

Aurora-Hybrid Clip-On Scope

The Aurora-Hybrid Clip-On Scope is an augmented vision, weapon-mountable system for tactical surveillance, observation and engagement at short- and medium-range distances.

Along with selecting between visible/near-infrared and far-infrared (thermal) channels individually, the unique patented technology allows to the unit to produce and display real-time, delay-free hybrid images that superimposes all ranges of the spectrum from its sensors to successfully detect any target and defy poor lighting or weather conditions. The wide field of view also allows for better situational awareness.

The unit is small and lightweight, and yet made of a hard-anodized aluminum for added strength and shock resistance. The side and top weaver rails allow the user to attach additional equipment such as a reflex sight, laser rangefinder, IR illuminator, and more.

The Aurora-Hybrid Clip-On Scope is fully compatible with various weapon mounting systems and can also be used as a hand-held or tripod mounted observation device.

KEY FEATURES

- 100% Target Detection Capability
 Simple Pairing with Daytime Optics
- Multi-Mode 24/7 Operation
 High Situational Awareness
- Auto-NUC: No Calibration Needed Universal Power Solution









MAIN APPLICATIONS

- Defence Security
- Border PatrolSpecial Forces
- Surveillance
 Reconnaissance



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TECHNICAL DATA			
SYSTEM	FOV	17.7°x13.3°	
	Optical Zoom	1X	
	Stow Safety Feature (SSF)	Equipped °	
	Stadiametric Rangefinder (SRF)	Equipped	
	Collimation with Dayscope	Electronic	
	Dayscope optimal power range	3X 9X	
	Detection Human (1.7x0.5m)	Up to 1160m	
	Detection Vehicle (2.3x2.3m)	Up to 1570m	
	Integrated Laser	Optional: 655nm or 850nm (user's choice)	
THERMAL CHANNEL (LWIR)	FPA Type	a-Si Microbolometer, Uncooled, Shutterless, Auto-NUC	
	FPA Spectral Range	7μm 14μm	
	FPA Sensitivity	<60mK _	
	FPA Gain	Manual/Automatic	
	FPA Resolution	640x480, 17µm pitch	
	FPA Refresh Rate	50Hz	
	Digital Zoom	2X, 4X	
	Objective Lens	f/1.0	
	Polarity Control	Black Hot / White Hot	
	Imaging Modes	1 Monochrome and 8 Pseudo-Colours	
	Digital Detail Enhancement (DDE)	Yes	
	High Dynamic Range (HRD)	- Yes	
DAY/NIGHT CHANNEL (VNIR)	Sensor Type	CCD	
	Sensor Size	1/3"	
	Resolution	800x600	
	Sensitivity	Up to 0.1Lux	
	VNIR Modes	Day/Night	

	TECHNICAL DATA CONTINUED			
DISPLAY	Display Type	Full Size: 0.6-Inch, Colour, AMOLED, 800x600		
LAY	Display Brightness Control, Contrast	Manual, >10000:1		
IMAGE FUSION	Туре	Real-time, Electronic		
	Fused Channels	LWIR + VNIR		
	Parallax Compensation	Electronic, Adjustable		
	Heat Signature Opacity Range	User Adjustable: 0% 100%		
	Power Supply	Power Sources		
	Quick Swap Battery Packs	Each holds 4xAA (Lithium)		
	External Power Source Voltage Range	5V 15V		
	Autonomy on 4 AA Batteries	Up to 7 hours		
	Video Output	CVBS 1Vpp @ 75 Ohm		
	Operating Temperature	-40°C +50°C		
	Storage Temperature	-50°C +60°C		
	Dimensions, mm	190x91x70		
	Weight, grams	790		
	Mounting Type	Low Profile/Picatinny or On-Scope (user's choice)		
	Environmental Protection	IP66 or Better (Optional)		
	Digital Video Recorder	Optional: Built-in or External		
	Export	Available Worldwide *		

*Export Permit required. Darksky can assist in obtaining the required permit



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High Dynamic Range (HDR)





Off On HDR improves detection capabilities in challenging thermal/fusion scenes, such as hot objects on cold background, where details of the background are not distinguishable.

Digital Detail Enhancement (DDE)





Off

Medium Level



High Level

DDE is an advanced non-linear image processing algorithm that sets the desired level of image sharpness to help better distinguish details of an object/background.

STANDARD KIT CONTENTS: WHAT'S IN THE BOX



Main Unit (comes with lens cover)



Quick-Swap
Battery Holders



USB Power Cable



Video-Out Cable



Soft Carrying
Pouch



Hard Waterproof
Case



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OPTIONAL ACCESSORIES



Built-In Video Recorder (comes with 32GB microSD card and SD adapter)



External Video Recorder with SD Card



Wired Remote Control with Video-Out



Video-Out to USB Adapter