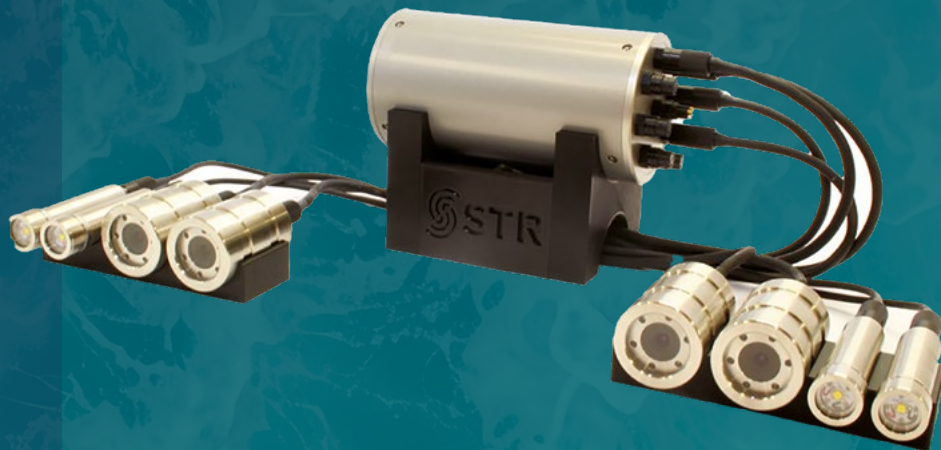# SeaCam

The STR SeaCam system is a modern hi-specification multi-camera inspection system, developed for a wide range of subsea applications and environments.

The highly versatile system can be configured with up to 8 off SeaCam Mini IP cameras and up to 16 off SeaLight LED-1-DC underwater LED lamps and addition to a range of Ethernet based sensors such as imaging sonars.

The system is highly intuitive to operate whilst maintaining flexibility of configuration, all recording parameters can be user configured via the built in touch pad and the user is provided with additional controls via LCD display for control of subsea power circuits and LED intensity control.

For ease of deployment the system is offered within an IP67 pelicase, no external laptop is necessary. To partner the robust peli-based surface unit, all subsea modules have been designed for maximum robustness.

SeaCam

Key features

- Control & adjustment of camera parameters
- Supports up to 8 channels of full HD video recording
- Touchpad for full control over video display and recording
- 20" full HD lid mounted display
- Electronics integrated in ruggedised watertight case
- Over 200 hours recording capacity

SEACAM CONTROL UNIT - SC-CU-1

Functions	Power supply, communication, control & status monitoring of Subsea Multiplexer and connected sensors. Supports up to 8 channels of full HD video recording. Control & adjustment of camera parameters including digital zoom & resolution
Physical Format	Electronics Integrated within Peli iM2600 Ruggedised case, watertight when closed
Dimensions	538 x 406 x 211 mm
Display	20" Full HD Lid Mounted Display
Recording Format	8 Channels H.264 @ 1080 P
Recording Capacity	4 TB (>200 Hrs Typical)
Input / Output	USB Data Transfer, Ethernet interface (LAN & WAN)
User Interface	LCD Display & 4 button control for remote LED, power control & status. IP67 touchpad for full control over video display and recording
Power Input	85-264 V AC @ <700 W
Power Output	150 V DC @ <650 W
Safety Features	Case, cable & subsea load interlocks, low voltage umbilical initialisation, over current & over temperature monitoring
Umbilical Type	STR 13 mm PU Jacketed Kevlar reinforced multicore cable – operation over alternate umbilicals possible

SEACAM SUBSEA MULTIPLEXER -SC-SM1

Functions	Supports up to 8 off IP based sensors (IP camera, Sonar etc) via 8 Sensor inputs comprising • Ethernet & switchable 24 V DC • 1 channel RS232/485 • Thermal protection & Remotely resettable electronic over current protection
Dimensions	140 D x 261 L Without Connectors
Housing	1000 m depth rated Hard Anodised Aluminium
Connectors	MCBH6MAL, 8*MCBH8FAL
Power Output	Switchable 24V DC @ 200W Total Max
LED Control	8 off Analogue Dimming

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SeaCam

STR SEACAM MINI IP VIDEO CAMERA - SC-IPC-500S	
Viewport	Acrylic Viewport
Field of View	1080 p 70° air / 52° water, 720p 85° air / 64°water
Sensor	1 / 2.8'' CMOS
Minimum Illumination	0 / 0.01Lux (LED on / off)
Signal to Noise Ratio	> 50 dB (AGC = OFF)
Focus	Fixed Focus
Image Enhancement	Brightness, Saturation, Sharpness, Contrast
Digital Interface	Real Time Streaming Protocol (RTSP)
RTSP	1080 P 25 / 30 fps, 720p 25 / 30 fps
Digital Latency	100 - 200 mS Typical
Data Bitrate:	Configurable 500 - 8000 kbps
Power Input	10 – 28 VDC (Max 150 mA @ 24 VDC, typical 100 mA)
Fault Protection	Reverse polarity input protection with self reset fuse
Depth Rating	500 m
Housing Material	Stainless steel
Connector	MCBH8M
Dimensions	65 D * 95 L (without connector)
Weight	1.35 kg in air / 1 kg in water

STR SEALIGHT LED-1-DC	
Input Supply Voltage	15 to 32 VDC
Input Supply Power	9 W Typical @ 100% Illumination
Colour Temperature	5000 K
Lumen Output	1200 lm Typical
Beam Angle	120° to 50%
Luminous Efficacy	130 lm / W typical
Depth Rating	3000 m operational
Operating Temperature	-10°C to 45°C
Housing Material	Stainless-steel Housing / Sapphire Lens
Connector	MCBH3M / MCIL3F mating half
Weight	550 g in air / 380 g in water
Dimensions	123 mm L (145 mm Inc. connector) x 35 mm Dia @ head / 30 mm Dia @ body
Dimming Control	0-10 V Analogue (Approx. 10 KOhm load)
Circuit Protection	Reverse polarity protected, Over Voltage, Thermal shut down

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