STARLIGHT
ITALIA

PREDATOR MODELS for YACHT

STARLIGHT

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MAIN FEATURES

Self Cleaning Lens

Pan 360° / Tilt ± 45°

Image Intensifier Technology

Direct Brightness Regulation

12" High Def. LED Monitor
15" Optional

Erthalon Cup with Special Zn-Mg anode inside against salt corrosion

ZOOMING

Compact Model: None; Ratio 1:1
Supreme Model: 25X Optical continuous

DAY NIGHT FUNCTION

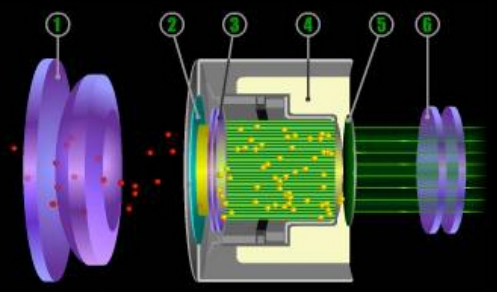
Compact Model: Ultra low light color camera
Supreme Model: None

THERMAL IMAGING DEVICES & IMAGE INTENSIFIER

Thermal Imaging Devices work the very deep IR spectrum. In opposition to classical Night Vision Devices (NVDs) these imagers use the distribution of all radiant heat availible to generate an image of the surrounding environment. In practice a detectable object must have a different temperature as the background, in order to be visible with a thermal scan. Therefore this technology is in the best way suitable for detection of radiating objects (e.g. hot objects, recognition of fire nests, overheating mechanical parts or specific thermal spikes). As generating an image only from temperature differences thermal imaging devices represent a very abstract night vision. Up to now their benefits are rather for detection than for orientation because in case of same temperatured surfaces of a different kind the imager can not display details or only at low-contrast.

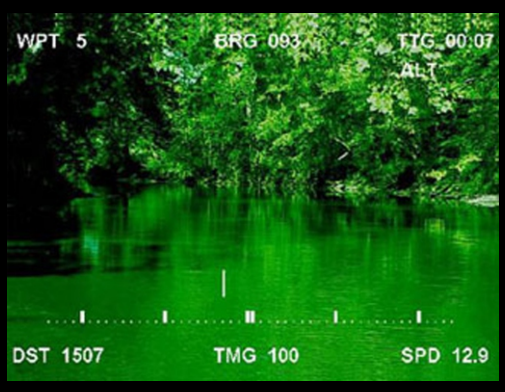
KEYWORD: IMAGE INTENSIFIER

The actual history of opto-electronic Night Vision Devices (NVDs) began with the development of the first image intensifier tube in the 30's of the last century. Since then every step in technology is associated with the notion of light amplification improvement. In World War 2 some few special forces already used first Night Vision Devices which utilized image intensifier tubes (Zero Generation). The human eye can't detect objects in enviroments with very low light level. Similar to the term 'photomultiplier' the operational basics of an image intensifier tube makes attentive to the physical working principle, the 'multiplication' or 'amplification' of the existing 'low light'. The night vision device functions like 'correction eyeglasses', by catching the low light radiation even present in the natural enviroment, amplifying / converting it electronically and delivering it as strong light within the visible spectral range to generate a clear and optimal image of the surrounding dark enviroment.



Intensifier Tube Schematic

IMAGE INTENSIFIER (Starlight NDVs)



Light Intensification

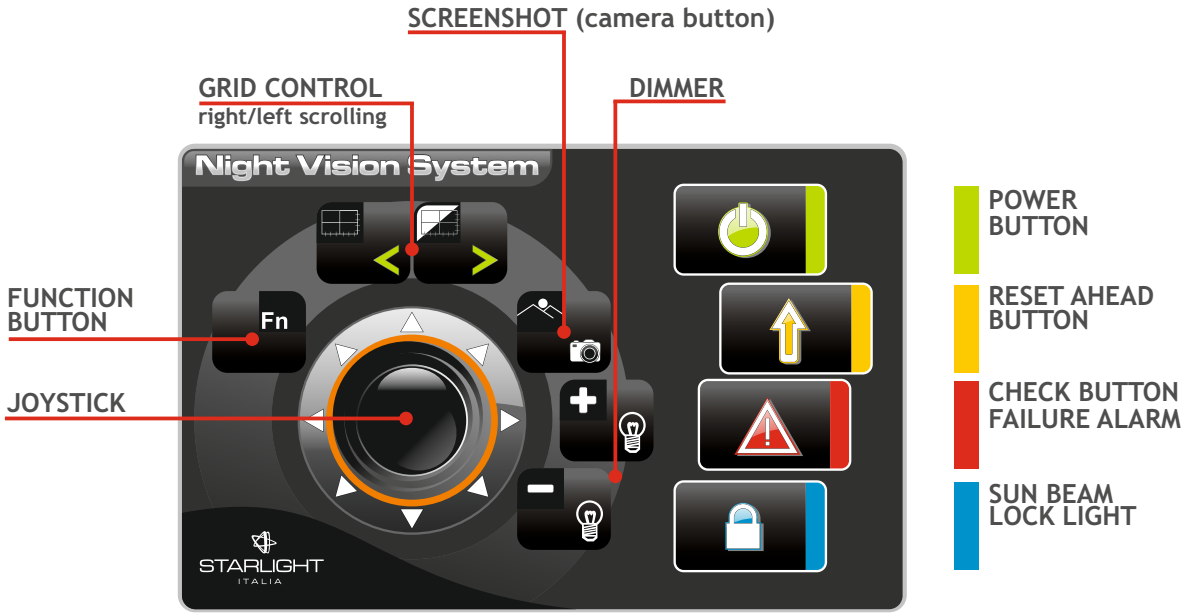
THERMAL IMAGE (infrared technology)

Thermal Imaging

MODELS

TECHNICAL DETAILS

MODEL	COMPACT	SUPREME
VOLTAGE	24VDC	24VDC
POWER	10WATT	12WATT
INTENSIFIER SENSOR	SUPERGENERATION	SUPERGENERATION
FIELD OF VIEW	40° X 40°	40° UP TO 3.5°
CAMERA MOTION	350° PAN +/- 45° TILT	350° PAN +/- 45° TILT
SPEED MOTION	30° /SEC. MINIMUM	30° /SEC. MINIMUM
DIGITAL NOISE REDUCTION	SSNR	SSNR II UPGR. 3D
OSD (ON SCREEN DISPLAY)	YES	YES
SENSOR PIXELS	MIN. 500X500	MIN. 500X500
RESOLUTION	HI-RES 560TV LINES	HI-RES 580TV LINES
STANDARD OUTPUT	PAL-SVGA (OPTIONAL)	PAL-SVGA (OPTIONAL)
HD DAY/NIGHT ULTRACOLOR	YES	NO
ZOOM	NONE - RATIO 1:1	OPTICAL 25X CONT.
OPERATION TEMPERATURE	-35° +70°	-35° +70°
IP GRADE	IP 67 - AISI 316 INOX	IP 67 - AISI 316 INOX
DIMENSION (mm)	330X330X360	350X350X460
WEIGHT (Kg)	9	10
AUTO CLEANING LENS	OPTIONAL	OPTIONAL
OPTIONAL PAINT	YES	YES
TCP/IP NETWORK	OPTIONAL	OPTIONAL



CONTROL and FEATURES

SIMPLICITY and ELEGANCE

PREDATOR SERIES

ARCHITECTURE

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