



STARLIGHT  
ITALIA

# 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

<b>tt</b>	
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 Enhancement Contrast, White Hot, Black Hot, Automatic ACG, Human Search Algorithm, Smart NUC, Starlight 4D-DNR

<b>DAYLIGHT AND ULTRA LOW LUX COLOR CAMERA</b>	
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
OPTICAL ZOOM	40X Continuous
DIGITAL ZOOM	10X Combined 400X

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

<b>LIGHT INTENSIFIER CAMERA (Optional)</b>	
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)

<b>GYRO STABILIZATION</b>	
GYRO STABILIZATION TYPE	6 Axis Electro-Meccanical Ultra Fast Gyro Stabilization < 1mRad - Pitch (Pan Gyrocomp. Slaved - Optional)

<b>AUDIO/VIDEO RECORDING</b>	
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

<b>INTERFACES</b>	
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

<b>LASER RANGE FINDER (OPTIONAL)</b>	
RANGE	Max. 30 km (Optional)

<b>IR LASER POINTER (OPTIONAL)</b>	
POWER	Max. 150 mW
CLASS	3b

<b>OTHERS</b>	
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 Merg- ing (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°