



H SERIES

Vision equipment for professionals

HIGH TECHNOLOGY MEETS EXCELLENCE

The **H SERIES** offers the **most modern sensors** and gives the possibility to have a **complete long range multispectral vision** in any environmental condition 24/7.

The **H SERIES** is designed to be used for various marine and land applications like SAR (Search and Rescue), law enforcement, high-speed patrol craft, all the types of vessels and harbour control.

The camera can provide **equally clear**, high resolution long range view in **total darkness**, as well as in **bright sunlight**.

The device has been designed to be **integrated** and connected **to most of the existing on-board instruments** to provide a single safety and control system.

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H SERIES

RAPTOR

ULTRA HIGH LONG RANGE HI-SENSITIVE COOLED VISION SYSTEM

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SENSOR	MWIR FPA Cooled
FIELD OF VIEW	HorizFov=36°. VertFov=30°. (@ Wide Zoom) HorizFov=1.8°. VertFov=1.5°. (@ Narrow Zoom)
RESOLUTION	640 x 512-327680 pixel -15um pitch.
NETD	NETD < 20 mk @ Whole Band
SPECTRAL RANGE	Medium Wave Broadband 3 to 5um
LENS TYPE	Athermalized - Diamond Surface Coating Treatment
ZOOM	20X Continuous Focal Length From 15 Up To 300mm
FRAME TECHNOLOGY	Shutterless Technology
FRAME RATE	Full Frame Rate From 50 - 100Hz
START-UP COMPLETION TIME	<8 min. @25°C
DIGITAL SIGNAL PROCESSING	Starlight DSP CALDERATM
IMAGE PROCESSING	Color Palette For Enancement Contrast, White Hot, Black Hot, Atomatic ACG, Human Search Algorithm, Smart NUC, Starlight 4D-DNR

DAYLIGHT AND ULTRA LOW LUX COLOR CAMERA	
TYPE	Optical Zoom Ultra Low Lux Color Camera
SENSITIVITY	0,0003 Lux @ Color
OPTICAL FIELD OF VIEW	HorizFov=52°. VertFov=30°. (@ Wide Zoom)
SENSOR	HorizFov=1.4°. VertFov=0.8°. (@ Narrow Zoom) Starlight Color SuperChip
SENSOR RESOLUTION	1920 x 1080 P
WINDOW TYPE	Self-cleaning Photocatalytic Glass
OPTICALZOOM	40X Continuous
DIGITAL ZOOM	10X Combined 400X

SWIR CAMERA (Optional)	
TYPE	SWIR - NIRIII Starlight™
SENSOR RESOLUTION	720 x 576 PAL 25Hz
OPTICAL ZOOM	40X Continuous (Optional)

LIGHT INTENSIFIER CAMERA (Optional)	
SENSOR	SuperGen Intensifier Starlight Electron Tube
SENSOR RESOLUTION	> 60 plmm
SENSITIVITY	<0.000001 Lux
WINDOW TYTE	Electron Beam Treated Sapphire Autocleaning Glass
VIDEO FORMAT	720x576 PAL 25HZ
OPTICAL ZOOM	20X Continuous (Optional)

GYRO STABILIZATION	
GYRO STABILIZATION TYPE	6 Axis Electro-Meccanical Ultra Fast Gyro Stabilization < 1mRad - Pitch (Pan Gyrocomp. Slaved - Optional)
AUDIO/VIDEO RECORDING	
RECORDER TYPE	Audio (Optional) Video Integrated Solid State Recorder
MICROPHONE TYPE	Pre Amplified Electret
MICROPHONE IP GRADE	IP 68 External
DIGITAL NOISE FILTER	Digital Background Noise Filter
INTERFACES	
RADAR	Radar Slaving
GYRO COMPASS	Gyro Compass Slaving
AIS	AIS Targeting - Traking (Optional)
GENERIC	NMEA 0183, NMEA 2000 (Others On Demand)
SUPPORTED PROTOCOL	TCP/IP, RS-232, RS-422, NMEA 0183, NMEA 2000, Pelco D
LASER RANGE FINDER (OPTIONAL)	
RANGE	Max. 30 km (Optional)
IR LASER POINTER (OPTIONAL)	
POWER	Max. 150 mW
CLASS	3b
OTHERS	
PAN TILT RANGE	360° Continuous PAN; 360° TILT
PAN/TILT SPEED	0°- 100°/S (Settable)
VIDEO OUTPUT	DVI/VGA/HDMI (IP H264 Optional)
DISPLAY	19" ISP Led Touch Monitor (Optional)
IMAGE PROCESSING	Video Grabbing, Recording, Multiview Real Time, PIP, Video-analysis, AIS Targeting Traking, Video Traking, Video Multipoint Regulation, Multi Spectral Merging (Optional)
JOYSTICK	Heavy Duty Proportional Multi Axis Joystick
VOLTAGE	9-36 VDC IEC60945
CONSUMPTION	300 W max.
IP GRADE	IP 68 External Unit
EXT. ENCLOSURE MATERIAL	Metallic-High Strenght Anticorodal Aluminium Alloy Non Metallic-Composite Materials
ANTI CORROSION COATING TREATMENT	Strontium Cromate Polymeric Coating Ultra High Deep Anodization Treatment 30um
EXTERNAL UNIT DIMENSION	482 x 290 x 290 mm
EXTERNAL UNIT WEIGHT	< 20 kg
INTERNAL UNIT DIMENSION	360 x 210 x 130 mm
THERMAL DISSIPATOR	Fanless
OPERATING TEMPERATURE	-30° + 65°