

Search System and Optical Communication



PSAR-100 is a system that performs surveillance, optical communication and long distance lighting functions.

Sensors:

UV Light used for Search & Rescue and Oil Spill operations; The UV light has a range up to 1000mt;

White Light used for long distance research and lighting; it has a maximum range up to 3500mt;

LED Light for optical communications made with the Morse code; guarantees excellent visibility both at night and day. The unit has 4 colors: White, Red, Blue and Green. Its maximum range is 6000mt;

Color daylight surveillance **Camera**; it is a camera capable of providing full HD video.

Summary APPLICATIONS:

- Search & Rescue
- Docking
- Off-shore Oil Industry
- Oil Spill Detection
- Vessel Communication



Search and Rescue and Oil Spill Detector





This activity is supported by a long distance lighting system and availability of HD video camera.

Off-Shore Oil Industry



Vessel Communication



The system automatically encodes and decodes the optical communications of the Morse alphabet exchanged with other naval units.



SEARCH LIGHT BODY

Housing Dimension	1116 x 685 x 880 mm (WxDxH)
Clearance	Horizontal Ø 1270 mm, vertical Ø 783 mm
Weight searchlight turret	90 kg
Housing material LED-modules	Seawater resistant aluminium
Housing material searchlight body	Acid proof stainless steel 1.4401 in critical structural parts.
Coating	Powder coat grey
Rubber dampers	4 pcs, 32 x 33 mm, for vibrations and shock
Electrical motors	2 for movements, 5000 hours
Horizontal rotation	Unlimited movement
Vertical movement	Unlimited movement
Protection class	IP66
Speed both axis	Stepless, max 20°/s
Operation temperature	-25°C to +55°C
Relative humidity	100 %
Enclosure protection grade	IP66

LIGHT PAYLOADS

	Signalling light technology	LED
LED	Average life	50 000 h
	Power	50 W each color
	UV light technology	HMI Metal halide lamp, single-ended
	Power	400W
>	Average life	1000h
	Range	1000m
	Light beam angle	Fixed spot beam 4 degrees
	White light technology	HMI Metal halide lamp, single-ended
ш	Average life	1000 h
WHITE	Power	575 W
>	Range	1 Lux at 3500 m
	Light beam angle	Fixed spot beam 3 degrees

CAMERA PAYLOAD

	Туре	Sony FCB-EV7500
	lmage sensor	1/2.8 type Exmor CMOS
	Picture quality	Full HD 1080p (1920x1080)
	Zoom	30x opt., 12x digital
		(360x with optical zoom)
	Lens value	30x opt. zoom; f=4.3mm (wide)
		to 129.0mm (tele); F1.6 to F4.7
	Digital video output	HD-SDI 292M

ELECTRONIC BOX

Measurements	600 x 210 x 625 mm (WxDxH)
Weight	28 kg
Material	Acid proof stainless steel 1.4401
Coating	FED-STD 595 n° 26307
Protection class	IP44
Supply voltage	115VAC 60Hz
Power consumption	2000W (max load)
Operating temperature	-15°C to +55°C

SAFETY SWITCH

Dimensions	240 x 150 x 180 mm (WxDxH)
	Wallmount excluded
Housing material	Acid proof stainless steel 1.4401
Weight	4,5 kg
Protection class	IP66
Operating Temperature	-25°C to +55°C











