



Features of SEA-LYNX active gated laser camera system

- * Different operation modes, passive intensified, active laser illumination and active gated mode for absolutely best performance
- * Penetration through bad weather and light textiles like what only gated systems can offer, high dynamic range.
- * Max range 1000 meter with gated operation from 40 meter and up. Negative and positive target viewing
- * Camera unit on pan and tilt unit for marine and demanding applications in bad weather and high contrast viewing
- * The perfect viewer for marine applications and SAR to see in bad weather, surveillance camera for demanding applications in security

Sea-Lynx camera system is a heavy duty active laser camera. The camera use an image intensifier and laser and can operate in gated mode. This admits to see in a specific distance area where the start and stop point of the viewed area can be adjusted on demand. All areas outside the preset area is in darkness. Distance range is up to 1000 -1500 meter and the gated depth can be as short as 15 meter. The gating admits to see through bad weather. Distance increase is 3-5 times any other high class intensified camera as the reflexes of particles in the air in front of the viewed zone is discriminated away. This is highly efficient.

The camera do also handle high dynamic images so areas with bright lamps and dark shadows can be viewed into the darkest corners.

Water appears very dark and all parts in water are very white with a high contrast. This makes the system very useable in marine search and rescue applications and to see debris in water.

Camera can operate in passive mode line any intensified camera or in active continuous mode where the laser is like an IR lamp. There is also a combined mode giving a mix of gated and large area and this is used for large area search.

Many of our products are protected by patents and patent applications

Datablad nr Sea-LYNX 04 0525E



Sea-Lynx gated camera Active laser camera system

Technical Specifications of Sea-Lynx gated camera system

Operating modes	Passive where the system operates as an image intensified camera with PAL output signal
illumination lamp	Active where it operates as an image intensified camera supported by a laser
	Gated where we can set distance where to start to see and where to stop to see.
	Combined where the camera is scanned all over the distance depth in gated mode and all is viewed in one image
Computer interface	RS 232 where all settings can be controlled from a PC system. PAL signal is separated.
Image intensifier	Gen. 2 intensifier with 25 mm cathode
Image amplification	35 000 times
Resolution of intensifier	44 lines per mm over 25 mm diameter
Resolution of camera	420 TV lines black and white image
Camera output	PAL standard
Spectral response	From Blue/Green to about 870 nm in near IR
Field of view	7,5 degree / about 15 meter at 100 meter in distance
Laser Wavelength	810 -870 nm in the near IR spectra
Laser power	1200 mW measured at CW average method
Laser peak power	1500 W over 60 nano seconds in pulsed mode measurement
Laser safety class	Class 3B at less 6 meter in distance, Class 1 at longer range
Visibility of laser	Laser is slightly visible for the eyes when viewed direct into the laser sources at up to 300-500 meter in distance.
Gated range	40 meter to 1500 meter
Practical range	40-1000 meter for dark targets 40-1200 meter for white targets 40-1500 meter for reflexes and life vests
Distance resolution	1-2 meter for zone distance and depth
Settings	Distance to illuminated zone Depth of illuminated zone
Ambient temperature	From - 20 + 50 degree C
Encapsulation	IP 65 level , marine design. N2 filled cabinet
Weight	15 kg ex pan and tilt unit
Dimensions	500x500x220 mm
Operating voltage	24 volt DC / 100 W
Life time expectancy	2000 hours for lasers and intensifiers in continuous operation
Warranty	12 months or 2000 hours which comes first

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