



STR SeaSpyder Nano Drop Camera System



The SeaSpyder Nano is part of a family of field proven camera systems manufactured by STR for the marine survey and environmental communities. The Ultra Compact SeaSpyder Nano Underwater Drop Camera System offers high resolution digital imaging and photographic quality illumination from within a highly compact form factor. The system comprises of the latest generation STR SeaCam Mini IP camera and two ultra-efficient STR SeaLight LED Lights installed on a lightweight camera deployment frame.

A dedicated Kevlar re-enforced umbilical up to 100m in length is used for frame deployment and communication to the camera system electronics. The system can be mobilised quickly and has been designed for simple operation.

Real time HD video is captured using the supplied STR VidOverlay software. The software driven interface is easy to use and supports typical requirements such as serial and graphical overlay input, field reporting, jpeg still frame capture and adjustment of video recording and display parameters. To ensure safe operation, the subsea electronics operate using a low voltage DC supply from the Surface Integration module. This small waterproof enclosure also provides the data connection to the laptop running STR VidOverlay software.

KEY FEATURES

- Ultra compact design
- Single person operation
- High resolution digital imaging
- Photographic quality illumination
- Easy to use software
- Field reporting capability

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SEASPYDER NANO SURFACE INTEGRATION MODULE - SP-NDC-SIM

Functions: Low Voltage DC Power supply to subsea units,
IP Video communication, LED intensity control
Physical format: Waterproof IP66 aluminium enclosure
Dimensions: 90mm H x 163mm W x 304mm L
Power input: 90-264V AC @ <70W

SEASPYDER NANO FRAME - SP-NDC-FR

Sensors: 1* SeaCam Mini IP Video Camera
2* SeaLight LED-1-DC
Material: Stainless steel
Adjustment: Adjustable tow point position
Adjustable camera & LED angle
Removable legs/skis
Dimensions: 315Hx359W (without skis),
468Hx524W (with skis)
Weight: 9kg in air / 6.6kg in water
Transit case dimensions: Peli 0350 case @
571x571x540mm
Umbilical: 50m length 13.5mm Kevlar
reinforced umbilical C/W Kellums grip
Umbilical weight: 9kg in air / 2kg in water (50m)

STR VIDEOOVERLAY SOFTWARE / TYPICAL LAPTOP

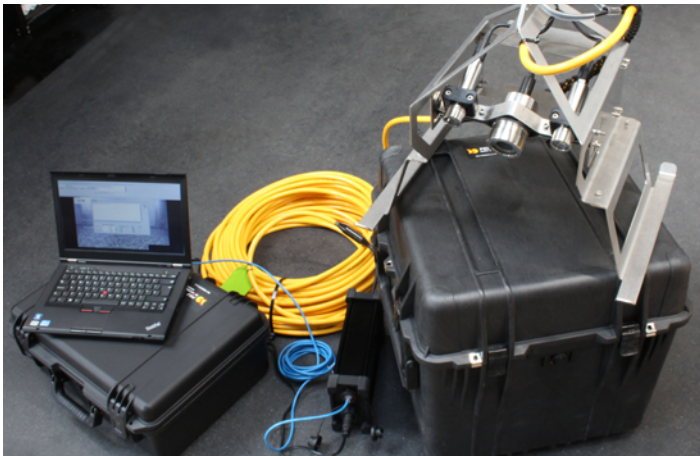
Features: 720/1080P HDIP low latency video recording
with text & graphical overlay,
3*serial data overlay,
still frame capture to .jpg,
report file generation,
adjustable recording & display parameters.
CPU: Intel Core i5
Display: 14.1" TFT @ 1600*900 resolution
CPU: Intel Core i5
HDD: 320GB
Operating System: Windows 7 Pro
Input-Output: USB, DVD, LAN, RS232/485

STR SEACAM MINI IP VIDEO CAMERA - SC-IPC-500S

Viewport: Acrylic Viewport
Field of view: 1080p 70° air/ 52°water
720p 85° air/ 64°water
Sensor: 1/2.5" Aptina 5 Mega Pixel CMOS
Min illumination: 0/0.1Lux (LED on/off)
Signal to noise ratio: >50dB (AGC = OFF)
Focus: Fixed Focus
Image enhancement: Brightness, Saturation,
Sharpness, Contrast
Digital interface: Real Time Streaming Protocol RTSP
RTSP: 1080P 25/30 fps, 720p 25/30 fps
(up to 2592x1920 10 fps
to 1024x768 30fps available)
Digital latency: 100-200mS typical
Data bitrate: Configurable 500-8000 kbps
Power input: 10 - 28VDC
(Max 150mA @ 24VDC, typical 100mA)
Fault protection: Reverse polarity input
protection with self reset fuse
Depth rating: 500m
Housing material: Stainless steel
Connector: MCBH8M
Dimensions: 65D*95L (without connector)
Weight: 1.35kg in air / 1kg in water

STR SEALIGHT LED-1-DC

Input supply voltage: 15 to 32VDC
Input supply power: 9W typical @ 100% illumination
Colour temperature: 5000K
Lumen output: 1200lm typical
Beam angle: 120° to 50%
Luminous efficacy: 130lm/W typical
Depth rating: 3000m operational
Operating temperature: -10°C to 45°C
Housing material: Stainless-steel housing / Sapphire lens
Connector: MCBH3M / MCIL3F mating half
Weight: 550g in air / 380g in water
Dimensions: 123mm L (145mm inc. connector)
x 35mm Dia @ head / 30mm Dia @ body
Dimming control: 0-10V Analogue
(Approx. 10KOhm load)
Circuit protection: Reverse polarity protected,
Over voltage,
Thermal shut down



All information contained in this brochure may be subject to change without prior notice.