STARLIGHT

EO/ULL/IR/NV CAMERA PAYLOAD

Features

- Light weight
- Multiple choice of sensor
- Ruggedized for maritime application
- Operator interface unit
- Multi-format video outputs
- Radar slaving
- Gyrostabilization



X S E R E

FEATURES

X SERIE marries mechanical and electro-optical engineering to provide users with discrete self-contained systems.

Navigation:

The X SERIE multi sensor payload boasting of thermal imaging, night vision based on 2A+ light amplification tube and optical day camera to provide unparalleled, hazard detection, threat assessment and situational awareness 24/7.

Operator Interface:

A range of operator control panels are available that enables X SERIE systems to be integrated both in new and existing ship configurations.

Gyrostabilization

The X SERIE is equiped, as option, with gyro platform, based on a proprietary software.

The X SERIE is designed to be used for various marine applications like SAR (Search and Rescue) boats, law enforcement vessels, high-speed patrol craft and other types of vessels.

The camera can provide equally clear, hight resolution video in total darkness, as well as in bright sunlight.

You can even see through smoke and fog.

The camera module is actively stabilized to counteract the motion of the ship and providing a live video feed.

The X SERIE can be completely custom built to meet your exact requirements.

Options include, but are note limited to, night vision camera, uncooled thermal cameras, ultra low-lux cameras, zoom low-lux cameras, radar integration, gyro stabilization, video computing and more.

MAIN APPLICATIONS:

1. SAR (Search and Rescure) operations:

- Quick and easy search for anomalies even on rough sea conditions.
- Safe and exact navigation during the SAR operation.
- Recording SAR or MOB operations.

X SERIE system create new opportunities for SAR oprations and makes them more safe and effective.

2. LAW ENFORCEMENT

- Law enforcement, speedboat, police thermal marine cameras.
- Night vision and navigation systems.
- Identification of the vessles at limited visibility.
- Detection illegal traffic on sea and pollution monitoring.
- Detecting unexposed boats and blind pilotage assitance.
- SAR operations.

X SERIE camera system provides the opportunity to identify the vessels at night and in poor visibility and on rought sea conditions.

3. ICE DETECTION

Ice and iceberg detection thermal marine cameras and night vision..
X SERIE camera system for ice detection ensures highers safety even in rough sea conditions and at night.

The camera system gives a much broader and more accurate live video feed of the location of ice bank compared to the commonly used information provided by the radar and the narrow search light.



	SX NIGHTHAWK	SX NIGHTHAWK PRO	SX PL 640	SX IR FORCE	SX STARLIGHT ONE FB DESIGN
360° Continuous Pan					
360° Continuous Tilt					
3 Axis Joystick					
Proportional Touch Joystick					
Embedded DVR	-		118 50		
Ultralow-lux day color camera					
Light Intensifier Electron Tube		1 (120			
High-Sensitivity Thermal Camera				Park and the second	
Ultra-Sensitivity Shutterless Thermal Camera				• (4)	
Day Camera Optical Zoom					
Thermal Camera Digital Zoom			75 ·		7/200 Z
Auto Image Reversal Function					THE REAL PROPERTY.
OSD Multi-touch Function					
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Radar Slaving	The state of the s			•	
Gyro Stabilization			•	•	
Multi Input Platform	NI CONTRACTOR OF THE PARTY OF T	0.78		0	
Embedded UPS Aided					

X-SERIE SENSORS

THERMAL CAMERA SX PL640: FEATURES

FIELD OF VIEW / CAMPO VISIVO HorizFov=34°. VertFov=26°. (@ wide zoom) SENSOR / TIPO SENSORE Uncooled FPA Microbolometer 640x480 **RESOLUTION / RISOLUZIONE** NETD ≤ 60mK **NETD / SENSIBILITA' TERMICA** SPECTRAL RANGE / INTERVALLO SPETTRALE 8-14 µm FOCAL LENGTH / LUNGHEZZA FOCALE 18 mm FRAME RATE / FREQUENZA DEI FOTOGRAMMI ≥ 2511z **DIGITAL ZOOM** X1/X2/X3/X4 CALIBRATION AUTO YES **DIGITAL FILTER GAIN/BRIGHTNESS ADJUSTMENT** FULL AUTO - BLACK / WHITE VIEW **OPERATION TEMPERATURE** -20°C / +60°C

THERMAL CAMERA SX IR FORCE / SX ONE FEATURES

FIELD OF VIEW / CAMPO VISIVO HorizFov=25°. VertFov=19°. (@ wide zoom) SENSOR / TIPO SENSORE Silicon CMOS Uncooled Microbolometer Chip RESOLUTION / RISOLUZIONE 640x480 - 307200 pixel -17µm pitch. NETD / SENSIBILITA' TERMICA NETD <40mK @ Whole Band SPECTRAL RANGE / INTERVALLO SPETTRALE Longwave Broadband > 7µm FOCAL LENGTH / LUNGHEZZA FOCALE 25/35 mm LENS TYPE ATHERMALIZED - DIAMOND SURFACE TREATMENT ZOOM ULTRA DIGITAL UP TO 8X FRAME RATE / FREQUENZA DEI FOTOGRAMMI Shutterless Technology → from 30 up to 100 FPS **DETECTION RANGE / CAMPO DI RILEVAMENTO** Up to 1 Km-Man /3 Km-Small Boat @ 25mm Focal Length **HUMAN TARGET / BERSAGLIO UMANO** 1 Km **DIGITAL SIGNAL PROCESSING** DSP STARLIGHT CALDERA™ VIDEO REFRESH RATE /FREQUENZA AGGIORNAMENTO - ACQUISIZIONE 50-60 Hz Video Grabbing, Recording. Multiview Real IMAGE PROCESSING / ELABORAZIONE IMMAGINI Time, PIP, Videoanalysis, Computer Graphica



X-SERIE SENSORS



LIGHT INTENSIFIER CAMERA X-SERIES_NIGHTHWAK / EVO FEATURES

SENSITIVITY 0,000001 lux

FIELD OF VIEW / CAMPO VISIVO HorizFov=30°. VertFov=30°

SENSOR / TIPO SENSORE SuperGen. Intensifier Electron Tube Starlight

Electron Beam Treated Sapphire Glass

FEATURES

FEATURES

1000 lines

RESOLUTION / RISOLUZIONE > 60 plmm

ULTRA LOW LIGHT COLOR CAMERA ALL MODELS

SENSITIVITY 0,00005 lux @ color

FIELD OF VIEW / CAMPO VISIVO HorizFov=30°. VertFov=30°. (@ wide zoom)

SENSOR / TIPO SENSORE SuperChip II SSNR III Starlight

RESOLUTION / RISOLUZIONE 1000 lines

ULTRA LOW LIGHT ZOOM SX IR FORCE / SX ONE

WINDOW TYPE

RESOLUTION / RISOLUZIONE

OPTICAL ZOOM 20X

DIGITAL ZOOM COMBINED 40X

SENSOR / TIPO SENSORE SuperChip II SSNR III Starlight

OTHERS FEATURES

PTZ PAN TILT RANGE 360° CONTINUOS

PTZ PAN SPEED 0°- 100°/S

VIDEO OUTPUT DVI / VGA / HDMI / COMPOSITE SIGNAL

VIDEO FORMAT PAL (NTSC)

VOLTAGE 9-36 V DC

CONSUMPTION 50W IP GRADE IP 67

DIMENSION 180X180X310 mm

WEIGHT 4.9 kg

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.



