“Our mission is to offer all of our customers a competitive edge by delivering integrated, forward thinking technology and innovative engineering solutions, complete with flexible and dedicated support from project planning to project completion.”
Subsea Technology & Rentals (STR) was established in Scotland and is a specialist technology company providing rental and sales services globally to the offshore marine sectors. For over 20 years, STR has delivered mission critical solutions to support offshore survey, ROV, IRM, positioning, environmental and subsea construction sectors.

As an innovative company STR understands the importance of developing new technology and delivering class leading services to give our customers the very best solutions. Continual investment in the latest marine technology has seen our spectrum of rental equipment broaden to satisfy all marine and subsea activities.
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STR has developed a field proven range of underwater camera systems for near shore and deep-water environmental monitoring. The SeaSpyder Underwater Drop Camera System is part of a family of field proven camera systems designed and manufactured by STR to support marine survey and environmental survey companies.

In this range...

**STR SeaSpyder Nano Drop Camera System**

**7**

**STR SeaSpyder Telemetry Drop Camera System**

**8**

**STR SeaSpyder HD Drop Camera System**

**9**
STR SEASPYDER NANO DROP CAMERA SYSTEM

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
The SeaSpyder Telemetry system is designed for operation in water depths up to 1500m utilising standard coaxial sonar umbilicals. The system as standard offers simultaneous uninterrupted recording of low latency live video footage and high resolution stills photography, with interfacing to a wide range of sensors and dataloggers.

The stills camera is fitted with a high quality 24 mega pixel digital SLR camera offering full control of all photographic parameters including manual focus, shutter speed and aperture.

All data is transferred directly to the surface unit for live interpretation, this includes video, stills photos, serial sensor data and Ethernet data such as an imaging sonar.

**KEY FEATURES**

- Operation in water depths up to 1500m
- Simultaneous uninterrupted video recording
- Interfacing to wide range of sensors and dataloggers
- High resolution stills photography
- Direct data transfer for live interpretation
- Fully remote controllable stills camera settings
- Utilises SeaSpectrum Mini IP Video Camera
STR SEASPYDER HD DROP CAMERA SYSTEM

The SeaSpyder HD is designed for operation in water depths up to 3000m utilising coaxial or fibre-optic umbilicals.

The system as standard offers simultaneous uninterrupted recording of low latency live video footage and high resolution stills photography, and interfacing to a wide range of sensors and dataloggers.

The stills camera is fitted with a high quality 18 mega pixel digital SLR camera offering full control of all photographic parameters including manual focus, shutter speed and aperture. The stills camera is housed within a robust 3000m rated aluminium enclosure along with a water corrected lens and also forms the mounting point for HD video camera and quad scaling lasers.

Video footage is provided by the STR SeaSpectrum HD camera offering high quality 1080P video feed via HD-SDI over dedicated high speed fibre optic link.

KEY FEATURES

• Operation in water depths up to 3000m
• Simultaneous uninterrupted recording
• Interfacing to wide range of sensors and dataloggers
• High resolution stills photography
• Direct data transfer for live interpretation
• Fully remote controllable stills camera settings
The STR SeaSpectrum range of underwater cameras deliver high performance image definition through a variety of formats including HD-SDI, HD-IP and composite video. All cameras in the SeaSpectrum range are designed with compact and lightweight aluminium housings rated to 3000m water depth and can be selected with a choice of lens options for optimum use.

In this range...

- STR SeaSpectrum CZ
- STR SeaSpectrum HD-SDI
- STR SeaSpectrum IPW
- STR SeaSpectrum IPZ
- STR SeaSpectrum Low Light
- STR SeaSpectrum IP
- STR SeaSpectrum Mini IP
- STR SeaSpectrum Mini Tooling Camera Range
- STR SeaCam
- STR SeaSpyder Underwater Digital Stills Camera
STR SEASPECTRUM CZ

SeaSpectrum cz colour zoom camera is fitted with a fused quartz dome lens for superior wide angle video capture.

Full camera configuration is possible with remote RS232 & RS485 control which includes manual zoom and focus. Tri-state and bi-polar control options are also possible.

KEY FEATURES
• Wide angle colour zoom camera
• Composite video 576i 25/30fps
• 3000m depth rating
• Optically corrected quartz dome lens
STR SEASPECTRUM HD-SDI

SeaSpectrum HD-SDI is a high-definition camera using a fused quartz dome lens for superior wide angle video capture.

Full camera configuration is possible with remote RS232 & RS485 control which includes manual zoom and focus. Tri-state and bi-polar control options are also possible.

KEY FEATURES

- High Definition Serial Digital Interface (HD-SDI)
- 720p/1080p
- 3000m depth rating
- Optically corrected quartz dome lens
- Wide angle HD colour camera
The STR SeaSpectrum range of underwater cameras deliver high performance image definition through a variety of formats including HD-SDI, HD-IP and Composite Video.

The SeaSpectrum IPW builds upon the functionality and proven track record of the SeaSpectrum IP range of cameras to deliver a highly compact and lightweight 6000m depth rated titanium housed unit, with a fixed focus very-wide angle lens.

The SeaSpectrum IPW offers class leading robustness via its highly durable titanium housing and protected optically corrected dome viewport along with electrically isolated and protected power and data connections.

The unit benefits from our latest generation High Definition Internet Protocol data transmission along with very low power consumption allowing easy integration into most ROV and data transportation multiplexers.

Its internal CPU has been optimised to provide video encoding and IP transmission with remote user control of a wide range of optical parameters, resolution, frame rate and compression.

Settings can be adjusted to optimise the camera for low bandwidth or low latency applications as well as high performance and high resolution applications.

**KEY FEATURES**

- Compact Titanium Alloy Housing
- High Definition Internet Protocol Interface
- 1080p30 Resolution
- Very Low Latency Operation
- 6000m Depth Rating
- Underwater Corrected Lens
- Very Wide Angle Field of View
STR SEASPECTRUM IPZ

The STR SeaSpectrum range of underwater cameras deliver high performance image definition through a variety of formats including HD-SDI, HD-IP and Composite Video.

The SeaSpectrum IPZ builds upon the functionality and proven track record of the SeaSpectrum IP range of cameras to deliver a highly compact and lightweight 6000m depth rated titanium housed unit, with remotely controllable zoom and focus.

The SeaSpectrum IPZ offers class leading robustness via its highly durable Titanium housing and protected optically corrected dome viewport along with electrically isolated and protected power and data connections.

The unit benefits from our latest generation High Definition Internet Protocol data transmission along with very low power consumption allowing easy integration into most ROV and data transportation multiplexers.

Its internal CPU has been optimised to provide video encoding and IP transmission with remote user control of a wide range of optical parameters, resolution, frame rate and compression.

Settings can be adjusted to optimise the camera for low bandwidth or low latency applications as well as high performance and high resolution applications.

**KEY FEATURES**

- Compact Titanium Alloy Housing
- High Definition Internet Protocol Interface
- 1080p30 Resolution
- Very Low Latency Operation
- 6000m Depth Rating
- Underwater Corrected Lens
- Remote Zoom & Focus
- Wide Angle Field of View
The SeaSpectrum Low Light camera has been designed to provide maximum performance in conditions where light level is very limited and is especially suited for ROV operation. Unlike many underwater low light cameras, the SeaSpectrum Low Light camera is capable of operation at the higher resolution of 576 lines.

The SeaSpectrum Low Light uses the same power and communications interface as the SeaSpectrum Colour Zoom, ensuring these cameras are interchangeable and easy to integrate. Full camera configuration is possible with remote RS232 & RS485 control which includes manual zoom and focus.

**KEY FEATURES**
- Wide angle low light monochrome camera
- RS232/485 zoom and focus control
- Composite video 576i 25/30fps
- 3000m depth rating
- Optically corrected dome lens
- Easily integrated
STR SEASPECTRUM IP

SeaSpectrum IP is a compact and robust high definition internet protocol camera and is fitted with wide angle viewport for optimum cost vs performance ratio. Its internal CPU provides video encoding and IP transmission with control over optical parameters, resolution frame rate and compression. Settings can be adjusted to configure the camera for low bandwidth or low latency applications.

KEY FEATURES
- High Definition Internet Protocol Interface
- 720p/1080p
- 3000m depth rating
- Low latency
STR SEASPECTRUM MINI IP

The SeaSpectrum Mini IP builds upon the functionality and proven track record of the SeaSpectrum range of cameras to deliver a highly compact and lightweight titanium housed unit, depth rated to 4000m.

The SeaSpectrum Mini IP is as robust as it is compact utilising a tough sapphire viewport and electrically isolated and protected power and data connections.

**KEY FEATURES**
- Compact titanium alloy housing
- High Definition Internet Protocol Interface
- 1080p resolution
- Low latency operation
- 4000m depth rating
STR SEASPECTRUM MINI TOOLING CAMERA RANGE

Available with or without internal LED illumination, the STR SeaSpectrum Mini Tooling camera range provides the ideal solution for small ROV, diver and general inspection operations.

Building on the success of the STR SeaSpectrum range of underwater cameras, the Mini LED Tooling camera has been designed to offer high quality imagery with 700TVL composite video output in zero light conditions, through clever utilisation of internal high efficiency LED illumination. The Mini Tooling camera is also available without internal LED illumination and is partnered with a high quality wider angle lens for enhanced field of view. Our standard unit is constructed from highly durable 3000m depth rated anodised aluminium along with sapphire viewport, resulting in a highly compact and light weight unit.

The camera is supplied with a fixed focus lens requiring no operator adjustments. Light level compensation, dynamic noise reduction and image processing are all performed automatically to ensure maximum performance without the requirement for user intervention.

KEY FEATURES
- Small and light weight
- 700 TVL resolution
- Depth rated to 3000m
- Sapphire lens
- Easily integrated
- Internal LED illumination
The STR SeaCam system is a modern hi-specification multi-camera inspection system, developed for a wide range of subsea applications and environments from drop camera work to down-hole survey.

The highly versatile system can be configured with up to 8 SeaCam Mini IP cameras and up to 16 SeaLight LED-1-DC underwater LED lamps and 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.

**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
This latest development of the popular STR SeaSpyder drop camera system not only offers superior performance to its predecessors but also boasts a significant reduction in size and weight.

These advancements allow easy installation to a wide range of ROV and ROTV systems in order to provide ultra-high quality still frame capture.

STR has continued to add features and improve specifications to its line-up of cameras, this latest product has benefited from a complete design review allowing our engineering team to miniaturise all existing features and yet increase performance such as improved resolution and optical performance.

**KEY FEATURES**

- Reduced size and weight
- Overall length 345mm (including connectors)
- Ultra-high quality still frame capture
- 24 Megapixel resolution
- Sensitivity up to ISO25600
- Ability to store >10000 images
Using experience gained through many years development of high quality subsea video and stills cameras, STR has developed a range of high performance LED lights. All designs benefit from the very latest LED technologies and boast cutting edge efficiency, reliability and quality, ensuring the highest quality imagery for every scenario.

In this range...

STR SeaLight 1  22
STR SeaLight 2  23
STR SeaLight 5  24
STR SeaLight 10  25
SeaLight PSU  26
Mounting Brackets  27
LED Comparison Table  28
The STR SeaLight LED-1-DC is a highly compact underwater LED, designed to complement a wide range of camera and video inspection systems including the STR SeaSpyder, SeaCam and SeaSpectrum product ranges.

This unit benefits from very high efficiency levels, resulting in 1200lm of illumination for only 9W of electrical power. To achieve this level of illumination previous generations of LEDs may require 20W or even 60-100W for halogen based lamps. This reduced power consumption aids thermal performance resulting in improved product lifespan.

In addition to its high efficiency, the SeaLight LED has been designed to offer a high quality of illumination, providing a wide beam of 5000K daylight colour temperature light.

**KEY FEATURES**
- 15-32V DC @ 9W
- 1200 Lumens
- 120° Wide Beam Angle
- 3000m Depth Rating
- Compact & Durable
- High Efficiency & Long Life
- 0-10V DC Intensity Control
The STR SeaLight LED-2-DC is a highly compact underwater LED, designed to complement a wide range of camera and video inspection systems including the STR SeaSpyder, SeaCam and SeaSpectrum product ranges.

This unit benefits from very high efficiency levels, resulting in 2000lm of illumination for only 12W of electrical power. To achieve this level of illumination previous generations of LEDs may require 27W or even 80-130W for halogen based lamps. This reduced power consumption aids thermal performance resulting in improved product lifespan. In addition to its high efficiency, the SeaLight LED has been designed to offer a high quality of illumination, providing a wide beam of 5000K daylight colour temperature light.

**KEY FEATURES**

- 15-32V DC @ 12W
- 2000 Lumens
- 120° Wide Beam Angle
- 4000m Depth Rating
- Light weight, Compact & Durable
- High Efficiency & Long Life
- 0-10V DC Intensity Control
STR SEALIGHT 5

The STR SeaLight LED-5-DC is a compact high specification underwater LED, designed to complement a wide range of camera and video inspection systems including the STR SeaSpyder, SeaCam and SeaSpectrum product ranges.

This unit benefits from very high efficiency levels, resulting in 5000lm of illumination for only 44W of electrical power. To achieve this level of illumination previous generations of LEDs may require greater than 80W or even 250-400W for halogen based lamps. This reduced power consumption aids thermal performance resulting in improved product lifespan and ease of integration to ROV power systems.

In addition to its high efficiency, the SeaLight LED-5-DC has been designed to offer a high quality of illumination, providing a wide beam of 5000K daylight colour temperature light.

KEY FEATURES
• 19-65V DC @ 44W
• 5000 Lumens
• 120° Wide Beam Angle
• 3000m Depth Rating
• Compact & Durable
• High Efficiency & Long Life
• Full Control Via RS485, RS232, 0-10V DC
STR SEALIGHT 10

The STR SeaLight LED-10-DC is a high specification wide angle underwater LED, designed to complement a wide range of ROV mounted camera and video inspection systems.

This unit benefits from very high efficiency levels, resulting in 10000lm of illumination for only 90W of electrical power. To achieve this level of illumination previous generations of LEDs may require greater than 160W or even 500-800W for halogen based lamps. This reduced power consumption aids thermal performance resulting in improved product lifespan and ease of integration to ROV power systems.

In addition to its high efficiency, the SeaLight LED-10-DC has been designed to offer a high quality of illumination, providing a wide beam of 5000K daylight colour temperature light.

KEY FEATURES
- 19-65V DC @ 90W
- 10000 lumens
- 120° Wide Beam Angle
- 3000m Depth Rating
- Compact & Durable
- High Efficiency & Long Life
- Full Control Via RS485, RS232, 0-10V DC
SEALIGHT PSU

The SeaLight PSU is a highly compact subsea AC-DC power supply, it has been developed to meet the needs of the STR SeaLight 5 & 10, but is also suitable for many other applications requiring 48V DC.

The 200W rating allows up to four SeaLight 5 or two SeaLight 10 units to be powered. The power supply is contained within a light weight durable anodised aluminium housing, depth rated for 3000m. The power supply is capable of operating from 80-264V AC and offers an isolated 48V DC regulated output with overcurrent protection and thermal management. The unit provides additional high voltage protection and self-resetting fuses for all communications lines to the LEDs.
MOUNTING BRACKETS

SEALIGHT 5 MOUNTING BRACKETS

SEALIGHT 10 MOUNTING BRACKETS
# LED COMPARISON TABLE

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumen Output</th>
<th>Power</th>
<th>Voltage</th>
<th>SeaLight PSU Compatible (AC Input)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SeaLight LED-1-DC</td>
<td>1200</td>
<td>9W</td>
<td>15 - 32 V DC</td>
<td></td>
</tr>
<tr>
<td>SeaLight LED-2-DC</td>
<td>2000</td>
<td>12W</td>
<td>15 - 32 V DC</td>
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<tr>
<td>SeaLight LED-5-DC</td>
<td>5000</td>
<td>44W</td>
<td>19 - 65 V DC</td>
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</tr>
<tr>
<td>SeaLight LED-10-DC</td>
<td>10000</td>
<td>90W</td>
<td>19 - 65 V DC</td>
<td>✓</td>
</tr>
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</table>

<table>
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<tr>
<th>Model</th>
<th>Depth Rating</th>
<th>Housing</th>
<th>0-10V Control</th>
<th>RS232 &amp; RS485 Control</th>
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</thead>
<tbody>
<tr>
<td>SeaLight LED-1-DC</td>
<td>3000m</td>
<td>Aluminium</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>SeaLight LED-2-DC</td>
<td>4000m</td>
<td>Titanium</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>SeaLight LED-5-DC</td>
<td>3000m</td>
<td>Aluminium</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SeaLight LED-10-DC</td>
<td>3000m</td>
<td>Aluminium</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
The STR range of subsea laser pointers and line generators are designed to meet all underwater measurement and identification tasks. Typical use may include an array of dots centred on stills or video camera to provide measurement reference and perspective or vertical line generation to provide contour profiling.

The product range is available in a choice of laser colours, green and red are standard, with power levels ranging from 1mW to 60mW, however other wavelengths and power levels are available on request. All STR developed lasers are designed and manufactured for robustness and include thermal management to ensure maximum lifespan with consistent power output over many years operation, in addition to reverse polarity input protection and wide range DC supply input.
STR SEADOT

The STR SeaDot laser provides a 520nm Green High Power Class 3R (<5mW) or 650nm Red Class II (<1mW) output.

The green unit allows for improved transmission through seawater for stills/video photography, whilst the red unit provides optimum contrast when used in shallow water operations where sunlight results in green video imagery. The SeaDot is frequently used for photographic scaling, when arranged as an array of two or four pointers.

KEY FEATURES

- 6000m depth rating
- 8-30V DC input 1-2W (Red/Green)
- Class 3R safety specification (Green)
- Class II safety specification (Red)
- High accuracy
STR SEALINE

The STR SeaLine laser provides a 520nm Green High Power Class 3B (<35mW) line output, for improved transmission through seawater for stills/video photography.

Standard beam width is 60°, with 90° line and 60mW options available. The SeaLine is often used for seabed profiling when mounted vertically and viewed from a 45° angle from a video camera. Other typical uses include photographic scaling.

KEY FEATURES

- 6000m depth rating
- 60° / 90° line output
- 8-30V DC input @ 4W
- Class 3B safety specification
- High accuracy
STR SEACROSS

The STR SeaCross provides a 520nm Green High Power Class 3B (<35mW) X-line output, for improved transmission through seawater for stills/video photography.

Standard beam width is 30° and is often used as a pair or quad in order to create a square or rectangular shape on the seabed.

KEY FEATURES

- 6000m depth rating
- 30° X-line output
- 8-30V DC input @ 4W
- Class 3B safety specification
- High accuracy
The STR SeaDV Inspection Recorder is an all in one digital video inspection system designed to meet the needs of all offshore inspection and monitoring tasks.

In this range...

STR SeaDV Inspection Recorder 34
STR SEADV INSPECTION RECORDER

The SeaDV Inspection Recorder is a 1-4 channel rack mountable DV inspection recorder built on industrial hardware for maximum robustness.

The SeaDV is coupled with Options AS Videologger digital video inspection software and VIGRA video overlay software specifically designed for all visual inspection tasks. VIGRA and Videologger software suites have been extensively field proven, with more than 850 combined licenses issued to ROV operators and survey companies worldwide.

KEY FEATURES
- 1-4 Channel Digital Video Recording
- Live view
- Built in video overlay
- Video overlay output (optional)
- Removable HDD data storage
- Text & graphics overlay
- Data management & report generation
- Audio comment logging

HIGH DEFINITION
- 1-4 Channel HD-SDI & SD (composite) Video Input
- 1-4 Channel HD-SDI & SD (composite) Video & Overlay Output

STANDARD DEFINITION (WITH INTERNAL OVERLAY)
- 1-4 Channel SD (composite) Video Input

STANDARD DEFINITION (WITH EXTERNAL OVERLAY)
- 1-4 Channel SD (composite) Video Input
- 1-4 Channel SD (composite) Video & Overlay Output
Unexploded ordnance (UXO) risk management is proving to be an ever increasing requirement for pre-installation surveys of offshore wind farms and pipe laying operations. STR has successfully developed a turnkey solution for marine UXO detection that offers considerably improved survey efficiency and cost effectiveness.

In this range...

STR Magnetometer Extender System 36

STR MultiPort DTS 37

STR MiniPort DTS 38
STR MAGNETOMETER EXTENDER SYSTEM

The Magnetometer Extender System is a proprietary 5 channel serial extender platform with subsea power conditioning to effectively integrate an array of up to 5 marine magnetometers towed independently behind a vessel. A topside control interface gives the user individual or combined control of the magnetometer towfish altitude above the seafloor and each telemetry link provides a robust output to magnetometer data acquisition and processing software packages.

KEY FEATURES
• Up to 5 channel operation
• Up to 330m cable length
• Cable fault monitoring
• Very low latency RS-232 link
• No user configuration necessary
STR MULTIPORT DTS

The Multiport Digital Data Transport System is a fully configurable subsea multiplexer, delivering a high speed digital link and sensor power over a copper coaxial cable up to 6000m in length.

The Digital DTS provides transparent telemetry control to a wide choice of interfaces, including multi-channel RS232/RS485 ports, Ethernet and video channels for multiple data capture.

KEY FEATURES
- Configurable subsea multiplexer
- Operation on coaxial cables up to 6000m in length
- High speed data transfer with sensor power
- Multiple RS232/RS485 ports
- 2 x Ethernet interfaces
- Composite video capture, transport and real-time display
- Remote sensor switching
- 3000m depth rating
The STR MiniPort DTS has been engineered to provide a robust and efficient power and communications network over long lengths of subsea cabling, such as armoured coaxial tow cables used for sidescan sonars and ROV umbilicals.

The MiniPort DTS is ideal for extending the range and depth capabilities of equipment and sensors which ordinarily use RS232 communication and 24V DC.

The system is capable of delivering up to 300W @ 24VDC along with 4 independent RS232 channels and TTL trigger for USBL positioning systems. All communication is performed using advanced techniques to provide extremely low latency and maximum robustness. An extensive range of safety features have also been included in the design in order to reduce the risk of high voltage exposure which can be present on other subsea telemetry systems. The MiniPort DTS Subsea Unit has been specifically designed for maximum power efficiency and compact format to meet the demanding size and power restraints of many applications.

**KEY FEATURES**
- 4 x low latency RS232 ports
- 4 x 24V DC outputs
- Ultra low latency TTL trigger port
- Cable fault monitoring
- 2000m depth rating
- 3000m coax operation
- Easy to install & operate
- Compact aluminium subsea housing
The STR Digital Sub Bottom Transmitter and Transceiver range incorporate some unique design advancements to enhance transmit power levels, resolution and receiver performance to classic CW pinger systems.

In this range...

STR Digital Sub-Bottom Transmitter 40

STR Digital Sub-Bottom Transceiver 41
STR DIGITAL SUB-BOTTOM TRANSMITTER

The Digital Sub-Bottom Transmitter offers advanced software driven features to deliver a high performance pinger transmitter.

A high power output with Single Cycle Mode Power Boost delivers deeper penetration and higher resolution than traditional transmitters. The digital display user interface gives full control of output power, frequency and transmit cycles for nearshore and full ocean depth operations.

A fully adjustable 60kW output is delivered by a solid state drive, designed to eliminate the ringing associated with traditional transmitter designs. The output frequency is adjustable from 1kHz to 18kHz to accommodate a range of low and high frequency sub-bottom transducers. The transmit pulse length is adjustable from 1 to 10 cycles to provide higher penetration or resolution.

A built in heave input module offers heave compensated data, and the signal output is compatible with industry standard acquisition systems.

KEY FEATURES
• Powerful 60kW output
• Single cycle mode power boost
• Adjustable frequency output
• Automatic impedance matching
• Heave compensation input

APPLICATIONS
• Towed
• Over-the-side mount
• Bespoke hull mount installation
STR DIGITAL SUB-BOTTOM TRANSCEIVER

The Digital Sub-Bottom Transceiver combines the highly successful Digital Sub-Bottom Transmitter with a fully featured transceiver to deliver a fully integrated pinger transceiver system.

KEY FEATURES
- Fully featured Transceiver
- Powerful 60kW output
- Single cycle mode power boost
- Adjustable frequency output
- Automatic impedance matching
- Heave compensation input
- Optional Sub-Bottom Monitor acquisition software

APPLICATIONS
- Towed
- Over-the-side mount
- Bespoke hull mount installation
OCEANOGRAPHIC WINCHES

STR can supply solutions for sidescan sonar and sub-bottom profiling systems for towed and hosted platforms, marine magnetometers and a range of marine survey winches for shallow and deep-water surveys.

In this range...

STR ESW-500 Series
Electric Winch 43

STR ESW-1500 Series
Electric Winch 44

STR ESW-4000 Series
Electric Winch 45

STR SeaTow-6000 Series
Electric Winch 46

STR Powered Cable Reel 47
STR ESW-500 SERIES ELECTRIC WINCH

The ESW-500 is a compact electric winch designed for the installation of 500m of 1/4” cable. This model will also accommodate a wide range of electro-mechanical and umbilical cables.

Typical applications for this winch are sidescan sonar, combined sidescan sonar and sub-bottom profiler systems, marine magnetometers, gradiometers and oceanographic sensors.

KEY FEATURES

• Compact footprint
• Prepared for a range of electrical sliprings
• Remote and local pendant control
• Variable speed drive
• Precise direct drive diamond bar level wind
• Low maintenance
STR ESW-1500 SERIES ELECTRIC WINCH

The ESW-1500 is a compact electric winch designed for the installation of 1000m of 11.4mm armoured coaxial cable. This model will also accommodate a wide range of electro-mechanical and umbilical cables.

Typical applications for this winch are sidescan sonar, combined sidescan sonar and sub-bottom profiler systems, marine magnetometers, gradiometers, drop camera systems, oceanographic sensors and ROV systems.

KEY FEATURES

• Fully certified design
• Prepared for a range of electrical sliprings
• Remote and local pendant control
• Variable speed drive option
• Precise direct drive diamond bar level wind
• Low maintenance
The ESW-4000 is a high capacity electric winch intended for deep water operations. The winch is designed for installation of 4000m of 11.4mm armoured coaxial cable and will also accommodate a wide range of electro-mechanical and umbilical cables.

Typical applications for this model are sidescan sonar, combined sidescan sonar and sub-bottom profiler systems, marine magnetometers, gradiometers, drop camera systems, oceanographic sensors and ROV systems.

**KEY FEATURES**

- Fully certified design
- Prepared for a range of electrical sliprings
- Remote and local pendant control
- Variable speed drive option
- Precise direct drive diamond bar level wind
- Low maintenance
STR SEATOW-6000 SERIES ELECTRIC WINCH

The STR SeaTow-6000 is the latest addition to the range of Electric Series Winches that are used extensively for hydrographic, geophysical and oceanographic survey globally.
This winch is designed for deep water applications that require the use of 6000m of 11.4mm armoured coaxial cable and will also accommodate a wide range of electro-optic and umbilical cables.

KEY FEATURES
• Supports Coax / Wireline / Fibre Cables
• High Performance
• High Efficiency
• Improved Safety Systems
• Configurable Level Wind
• Regeneration Management
STR POWERED CABLE REEL

The powered cable reel is a compact winch specifically designed to provide an economical deployment solution for towed systems and oceanographic sensors on small vessels.

KEY FEATURES

- Stainless steel construction
- Robust and lightweight design
- High duty 24VDC motor
- Maintenance free slip ring
- 300m cable capacity
- Single speed and variable speed option
The STR SeaCount Systems are high quality sheave blocks complete with T-Count cable counter transmitter, which measures the length of cable passing over the sheave wheel transmitting the value by radio. The block is designed for use with the STR SeaCount wireless electronic counter system which can monitor up to four counters. The aluminium alloy construction provides optimum strength to weight characteristics.

In this range...

STR SeaCount 14” System
5 Tonne SWL 48

STR SeaCount 20” System
5 Tonne SWL 50
STR SEACOUNT 14” SYSTEM 5 TONNE SWL

The STR SeaCount system consists of a rugged and reliable sheave block with an integrated cable counter transmitter working in conjunction with a programmable T-Count Desktop display.

The system allows the user to remotely monitor the length of a cable, rope or umbilical as it passes over the sheave block. The STR SeaCount system is an ideal solution for the layback measurement of towed subsea sensors. The cable counter transmitter can be supplied set to 1 of 4 channels allowing the wireless counter to monitor up to 4 systems at once.

For optimum strength to weight characteristics the sheave block is constructed from aluminium alloy. The sheave block has been designed with long-life bearings in order to provide trouble free operation under adverse operating conditions.

APPLICATIONS:
• Layback measurement
• Sidescan sonar
• Towed sub-bottom profiler
• Environmental instrumentation
• Depth measurement

KEY FEATURES:
• Highly Reliable
• 200m Wireless Range
• 4 Channels Available (Factory Set)
• Serial output to navigation software
• License free RF link (418MHz MPT1340MT / 433MHz ISM EN300 220-3)
• 14” diameter sheave wheel
• 5000kg SWL
• 5-18mm cable diameter
• Weight 21kg
STR SEACOUNT 20” SYSTEM 5 TONNE SWL

The STR SeaCount system consists of a rugged and reliable sheave block with an integrated cable counter transmitter working in conjunction with a programmable T-Count Desktop display.

The system allows the user to remotely monitor the length of a cable, rope or umbilical as it passes over the sheave block. The STR SeaCount system is an ideal solution for the layback measurement of towed subsea sensors. The cable counter transmitter can be supplied set to 1 of 4 channels allowing the wireless counter to monitor up to 4 systems at once.

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APPLICATIONS:
- Layback measurement
- Sidescan sonar
- Towed sub-bottom profiler
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KEY FEATURES:
- Highly Reliable
- 200m Wireless Range
- 4 Channels Available (Factory Set)
- Serial output to navigation software
- License free RF link (418MHz MPT1340MT / 433MHz ISM EN300 220-3)
- 20” diameter sheave wheel
- 5000kg SWL
- 5-18mm cable diameter
- Weight 32kg
Flooded Member Detection (FMD) has long been the method of choice for the inspection and monitoring of subsea structural members for the detection of water ingress. FMD inspection technique can also be applied to locating blockages in pipelines as a result of pigging or silt build up.

In this range...

- STR SeaGamma 52
- STR FMD Rotator Skid 53
- STR SeaSonic FMD 54
- STR SeaSonic Driver System 55
STR SEAGAMMA

The STR SeaGamma FMD system has been designed as a modern inspection tool to reliably determine if a subsea structure with normally sealed watertight members has sustained water ingress as a result of corrosion, weld failure or damage.

The system is based on the use of low level collimated Gamma radiation enabling reliable operation without the need to clean away marine growth build-up from the members prior to survey, meaning the results are fast and reliable.

Two system types are available:

SeaGamma Standard System - designed to work from small inspection and light work class ROVs, capable of covering member sizes up to 2 metres in diameter.

SeaGamma Ultra System - designed for deployment from Work Class ROVs, capable of covering member sizes up to 3 metres in diameter.

KEY FEATURES

- Mechanically robust detector and source arms
- Adjustable frame with rotator option
- Advanced acquisition and reporting software
- Continuous sampling and fast results
- Marine growth removal unnecessary
- Custom designed Tungsten collimator for improved safety
- High sensitivity detector capable of greater than 1 million counts per second
STR FMD ROTATOR SKID

The STR FMD Rotator Skid utilises a precision actuator to rotate the FMD survey frame obviating the requirement for the host vehicle to return to the surface to change orientation of the frame.

The STR FMD Rotator Skid has been designed for installation on inspection ROVs and totally complements the regular STR survey kit.

KEY FEATURES

- Weight in air (including rotator & PSU) = 24.8kg
- Weight in water = 0kg (foam compensated)
- Power requirements: 48V DC @ 833mA (limited by current regulator unit provided)
- Control: reversible direction via polarity change
- Connector: IL2M
The STR SeaSonic Acoustic Flooded Member Detection System is a bespoke development providing the optimal accuracy and reliability attainable for acoustic flooded member detection. The system draws from experiences gained with the field proven STR SeaGamma FMD system. Unlike the STR SeaGamma system the STR SeaSonic system does not require the use of ionising radiation, this aids handling and transportation.

The system is typically ROV manipulator mounted, utilising the STR designed mounting and alignment tools. This arrangement may also be supplemented with video camera recording and laser guided alignment.

Diver deployment is also supported as the active transducer head is highly compact and manoeuvrable.

The STR SeaSonic is particularly well suited for use on very large member sizes not supported by gamma radiation systems. It is equally well suited to inaccessible or very small members where gamma based systems have restricted access.

Much like the STR SeaGamma, the STR SeaSonic system is provided with highly comprehensive software allowing job planning, data acquisition, display, recording and report generation. The reports generated can be easily compiled along with SeaGamma reports should both systems be used during the inspection campaign.

KEY FEATURES

- No ionising radiation source required
- Flooded member diameters 0.1-10m
- Wall thicknesses 1mm upwards
- Separate compact transducer head
- Robust & versatile transducer mounting & protection
- Intuitive easy to use Graphical User Interface
- RS232 & RS485 Communication Interface
- Low Power DC Input (<4W @ 18-56V)
- High resolution acoustic TX/RX
- 3000m Depth Rating
The STR SeaSonic Diver's Operated Acoustic Flooded Member Detection System is a bespoke development providing the optimal accuracy and reliability attainable for acoustic flooded member detection. The system draws from experiences gained with the field proven STR SeaGamma FMD system. Unlike the STR SeaGamma system the STR SeaSonic system does not require the use of ionising radiation, this aids safety and transportation. SeaSonic employs a unique ultrasonic transducer design which reduces the requirement for member cleaning compared to some other techniques.

The Diver Operated system is provided in the form of a hand-held unit which is both lightweight and ergonomic. The STR SeaSonic Diver Operated system arrangement is supplied with a diver's one-hundred-and-ninety-centimetre quick release extension lanyard, one-hundred-metre umbilical and twenty metre deck cable.

The STR SeaSonic is particularly well suited for use on very large member sizes not supported by gamma radiation systems. It is equally well suited to inaccessible or very small members where gamma-based systems have restricted access as the hand-held gun requires access to one surface of the member only.

Much like the STR SeaGamma, the STR SeaSonic system is provided with highly comprehensive software allowing job planning, data acquisition, display, recording and report generation. The reports generated can be easily compiled along with SeaGamma reports should both systems be used during the inspection campaign.

**KEY FEATURES**

- Minimised Member Cleaning Requirement
- No ionising radiation source required
- Flooded member diameters 0.15-10m
- Wall thicknesses 1mm upwards
- Fully Integrated Diver Gun
- Low Voltage Power and Comms via Robust Umbilical
- Intuitive easy to use Graphical User Interface
- Low Voltage DC / Mains AC Vessel Supply
STR offers comprehensive pipeline and platform CP inspection survey packages for ROV and diver use, these can be supported by trained inspection personnel. For ROV operations our CP Probe Electronics Interface Bottle provides power and a digital interface between the CP Probe sensor and the ROV communication network for reliable ROV based CP inspection.

In this range...

STR SeaCP 57
STR SEACP SYSTEM

The STR SeaCP Inspection System is a comprehensive solution for Cathodic Protection inspection tasks that need to be performed accurately and quickly.

The STR SeaCP Proximity, Contact & Field Gradient Probe is a dual reference cathodic protection probe primarily for use as an ROV corrosion testing sensor. The second reference electrode in the probe allows for field gradient operation but also facilitates live verification of correct operation. The Probe can also be adapted for Diver use. The system is provided with data logging software and can also be easily integrated into industry digital video recording systems.

The STR SeaCP Inspection System has been designed for maximum robustness and ease of use, incorporating a field spares and calibration kit.

**KEY FEATURES**
- 3000m Depth Rating
- Contact, Proximity & Field Gradient Measurements
- Dual Ag/AgCl Electrodes
- ROV Anti-Shock Mount
- Calibration & verification kit included
- Comprehensive spares
- Drop Cell Reference Included
- Low Power (19-32V DC @ 2W)
STR offers a range of subsea power solutions, which have been engineered to provide reliable, robust and versatile products for challenging environments. Each product aims to provide high performance combined with ease of integration and intuitive functionality.

In this range...

STR SeaCell and STR SeaCharge  59

SeaUPS Subsea Uninterruptible Power Supply  60
INTELLIGENT SUBSEA BATTERY PACK

STR SubSea rechargeable battery pack incorporating: over current protection, internal voltage and temperature monitoring, over discharge protection, automatic pressure relief and anodised aluminium housing options.

KEY FEATURES
- 38Ah, 26.4V NiMH rechargeable subsea battery pack
- Automatic charge and over-discharge management
- Battery over/under temperature monitoring protection
- Output over-current protection
- 1000m & 3000m depth rating options
- Automatic pressure vent

BATTERY PACK
Chemistry: nickel metal hydride output
Voltage: 26.4V nominal
Capacity: 38Ah
Material: hard anodised aluminium
Connector: subconn FCR2012F
Depth rating: 3000m or 1000m
Dimensions: height 465mm
Diameter 180mm weight:
21kg in air (1000m option)
17.9kg in water (1000m option)

CHARGER
Features: intelligent charge and cell conditioning, performance & fault detection reporting
Input voltage: 85-264V AC
Material: anodised aluminium
Dimensions:
Height 90mm
Width 163mm
Length 304mm
SEAUPS SUBSEA UNINTERRUPTIBLE POWER SUPPLY

The STR SeaUPS is a subsea uninterruptible power supply designed to keep inertial navigation systems on ROVs initialised, with up to 30 minutes output hold up time possible in the event of temporary electrical power outages.

The STR SeaUPS offers flexibility in input supply, working with both AC and DC inputs which are fully isolated from the UPS DC output.

The UPS is fitted with an internal NiMH battery. Charge management is automatic and the 3000m rated subsea housing is fitted with an automatic pressure vent for safety.

KEY FEATURES

- AC or DC power input
- 24V DC regulated output
- Up to 30 minutes hold-up time. Repeatable up to 5 times on fully charged batteries and 1 A load before requiring a recharge
- Load start up mode for high surge current loads
- 3000m depth rated
- Intelligent battery management
STR offers a range of equipment for nearshore and deep-water underwater tracking and high accuracy positioning applications.

In this range...

STR Sealevel 62
STR Compass and Depth Sensor 63
STR Subsea Gyro Frame 64
The unit is robust, simple to operate and is highly configurable. When used to measure level, the sensor can be changed from forward facing to upward facing display without further configuration or calibration.

The internal rechargeable battery pack provides up to 35hrs of runtime from a full charge and can achieve a fast charge from 0-60% capacity in 2.5hrs and 0-80% capacity in 12hrs. Additionally via the RS232/485 config port, the unit can be user configured for different display types such as heading as well as level / orientation. Parameters such as brightness, auto light sensor level and timers can also be configured.

**KEY FEATURES**

- Level Accuracy 0.1°
- Level Resolution 0.01°
- Level Range 360°
- Visual Slope Direction Indicator
- Configurable Functions
- High Visibility
- 300m Depth Rating
STR COMPASS AND DEPTH SENSOR

The combined compass and depth sensor is a low cost, fully integrated north seeking compass and pressure sensor, designed for a wide range of subsea applications.

The sensor is depth-rated to 3000m and fitted with a high resolution 300 bar pressure transducer as standard, with other pressure ratings available on request.

The unit achieves full heading accuracy at start-up, and its exceptionally small size allows the sensor to be used in many underwater applications.

KEY FEATURES
- Integrated subsea compass and depth sensor
- Low cost and lightweight design
- 3000m depth rating
- OEM versions available
STR SUBSEA GYRO FRAME

The STR Gyro Frame can be configured to client requirements using either an aluminium or stainless steel frame. All frames are supplied fully certified and come complete with ROV lifting handle, two leg lifting strop and a sacrificial base plate.

Due to the unique twin “V” Plate locking design, high repeatable alignment accuracy is maintained allowing the cage to be removed from a structure and reinstalled with confidence.

KEY FEATURES

- Highly repeatable locking mechanism
- On/Off switch for battery conservation
- ROV friendly switch and locking mechanism
- High capacity battery with built in intelligence
STR has developed a new high visibility underwater display enclosed in a compact 3000m rated subsea housing. Full advantage is taken of the latest high efficiency white LED dot matrix technology to realise a very power efficient high visibility design, ideal for battery powered applications.

In this range...

STR SeaText 66
The display is user configurable to allow for a comprehensive range of input signal formats and display modes. These include RS232 and RS485.

Additional features include display brightness adjustment and the ability to light activate the display.

The display can be used for a wide range of applications, for example to display heading, pitch and roll output from a subsea gyro powered from a battery pack.

**KEY FEATURES**
- High visibility under water
- Highly configurable by user
- Adjustable brightness display
- High efficiency
- Low power requirement
- Very low standby power
- Light activated turn-on
- Compact size
- 3000m rated as standard
STR designs, manufactures and extensively tests a wide range of deployment and mounting solutions for survey sensors.

STR can support:

• Vessel of Opportunity Over-The-Side pole mounts for Multibeam, USBL, Sidescan & Sub-Bottom Profilers
• Magnetometer and gradiometer Transverse Gradiometer (TVG) frame
• Retractable pipe tracker frame
• Bespoke and custom engineered solutions
STR PIPE TRACKER ROV DEPLOYMENT FRAME

The STR Pipe Tracker ROV Deployment Frame is a hydraulically controlled retractable frame assembly designed for the mounting of the coil arrays to the front of an ROV.

KEY FEATURES
- Depth rated to 3000m
- Robust and lightweight design
- Fully adjustable to suit different ROV sizes
- Fully retractable for safe ROV deployment and recovery
- All parts non-magnetic
- Easy disassembly allows small shipping package
STR TRANSVERSE GRADIOMETER FRAME (TVG)

The STR Transverse Gradiometer Frame has been developed in order to provide a robust cost-effective solution utilising two Geometrics G-882 magnetometers.

The frame is constructed from anodised aluminium, utilising non-ferrous fixings to ensure maximum data quality. The frame supports two G-882 magnetometers, along with their internal altimeters, plus the STR MiniPort DTS multiplexer. The design has been optimised to minimise hydrodynamic drag in order to reduce the line pull requirement from the winch and to optimise the cable-out to depth ratio.

KEY FEATURES
- Utilises 2x Geometrics G-882
- Non-ferrous construction
- Low drag coefficient
- MiniPort DTS compatible
CABLE MOULDING & CONNECTORS

STR offers a full range of encapsulation and moulding services for the Oil and Gas, renewable and marine industries. The in-house cable moulding department has over 22 years of experience in cable & connector moulding services.

- Ability to mould onto Neoprene, Polyurethane and Polyethylene cables
- Wide range of tooling for custom and complex cable assemblies
- Sensor and electronics encapsulation & junction box potting
- Multi-way break out assemblies
- Trained personnel to undertake on-site inspection, repair and maintenance worldwide
- Extensive stock of OEM connectors

Fibre Optic Services
- Hi-tech fibre optic test and diagnostic equipment
- Fibre optic fusion splicing
- Oil filled hose assemblies
- Single mode and multimode connector
STR has invested in specialist tooling and machinery, resulting in superior manufacturing processes to provide the following services:

- Bespoke and OEM moulding solutions
- Military applications
- Electrical, fibre optic, video and hybrid solutions
- Topside power cables
- Underwater power & communication cables
- Composite & HD video cables
- Hybrid fibre optic electrical cables
- Mechanical tow-termination solutions
- Dedicated Research & Development service
- Pressure testing facilities

STR OEM equivalent polyurethane moulding processes are proven to deliver the highest quality product without compromise.

Alongside the supply of connectors, cables, terminations and mouldings, STR specialise in fibre optic and oil filled pressure balanced cable solutions - often the preferred choice of ROV operators working in deep waters. STR trained fibre optic technicians can support singlemode and multimode fibre cables and we can provide our clients worksite diagnostics and re-termination services.
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