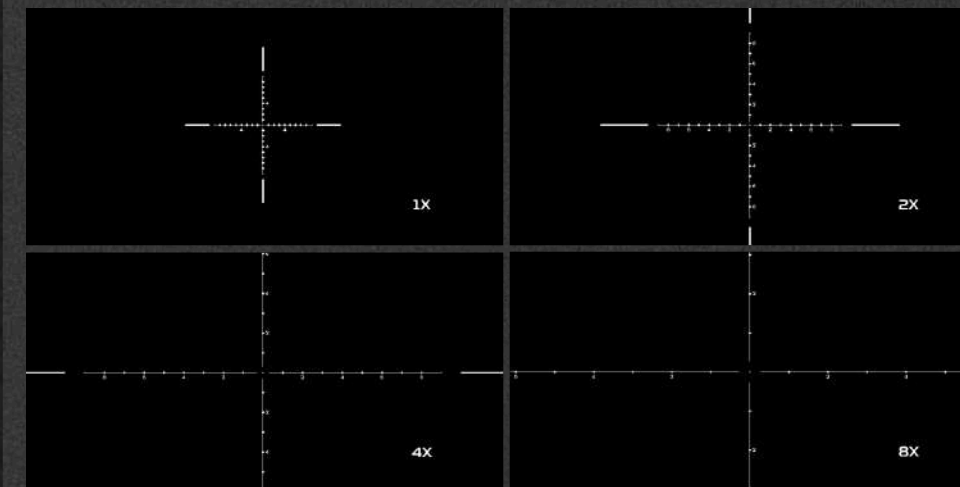

The Edge Mode

To protect your night vision during times of total darkness. The Edge mode only outline a fraction of the light of a warm object shows up in white to reduce night blindness from the screen.
Edge Detect Mode that enables users stay on target for longer periods of time with less eye fatigue and visible profile.

Scalable Reticles

Scalable ballistic style reticles present in both main screen of display and picture-in-picture mode. Aiming and shooting could be easy as a day scope.

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.

More Features

High Basic Optical Magnification

Higher than market basic optical magnification makes hunting small animals in long distance easier.

50Hz Frame Rate

High frame rate ensures vivid and flawless thermal image always displayed.

Digital Compass

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

Picture & Video Recorder

Built-in picture and video recorder with 32G memory.

Hot Spot Tracking

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

Roll & Pitch

Dynamic roll & pitch stats presented in the middle of screen.

Customizable Reticles

Selections of 6 types of reticles with customizable color options.

Auto Shutdown

The device will automatically switch off after the device is idle. You may change the time of settings according to your own preference.

DOT Series Thermal Scope - Technical Specifications 1

MODEL	A3	A5	A7	S5	S7
THERMAL DETECTOR					
Detector Type	Uncooled microbolometer				
Detector Resolution	384*288	384*288	384*288	640*480	640*480
Pixel Pitch	12μm				
NETD	≤35mK	≤35mK	≤35mK	≤25mK	≤25mK
Spectral Range	8-14μm				
Frame Rate	50Hz				
LENS SYSTEM					
Objective Lens	35mm F1.0	50mm F1.0	75mm F1.0	50mm F1.0	75mm F1.0
FOV	7.5°x5.6°	5.3°x4°	3.5°x2.6°	8.8°x6.6°	5.9°x4.4°
Magnification	3.5x	4.5x	7x	3x	4x
IMAGE PROCESSING					
Display	OLED 1024*768				
Mode	White/Boost/Detail/Background/Assassin/Equator/Black/Edge/Iron				
Reticle	Up to 7 Reticles (including no reticle)				
Digital Zoom	X2 X4 X6 X8				
PiP	✓	✓	✓	✓	✓
Targets Brightness	✓	✓	✓	✓	✓
Hot Spot Tracking	✓	✓	✓	✓	✓

DOT Series Thermal Scope - Technical Specifications 2

MODEL	A3	A5	A7	S5	S7
PERFORMANCE & APPLICATION					
Detection Range	1700m	2400m	3600m	2400m	3600m
Shock Resistant			1200G		
POWER SUPPLY					
Battery			Two 18650 rechargeable batteries (customizable for low temp.)		
Working Time			≤14 hours		
PHOTO & VIDEO					
Photo Format			.jpg		
Video Format			.avi		
Resolution			1024*768		
Memory Card			32GB built-in		
ENVIRONMENTAL PARAMETERS					
Working Temp.			-40°C ~ +60°C		
Storage Temp.			-45°C ~ +65°C		
Protection			IP67		
PHYSICAL PARAMETERS					
Weight	≤650g	≤706g	≤913g	≤706g	≤913g
Dimensions	236*53*80mm	251*70*91mm	285*90*110mm	251*70*91mm	285*90*110mm