



ON-LINE ROBOTIC CLEANING AND INSPECTION SERVICES.

Phone: (724) 444-4217
Cell: (412) 576-9910
Toll Free: 1-877-757-1537
Email: rgoeller@msn.com
Internet: scantronrobotics.com

SCANTRON ROBOTICS
2593 Lakewood Road
Pittsburgh, PA 15044

Proposal:

SEAMOR Floating ROV

Prepared For:

Prepared By:



SCANTRON ROBOTICS

Rusty Goeller
VP, General Manager

Date:



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Vehicle

- Size (W X L X H) 14" X 18.6" X 14"
- 355mm X 472mm X 355mm
- Weight in air ~45lb / 20kg
- Construction Aluminium and high impact ABS
- Depth Rating 1,000 ft / 300m
- Speed Up to 3 knots
- Power 750W max load

Thrusters

- Horizontal 2x90w (150w optional)
- Vertical/Lateral 2x90w (150w optional)
- Thrust ~11 lb/5 kg per thruster

Forward Camera & Lights

- Type
- Sensitivity
- Resolution
- Focus
- Iris
- Zoom
- Tilt Range
- Lights

Auxillary Camera

- Type Sony Color 1/4" CCD
- Sensitivity <0.5 lux
- Resolution 380 TV Lines
- Focus Fixed
- Iris Auto
- Lights 12 high intensity LED's, ON/OFF

Tether

- Length: 550ft/165m, 1100ft/335m standard
Custom lengths up to 3,000ft/900m
- Diameter: 0.35"/9mm
- Weight: Neutrally buoyant in fresh water



Sensors

- Pressure/Depth
- Heading and Focus Length
- Leak and temperature alarms and indicator
- Thruster stall alarms and indicator
- 2 year limited warranty, spare thruster, tool kit, manual and general spares kit



Seamor 300F Options

- True HD FWD View Camera with ~2,000,000 effective pixels
- Up to 3 aux. cameras
- Trittech, BlueView or Imagenex sonar integration
- Trittech Micron Eco Sounder
- Manipulator/Gripper
- Custom umbilical lengths up to 3000ft/915m
- Trittech, LinkQuest or Desert Star Positioning
- LYYN video optimization in controller
- CYGNUS thickness gauge
- 1000 lumen aux. LED light modules
- Extended warranty (up to 5yrs.)

The Seamor 300 open frame platform and umbilical with 4 copper, 4 multi-mode fibres and 2 twisted pairs allow this ROV to be customized to suit your application and your specific needs.



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The SEAMOR is a powerful industrial inspection-class mini-ROV designed for the most challenging underwater environments. The SEAMOR ROV's intuitive and precise controls allows the capture of *high quality video inspections* onto DVD or BlueRay formats.

Focus Industries:

- Aquaculture
- Forensics/SAR
- Hydro Inshore
- Marine Security
- Offshore
- Pipeline Inspection
- Potable Water
- Recreational
- Research
- Structural Analysis
- Salvage Operations
- Hull Inspection



Features:

- Leak detectors give operators advanced warning of a problem, possibly preventing expensive repairs.
- Sonar allows operation in water so murky that navigation would be impossible with only cameras.
- 3D positioning and tracking system allows the operator to know the vehicle's position regardless of visibility conditions, and makes it easier to ensure coverage for inspection operations.
- High Definition (HD) forward view camera for broadcast quality imagery available
- Electric or manual wind tether reels for tether management.
- Integrated controller with LCD monitor and DVR
- Aux LED lighting for task specific illumination

Benefits:

- Lightweight
- Open Frame & Modular Components
- Intuitive controller
- High resolution color, zoom camera
- Lights that tilt with camera
- Variable speed control/trim
- Remote & auto focus
- Depth rated to 1,000ft/300m
- Four powerful thrusters
- Auto Depth & Auto Heading
- Inspect laterally
- Customizable platform for tooling & sensors
- Delivered in four portable Pelican™ Cases





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Item	Part No.	QTY	Unit	Description	Unit Price	Extension
SM300F-1500550		1	SYS	Seamor 300F inspection-class 1000ft/300m depth rated	Call for Price	Call for Price
Vehicle		1	assy	300F vehicle depth rated to 1000ft/300m		
		4	ea	150W thrusters (2 x horizontal, 2 x vertical)		
		1	ea	460 TV Line, 1.5 Lux forward view, 40x zoom, color camera		
		2	ea	50W Halogen lights (~2400 lumens total/lateral)		
		1	assy	Camera and light canister with 180 degree tilt		
		1	assy	ABS high impact, I-Beam vehicle frame – black		
		1	ea	Syntactic foam float yellow		
		1	assy	Primary wiring harness		
		1	assy	Aux wiring harness		
		1	assy	Modular electrical canister		
		2	set	Ballast weights		
Controller		1	assy	Pelican Case mounted controller		
		1	ea	19" Monitor mounted in controller lid		
		1	ea	DVR mounted in controller		
Power Supply		1	assy	Pelican Case mounted power supply with GFCI		
		1	ea	Power supply cable		
		1	ea	Interconnect cable		
Umbilical		1	assy	550ft/165m fibre optic tether *includes bottom end connector, top end wired into reel slip ring		
		1	assy	Manual reel with slip ring in 0350 Pelican Case *includes handle, variable and lock-out brake, deck cable <i>Standard Tether Conductors: F1 FWD view camera, F2 Spare, F3 Spare, F4 Spare (aux camera), TP1 System Communication, TP2 Spare or Imagenex 852 or Tritech Micron DST, 4 x copper for power</i>		
Shipping Cases		1	ea	1660 Pelican Case for vehicle		
		1	ea	1550 Pelican Case Controller		
		1	ea	1500 Pelican Case Power Supply		
		1	ea	0350 Pelican Case included with manual reel		

SPARES

		1	ea	150W Thruster		
		1	assy	Tool box		
		1	assy	General Spares Kit		

Documentation and Manuals

		1	ea	Operational Manual - hard copy		
		1	ea	Operational and technical manuals on USB		

WARRANTY

		1	ea	24 month (2 year) Seamor Limited Warranty *some conditions apply, warranty is transferrable at any can be extended up to 5 years (see options below)		
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ROV SYSTEM OPTIONS

Item	Part No.	QTY	Unit	Description	Unit Price	Extension
Camera						
	RC300-0001	0	MOD	Crystal Cam Auxiliary color video camera (Rear) 300m (1000ft) depth rating		
	FCHD-0001	0	MOD	Upgrade to broadcast quality, high definition (HD) forward color camera with: 120:1 (10x optical, 12x digital) zoom, 2,000,000 effective pixels		
Controller						
	LCD-001	0	MOD	19" LCD Monitor mounted in controller lid		
	LCD-002	0	MOD	Daylight readable monitor mounted in controller lid		
	SS-001	0	EA	Controller mounted folding sunshade		
	TBD	0	EA	Toughbook Laptop		
Lighting						
	TBD	0	EA	External LED lighting module - ~1000 Lumens per		
	TBD	0	EA	External halogen lighting module - 50W, ~1200 Lumens per		
Umbilical						
	UFR-0002	0	EA	Fibre optic tether cable (8.95 USD per foot - max. 915m/3000ft.)		
	TBD	0	EA	Focal Board Multiplexor Upgrade <i>Upgraded Tether Conductors: F1 FWD view camera, F2 Spare, F3 Spare, F4 – Multiplexor and spare (aux camera), TP1 System Communication, TP2 Spare or Imagenex 852 or Tritech Micron DST, 3 x Spare communication channels, 4 x copper for power</i>		

SPARES

Umbilical						
	TBD	0	MOD	Seamor 300F 550ft/165m tether and connectors		
	KU300FWET	0	KIT	Seamor 300F Tether Termination Kit (wet end)		
	KU300FTOP	0	KIT	Seamor 300F Tether Termination Kit (top end)		
	UM-0001	0	EA	Seamor Tether Termination Mould - top and wet end		
Vehicle						
	WHS300F-0001	0	MOD	Seamor 300F Standard wiring harness		
	WHO300F-0001	0	MOD	Seamor 300F Options wiring harness		
	TH15048	0	MOD	150W (48V 3.33A) Thruster		
Packages						
	KS300F150-0002	0	KIT	Seamor 300F 150W Spares Package: 2 Right-Hand Prop, 2 Left-Hand Prop, Sony Camera Head, Camera Window, 2 Light Windows, 2 Light Bulb, 4 x 200 hrs O-ring seal kit, Std Wiring Harness, Aux Wiring harness, 50 Trim Washers, Clips (Pack of 10), Float mounts		
Parts						
	THPP-0001	0	EA	Replacement Port Propeller (price per)		
	THPS-0001	0	EA	Replacement Starboard Propeller (price per)		

WARRANTY

WSMLADD	0	EA	Extended Warranty. Up to a total of 5 years at 15% of system value per year. Available with the initial purchase of the system only. Warranty is fully transferable at no cost.
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TOOLING AND SENSOR OPTIONS*

Item	Part No.	QTY	Unit	Description	Unit Price	Extension
Sonar						
		0	EA	Imagenex 852 Imaging Sonar		
		0	EA	Imagenex 852 Imaging Sonar Integration (no integration chg at time of build)		
		0	EA	Imagenex 881A Imaging Sonar		
		0	EA	Imagenex 881A Imaging Sonar Integration (no integration chg at time of build)		
		0	EA	Tritech Micron DST, 750 meter		
		0	EA	Tritech Micron DST, 750 meter Integration (no integration chg at time of build)		
		0	EA	BlueView ProViewer P-900E-20 Imaging Sonar		
		0	EA	BlueView ProViewer P-900E-20 Imaging Sonar Integration		
		0	EA	BlueView ProViewer DF900-2250		
		0	EA	BlueView ProViewer DF900-2250 Integration		
		0	EA	BlueView ProViewer P-450E-15 Imaging Sonar		
		0	EA	BlueView ProViewer P-450E-15 Integration		
		0	EA	BlueView BV-250 Integrated Sonar and Video Capture System		
		0	EA	Sound Metrics DIDSON Integration - call for details		
Thickness Gauge						
		0	EA	Cygnus Mini ROV ultrasonic metal thickness gauge		
		0	EA	ROV Holder for Cygnus Mini ROV ultrasonic metal thickness gauge		
		0	EA	Cygnus Mini ROV gauge and holder Integration		
Positioning						
		0	EA	LinkQuest TrackLink USBL Acoustic Tracking 1500 Series		
		0	EA	LinkQuest TrackLink USBL Acoustic Tracking 1500 Series Integration		
		0	EA	Desert Star Pilot SBL Tracking System – Basic		
		0	EA	Desert Star Pilot SBL Tracking System Integration		
		0	EA	Desert Star Pilot SBL Tracking System – Performance		
		0	EA	Desert Star Pilot SBL Tracking System Integration		
		0	EA	Tritech MicronNav surface interface unit USBL dunking unit, transducer, and a 750m subsea modem		
		0	EA	Tritech MicronNav transponder, 750 meter		
		0	EA	Tritech MicronNav surface and transponder integration		
Gripper/Manipulator						
		1	EA	Micro Manipulator		
		1	EA	Micro Manipulator Integration		
		0	EA	Three Jaw Grabber, 300M, Gen 2, 2 Pin Assembly		
		0	EA	Three Jaw Grabber Integration		
Video Enhancement						
		0	EA	LYYN T38 External Unit		
		1	EA	LYYN HAWK		
		1 EA		LYYN HAWK Integration		
Laser Measurement						
		1	EA	Double Line Laser Scaling System - 5.5" gap for referencing. Lasers tilt with color, zoom camera		
Other						
		0	EA	Imagenex 863 Altimeter		
		0	EA	Imagenex 863 Altimeter Integration		
		0	EA	Tritech Micron Echosounder, 750 meter		
		0	EA	Tritech Micron Echosounder Integration		
		0	EA	LinkQuest NavQuest 600P Micro DVL		
		0	EA	LinkQuest NavQuest 600P Micro DVL Integration		
				*Laptop is not included with tooling or sensor options. All required software is included.		

Sub-Total
Tax Shipping
Total Deposit



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TERMS AND CONDITIONS OF SALE

Product: ROV Seamor Price Sheet

Quotation No: sca090706-0 Seamor 300F

Taxes/Duties: Unless otherwise indicated. List prices are exclusive of any applicable taxes and/or duties.

Terms Of Payment: 40% deposit, balance upon delivery

Estimated Ship Date: 6-10 weeks ARO

Shipping Terms: Scantron Robotics USA, Inc.

Ship Via: TBD

Priority: TBD

Shipping Address: TBD

Video Format: NTSC or PAL (specify on PO)

System Voltage: 110V or 22V (specify on PO)

Warranty: Seamor Limited 24 month Warranty (extendable to 5 years, fully transferable)

Training: Please inquire for available training dates. Pre-booking required a minimum of 30 days in advance and is subject to availability.
Training 2000.00 per day, five day minimum

Thank you for your interest in our products and your consideration. Please contact our office directly or your local dealer should you have any questions or comments.

Sincerely,

Rusty Goeller
V.P. General Manager

SCANTRON ROBOTICS, Inc.

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