

NIGHT**⇔**PTIX™

Aurora-Hybrid Goggles

The Aurora-Hybrid goggles are augmented vision goggles for tactical surveillance and observation at short- and medium-range distances. Along with selecting between visible/near-infrared and far-infrared (thermal) channels individually, Unique Patented technology allows the unit to produce and display real-time, delay-free fusion images that superimpose all ranges of the spectrum from its sensors to successfully detect any target and defy poor lighting or weather conditions. Wide field of view allows for better situation awareness. The unit is small and lightweight, and yet made of a hard-anodized aluminum for added strength and shock resistance. The unit is compatible with most head gears and helmet mounts for hands-free operation.











KEY FEATURES

- 100% Target Detection Capability
- Dual-Eye Observation
- Multi-Mode 24/7 Operation
- High Situational Awareness
- Auto-NUC: No Calibration Needed
- Universal Power Solution

MAIN APPLICATIONS

- Defence
- Security
- Border Patrol
- Special Forces
- Surveillance
- Reconnaissance



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TO	Optical Magnification	1X
OPTICAL PARAMETERS	Field of View	24.5°x18.5°
OPTICAL RAMETEI	Focusing Range	0.5m Infinity
Ħ ¥	Eyepiece	Dual
RS	Eyerelief	Min. 20mm
	Digital Passive Stadiametric Rangefinder (SRF)	Yes
Ŋ	Digital Detail Enhancement Feature (DDE)	Yes
TSY	Digital Edge Detection Feature (DED)	Yes
E	Wide Dynamic Range Feature (WDR)	Yes
PAR	Stow Safety Feature (SSF)	Yes
SYSTEM PARAMETERS: CAPABILITIES AND SPECIAL FEATURES	Integrated 9-Axis Absolute Orientation HUD (Heads-Up Display)	Optional: 3-Axis Sensors - Magnetometer, Accelerometer and Gyroscope
ERS	Integrated Compass	Optional
: CA	Pitch / Roll / Azimuth Indications	Optional
PAE	Power Saving Mode	Yes
SIL I	Real-Time Date-Time Stamp	Yes: Simplified, Extended, DTG Formats
TIES	Digital Video Recorder with Real-Time Stamp	Optional: Comes with Removable 32GB microSD Card
AND	Detection Capability: Man (1.7x0.5m) / NATO Target (2.3x2.3m)	830m / 1130m
SPE	Hand-Held Configuration	Yes
CIA	Tripod-Mountable	Yes
ᇤ	User Profiles (Configurable)	Yes: 8
ΑT	Automatic/Manual Pixel Masking	Yes
뮲	Reset to Factory Defaults	Yes
S	External Video Feed Protection	Yes
	Automatic Power Down Control	User-Configurable: 10 60 minutes of inactivity
l	FPA Туре	Uncooled, a-Si, Shutterless, Silent, Auto-NUC (Uninterrupted Operation)
THERMAL (LWIR)	FPA Resolution and Pitch	640x480, 17μm
RMAL (LW	FPA Sensitivity (NETD)	<40mK
NI (FPA Refresh Rate	50Hz
μ [Μ	Digital Zoom	1X, 2X, 4X
3	Imaging Modes	Monochrome (White-Hot / Black-Hot) and 8 Colour Palettes
	Sensor Type	High-Performance CCD
YAC	Sensor Size	1/3"
H N	Resolution	800x600
DAY/NIGHT (VNIR) CHANNEL	Sensitivity	Up to 0.1Lux
£ 3	Night Boost Mode	Yes
IR)	VNIR Modes	Day/Night
		•

DISPLAY	Internal Display	Full Size: 0.5-Inch Diagonal, Dual- AMOLED, Colour, 800x600
LΑΥ	Internal Display Contrast	>10000:1
=	Туре	Real-time, Electronic
/IAG	Fused Channels	LWIR + VNIR
E	Parallax Compensation	Electronic, Adjustable
IMAGE FUSION	Heat Signature Opacity Range	User Adjustable: 0% 100%
	Accepted Batteries	4 (Four) AA: Lithium Recommended
	Universal Port	Video-Out, Remote Control and External Power (4VDC 15VDC)
V R CT	Video Output Signal	CVBS 1Vpp @ 75 Ohm
ON ROS	Battery Life on 4x AA	Up to 7 Hours
MEN	Environmental Protection	Min. IP67, Nitrogen-Purged Housing
ITAL	Dimensions	152x132x59mm
무무	Weight	650 grams
AT IA	Operating Temperature	-40°C +50°C
ELECTRONICS, MECHANICAL, ENVIRONMENTAL FEATURES	Storage Temperature	-55°C +65°C
S L	Body Material	Hard-Anodized Aluminum
	Warranty	5 Years, Limited

Aurora-Hybrid products are
Available for Export Worldwide.
Export Permit Required. Nightoptix
provides assistance in obtaining
the Permit.





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	STANDARD EQUIPMENT: WHAT'S IN THE BOX
1	Aurora Hybrid Goggles
2	Mounting Bracket (Installed: Bayonet or Adjustable Dovetail)
3	Rubber Eyecups (Installed on the device) + Spares
4	Protective Lens Covers (Installed on the device)
5	USB Power Cable (5-pin to USB)
6	Video-Out Cable (5-pin to RCA)
7	Quick Swap Battery Containers (AA)
8	Neck Cord
9	Soft Carrying Pouch
10	User Manual
11	5-Year Warranty
12	Waterproof Hard Carrying Case
13	Cleaning Kit (3-in-1 Multi-Pen + Cleaning Cloth)

	OPTIONAL EQUIPMENT
Α	Universal Remote Control Unit TRC120 (Comes with connection cable)
В	Advanced Low-Profile Flip-Up Helmet Mount HM-714LP-SR-D: Shroud-Ready Mount. Adjustable
	Dovetail Socket. Comes with Allen Keys Set.
С	Advanced Low-Profile Flip-Up Helmet Mount HM-714LP-SR-P: Shroud-Ready Mount. Adjustable
	Bayonet Socket. Comes with Allen Keys Set.
D	Non-Flip-Up Head Gear PHG-7 (Bayonet Type only)
E	Advanced Helmet Mount Harness HMH-1
F	Universal Multi-Voltage Battery Pack MVP-240 (Comes with connection cable)
G	Built-In Digital Video Recorder TT/H-DVR-INT (Comes with 32GB microSD card and SD adapter)
Н	External Digital Video Recorder TT/H-EDVR (Comes with set of cables and 32GB SD card)
ı	Portable Head-Mounted Display HMD-800-MOD (streams thermal video directly from the device,
	comes with connection cable)
J	Integrated 9-Axis Absolute Orientation HUD (Heads-Up Display), 3-Axis Sensors for Compass
	Reading, Inclinometer/Pitch Reading, and Level/Roll Reading