



## EO/ULL/IR CAMERA PAYLOAD

### Features

- Light weight
- Twin Sensor
- Ruggedized for maritime application
- Multiple Video Output
- CVBS-IP Ethernet Video Output
- Multi control features



# Horus

## ABOUT HORUS

The **HORUS Serie** is the latest lightweight and compact multi sensor pan tilt camera system from Starlight Italia and is first affordable micro PTZ camera designed for use on any vessel.

The unit features an integrated high sensitivity thermal camera with 4x digital zoom together an HD iper-ultra low-lux color camera with amazing capability to see in the dark, in a compact rugged marine housing.

The **Horus Serie** combine all these features into a compact, lightweight metal housing.

The marine ptz base also features continuous 360 degree pan rotation and +/- 60 degree tilt so you never miss the action. The system can be mounted right side up or inverted which greatly expands the mounting possibilities on today's complicated vessels.



Black & White

Iron

Rainbow



Human Body Detect

Anti Rain

## NAVIGATIONAL AID

The camera can provide equally clear, high quality images in total darkness, as well as in bright sunlight.

The ability of **Horus** thermal sensor Serie to see in the dark gives you clear vision in total darkness and makes it an ideal aid to navigation and goes complement your existing radar to give you 360 degree visibility.

While radar will spot potential targets, the **HORUS Serie** will actually give you a detailed video image of what may be lurking up ahead.

The compact system works instantly upon being powered up and needs no calibration or special setup.

## MARINE SECURITY & SAFETY

The high seas can be a harrowing place to travel. This camera is so versatile it works in any conditions, making it perfect for border patrol, homeland security & detecting possible pirate ships from kilometers away.

Detect the dangers of sea travel and adjust course long before the bad guys get to you, so you make it to your destination safely with your cargo intact. This camera can also protect you from colliding with unseen objects in the dark.

## MAN OVER BOARD RESCUE AND SAR OPERATION

Horus Serie thermal sensor produces a crystal clear video image day or night regardless of lighting or weather conditions. Moreover the color palette function provides a choice of color scheme and four different thermal discrimination algorithm help quickly distinguish thermal variation of a human body floating in water and are so valuable to locating and rescuing stranded boaters in a man overboard situation that it should be required equipment on all vessels, large and small. This can greatly reduce the time needed to spot a victim overboard, especially in the dark of night.





# HORUS SENSORS



## THERMAL CAMERA

SENSOR	Silicon CMOS Uncooled Chip
FIELD OF VIEW	HorizFov=25°. VertFov=19°@ Wide Zoom Focal Length 25 mm
RESOLUTION	640x512- 327700pixel -17µm pitch.
NETD	NETD <30mk @ Whole Band
SPECTRAL RANGE	Longwave Broadband – LWIR/VLWIR 8-14 µm Spectral Response
FOCAL LENGTH	25/35 mm (Different Focal Length on Request)
LENS TYPE	Athermalized – Diamond Surface Coating Treatment –
ZOOM	Ultra Digital Continuous 4X
FRAME THERMAL TECHNOLOGY	Solid State ShutterlessAnd TEClessTechnology
FRAME RATE	Full video rate 50-60 Hz-Thermal FrameRate Up to 120Hz Full Resolution
DETECTION RANGE	1Km-man; 3Km- Small Vessel @ 25mm Focal Length – (Others On Request)
IMAGE PROCESSING	7 Palette Color – 2 Human Body Search Algoritms – Fog Filter- Rain Filter

## ULTRA LOW LUX COLOR CAMERA

TYPE	Ultra Low Lux Color Camera
SENSITIVITY	0,01 lux @ Color
NUMBER OF CAMERAS	1
FIELD OF VIEW	HorizFov=30°. VertFov=30°. (@ wide zoom)
SENSOR	SuperChip II SSNR III
SENSOR RESOLUTION	1024 x 1280 lines
WINDOW TYPE	Self-CleaningPhotocatalytic Glass

## OTHERS

PAN TILT RANGE	360°Continuous PAN;± 60° TILT
PAN/TILT SPEED	30°/Sec
VIDEO OUTPUT	COMPOSITE SIGNAL
JOYSTICK	Proportional 2 Axis Joystick
VOLTAGE	9-36 V DC
CONSUMPTION	20W
IP GRADE	IP68External Unit
EXT. ENCLOSURE MATERIAL	Metal- High Strenght Aluminium Alloy
ANTI CORROSION TREATMENT	Ultra High Deep Anodization Treatment 30 µm
ANTI CORROSION COATING	Strontium Cromate PolymericCoating
EXTERNAL UNIT DIMENSION	Ø130 x 230 mm
EXTERNAL UNIT WEIGHT	2,5 kg
JOYSTICK BOX DIMENSION	80 x 120 x 80 mm
SHOCK ABSORBER	Ti-AISI 316 Aluminium plate



**Starlight Italia** is a provider of marine security, marine safety and marine solutions to world wide customers. Since 2005 Starlight Italia was one of the first company in the world, to complete certification product from IMO, (MED) with the very stringent requirements for night vision installations on High Speed Craft ferries. During our history we have installed more than 100 night vision systems around the world.

Starlight Italia NVS help customers with their critical needs in:

- Detection of vessels, obstacles, people and other objects
- Decision and action through warnings or triggering pre-defined action after detection in darkness of threat or possible collision

Solutions Starlight Italia NVS ultra-low light cameras, image intensifiers and thermal sensors to enhance surveillance and detection capability

Starlight Italia products are designed to operate continuously for long periods in hard marine conditions.

Starlight Italia's products can satisfied all clients requirements and specifications providing a wide scale of product configuration and price.



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