

Remotely Operated Vehicle

General

FOR OFFICE USE ONLY:

Version # _____

APP # 703420

1. Applicant Information

- a. Applicant Name Fresno County Sheriff's Office
- b. Organizational Unit
- c. Address PO Box 1788
- d. Address 2 2200 Fresno St
- e. City Fresno State CA Zip 93717-1788
- f. Federal ID Number 94-6000512 Reference No. 4000000026-04
- g. Agency Type
- City County
- State Agency District

2. Project Information

- a. Project Name Remotely Operated Vehicle
- b. Is implementing agency same as Applicant Yes No
- c. Implementing Agency Name
- d. Project Start Date Oct-01-2018 End Date Sep-30-2019
- e. Amount of Funds Requested \$140,000.00 Project Cost \$140,000.00

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APP # 703420

3. Contacts

a. Project Administrator

Name	Robert Dutrow				
Title	Sergeant				
Mailing Address	2200 Fresno St.				
City	Fresno	State	CA	Zip	93721
Telephone	(559) 600-3111			Fax	
E-mail Address	robert.dutrow@fresnosheriff.org				

Letter of Intent

FOR OFFICE USE ONLY:

Version # _____

APP # 703420

1. Statement of Need

This cover letter is to respectfully request assistance from the Department of Parks and Recreation, Division of Boating and Waterways, for the purchase of an underwater Remotely Operated Vehicle (ROV). If selected, the Fresno County Sheriff's Office Boating and Dive Team will utilize the ROV on the overwhelming majority of the team's dive missions. These missions mostly consist of locating drowning victims, boat accident victims, and sunken vessels. The ROV would allow the team to operate at significantly less risk to divers, and with greater overall efficiency and effectiveness. The ROV provides meticulous scene documentation, allowing for the geotagging of photographs and videos, and high resolution acoustic images.

Fresno County is over 6,000 square miles and has a population in excess of one (1) million. Fresno County stretches from the Coastal Mountains to the Sierra Nevada Mountains. There are over fifty-three (53) square miles of lakes, comprised mostly of the eight (8) large lakes available for public use year-round. Fresno County has two (2) major rivers that total one hundred and twenty-nine (129) miles of navigable waters. The Fresno County Sheriff's Office Boating and Dive Team is the only dive team in Fresno County and is utilized to assist other agencies with underwater search and recovery efforts within their jurisdictions. Fresno County is predominantly an agricultural county. Fresno County withdrew 3.7 billion US gallons of fresh water per day in 2000 (more than any other county in the United States). Consequently, Fresno County has two hundred and six (206) named canals with thousands of miles of canals and water distribution networks.

In the last two years, the Fresno County Boating and Dive Team has responded to over twenty-five (25) drownings and six (6) fatal boating accidents. Every response has been accompanied by an underwater diver deployment. Several of these dives and recovery efforts have been made at high altitude (over 7600 feet), in swift current, and to extreme water depths (in excess of 100 feet). These conditions are extremely hazardous to underwater SCUBA diving and our recovery efforts, which drastically limits our underwater searching efforts (bottom time) and massively increases the risk to the divers.

If granted, the Remotely Operated Vehicle would be deployed before every dive to mitigate risk to the diver and to increase the effectiveness of the Boating and Dive Team operations. The ROV would utilize advanced underwater imaging sonar and high resolution cameras to locate underwater targets. In many situations, the ROV grabber attachment could be deployed to eliminate the need for a diver at all. The ROV would truly allow for a metamorphosis in dive team operations from numerous divers deployed in hasty grid searches, to precise target specific deployments. In addition, the ROV could be deployed in bodies of water too treacherous or hazardous for a diver to operate in, operate at depths well beyond diver limits (up to 1000 feet), and use advanced sonar technology to effectively see in pitch black water. It can also support dive operations further by carrying tools to deployed divers, which simplifies decompression, and be used to supervise dive missions from topside in real time.

The addition of an ROV, to the Boating and Dive Team, would dramatically increase our ability to deliver more effective and efficient services to the citizens and patrons of the Fresno County waterways. In addition, it would significantly reduce the risks incumbent with public safety diving.

The Fresno County Sheriff's Office Boating and Dive Team is specifically requesting to purchase a Teledyne SeaBotix LBV 300-5 all-inclusive package. The details of the ROV are as follows:

- 300 m (1000 ft) Depth Rated LBV System
- Integrated Navigation Console
- Three Jaw Grabber Attachment
- Tritech Gemini Imaging Sonar, 130 deg. Field of View
- Imaging Sonar VDSL Integration Kit
- Tritech Micron Positioning System
- 5 day Comprehensive Service, Maintenance, and Flight Training

The estimated cost for the above listed items is \$145,681.

If you have any questions or need further information, please do not hesitate to contact me.

Thank you.

Sergeant Robert Dutrow

Fresno County Sheriff's Office

District and County Information

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Version # _____

APP # 703420

1. California State Senate Districts

Select one or more of the California State Senate Districts where the proposed project activities will occur. Copy and Paste the URL (http://www.legislature.ca.gov/legislators_and_districts/districts/districts.html) in your browser to determine the State Senate district(s).

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2. California State Assembly Districts

Select one or more of the California State Assembly Districts where the proposed project activities will occur. Copy and Paste the URL (http://www.legislature.ca.gov/legislators_and_districts/districts/districts.html) in your browser to determine the State Assembly district(s).

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| <input type="checkbox"/> State Assembly 71 | <input type="checkbox"/> State Assembly 72 | <input type="checkbox"/> State Assembly 73 | <input type="checkbox"/> State Assembly 74 | <input type="checkbox"/> State Assembly 75 |
| <input type="checkbox"/> State Assembly 76 | <input type="checkbox"/> State Assembly 77 | <input type="checkbox"/> State Assembly 78 | <input type="checkbox"/> State Assembly 79 | <input type="checkbox"/> State Assembly 80 |

District and County Information for Boating Safety and Enforcement Equipment Grant - FY 2018 / 19
 Agency: Fresno County Sheriff's Office
 Application: Remotely Operated Vehicle

3. California Congressional Districts

Select one or more of the California Congressional Districts where the proposed project activities will occur. Copy and Paste the URL (<https://www.govtrack.us/congress/members/CA>) in your browser to determine the Congressional district(s).

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| <input type="checkbox"/> Congressional District 1 | <input type="checkbox"/> Congressional District 2 | <input type="checkbox"/> Congressional District 3 | <input checked="" type="checkbox"/> Congressional District 4 |
| <input type="checkbox"/> Congressional District 5 | <input type="checkbox"/> Congressional District 6 | <input type="checkbox"/> Congressional District 7 | <input type="checkbox"/> Congressional District 8 |
| <input type="checkbox"/> Congressional District 9 | <input type="checkbox"/> Congressional District 10 | <input type="checkbox"/> Congressional District 11 | <input type="checkbox"/> Congressional District 12 |
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| <input type="checkbox"/> Congressional District 49 | <input type="checkbox"/> Congressional District 50 | <input type="checkbox"/> Congressional District 51 | <input type="checkbox"/> Congressional District 52 |
| <input type="checkbox"/> Congressional District 53 | | | |

4. County

Select one or more of the California Counties where the proposed project activities will occur.

- | | | | | | |
|---------------------------------------|--|--------------------------------------|--|-------------------------------------|---|
| <input type="checkbox"/> Alameda | <input type="checkbox"/> Alpine | <input type="checkbox"/> Amador | <input type="checkbox"/> Butte | <input type="checkbox"/> Calaveras | <input type="checkbox"/> Colusa |
| <input type="checkbox"/> Contra Costa | <input type="checkbox"/> Del Norte | <input type="checkbox"/> El Dorado | <input checked="" type="checkbox"/> Fresno | <input type="checkbox"/> Glenn | <input type="checkbox"/> Humboldt |
| <input type="checkbox"/> Imperial | <input type="checkbox"/> Inyo | <input type="checkbox"/> Kern | <input type="checkbox"/> Kings | <input type="checkbox"/> Lake | <input type="checkbox"/> Lassen |
| <input type="checkbox"/> Los Angeles | <input type="checkbox"/> Madera | <input type="checkbox"/> Marin | <input type="checkbox"/> Mariposa | <input type="checkbox"/> Mendocino | <input type="checkbox"/> Merced |
| <input type="checkbox"/> Modoc | <input type="checkbox"/> Mono | <input type="checkbox"/> Monterey | <input type="checkbox"/> Napa | <input type="checkbox"/> Nevada | <input type="checkbox"/> Orange |
| <input type="checkbox"/> Placer | <input type="checkbox"/> Plumas | <input type="checkbox"/> Riverside | <input type="checkbox"/> Sacramento | <input type="checkbox"/> San Benito | <input type="checkbox"/> San Bernardino |
| <input type="checkbox"/> San Diego | <input type="checkbox"/> San Francisco | <input type="checkbox"/> San Joaquin | <input type="checkbox"/> San Luis Obispo | <input type="checkbox"/> San Mateo | <input type="checkbox"/> Santa Barbara |
| <input type="checkbox"/> Santa Clara | <input type="checkbox"/> Santa Cruz | <input type="checkbox"/> Shasta | <input type="checkbox"/> Sierra | <input type="checkbox"/> Siskiyou | <input type="checkbox"/> Solano |
| <input type="checkbox"/> Sonoma | <input type="checkbox"/> Stanislaus | <input type="checkbox"/> Sutter | <input type="checkbox"/> Tehama | <input type="checkbox"/> Trinity | <input type="checkbox"/> Tulare |
| <input type="checkbox"/> Tuolumne | <input type="checkbox"/> Ventura | <input type="checkbox"/> Yolo | <input type="checkbox"/> Yuba | | |

Application Information

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1. Citation Authority

Does your boating safety and enforcement unit have citation authority? Yes No

If YES, Code # PC 836(a)

Does your boating safety and enforcement unit have arrest authority? Yes No

If YES, Code # PC 836(a)

Do you have an active marine patrol program? Yes No

Number of marine patrol officers:

- a. Full Time 3
- b. Part Time 10

2. Boating Safety and Enforcement Income

Tax Revenue:

Market Value of all registered boats	32,910,100
Multiplied by Tax Rate	0.010
	329,101.00
Multiplied by County's General Tax Allocation Factor(%)	13.8279
Boat Tax Revenue	45,507.76

Other Revenue:

- a. other local revenue sources 0.00
- b. Any state funding sources, including DBW 452,764.00

TOTAL ANNUAL INCOME 498,271.76

Expenditures for boating safety and enforcement as defined in Section 663.7 (a) of the Harbors and Navigation Code: 863,484

If you received an equipment grant in the previous closed year, did you expend at least 95% of the grant? Yes No N/A

If NO, the agency left a balance of \$

If you participate in the subvention program, were all allocated funds expended in the previous closed year? Yes No N/A

If NO, the agency left a balance of \$

3. Describe your agency's boating safety and enforcement activities

The Fresno County Sheriff's Office Boating Enforcement Unit consists of one (1) full-time Sergeant and two (2) full-time

Application Information for Boating Safety and Enforcement Equipment Grant - FY 2018 / 19
 Agency: Fresno County Sheriff's Office
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Deputy Sheriffs who work in the unit year round. During the peak summer months, between May and September, the unit hires four (4) additional Deputy Sheriffs and six (6) paid Reserve Deputies.

During the summer boating season the unit deploys six (6) teams (two-persons each) forty hours a week on the County's eleven waterways. The Boating Enforcement Unit enforces all Federal, State, and County regulations related to all water and boating activities. The Boating Enforcement Unit is responsible for all water related search and rescue operations, drowned body recoveries, and vessel accident investigation.

4. Describe your agency's needs for this grant

- a. Is the grant request for:
 - New Patrol Boat
 - Equipment / Repairs

** All items purchased with funding provided by the Division of Boating and Waterways are for the exclusive use of the Boating Safety and Enforcement Unit.*

- b. Your BS&E unit will use this patrol boat for _____ hours per week.
- c. Describe patrol boat in a two-foot window (ex. 19' - 21')
- d. Please upload boat specifications for review
- e. Describe type of engine and propulsion
- f. Describe trailer
- g. Give estimated cost of above
- h. Attach at least two quotes

Name	Attachment
SeaBotix	SBX17-00944 Fresno Sheriff LBV300-5 RevB_19Apr18.pdf
VideoRay	SF_11970 Fresno County Sheriff P4_IP65_V3.pdf

5. Describe the recreational boating activity on your waterways:

At 6,000 square miles in size, Fresno County is one of the largest counties in California. As such, it has many recreational boating areas and opportunities available for public use. Fresno County contains eight large lakes that are available for public use year round, and has two major rivers that total approximately 129 miles of navigable waters. The lakes and sloughs of Fresno County provide recreational boaters with approximately 53 square miles of water. These sloughs and lakes range in elevation from approximately 100' to 8000'. The County's largest lake, Pine Flat Lake, holds about one million acre feet of water and occupies 9.5 square miles. Another popular Fresno County lake, Shaver Lake, has seen a 400% increase in recreational boating activity over the past ten years. Most Fresno County waterways are used on a year round basis, though the busiest recreational use takes place between Memorial Day and Labor Day.

Fresno County is renowned for its sail boat regattas, bass fishing tournaments, and pristine wake boarding conditions. It is also a highly desirable destination for extreme kayaking and canyoneering. These attributes draw tourists and extremist alike from all over the world.

6. Describe patrol boat/trailer/outboard motor being replaced

Application Information for Boating Safety and Enforcement Equipment Grant - FY 2018 / 19
 Agency: Fresno County Sheriff's Office
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a. **Vessel**

Year	Make	Length	CF#	HIN #

b. **Trailer**

Year	Make	Length	Axles	License	VIN#

c. **Outboard Motor(s)**

Year	Make	Horsepower	Serial #

- d. If requesting to replace/modify a vessel, your agency must provide the completed Office of Fleet Administration #6 form (OFA6).

7. **List your boating inventory (County and State owned)**

Year	Make	CF #
1995	Design Concepts	CF 3367 XC
1998	Woolridge	CF 3950 XC
2000	Woolridge	CF 4157 XC
2001	Jetcraft	CF 4160 XC
2001	Chinook	CF 4265 XC
2004	Design Concepts	CF 4655 XC
2006	Yamaha	CF 4854 XC
2006	Yamaha	CF 6651 XF
2016	Rogue	CF 5717 XC
2017	Rogue	CF 5770 XC

Project Cost Estimate

FOR OFFICE USE ONLY:		Version # _____	APP # 703420			
	Line Item	Qty	Rate	UOM	Req Amount	Total
1	Equipment					
	Search and Rescue Equipment	1.0000	140000.000	EA	140,000.00	140,000.00
2	Adjustment					
TOTAL EXPENDITURES					140,000.00	140,000.00

Budget Summary for Boating Safety and Enforcement Equipment Grant - FY 2018 / 19
Agency: Fresno County Sheriff's Office
Application: Remotely Operated Vehicle

4/19/2018

	Category	Req Amount	Total	Narrative
1	Equipment	140,000.00	140,000.00	
2	Adjustment	0.00	0.00	
TOTAL EXPENDITURES		140,000.00	140,000.00	

Certifications

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Applicant Certification

- a. Under penalty of perjury, I certify that I have examined this application and the document(s), proposal(s), and statement(s) submitted in conjunction herewith, and that to the best of my information and belief, the information contained herein is true, accurate, correct, and complete.
- b. I certify that I am the person authorized to submit this application on behalf of the applicant.

Name: Robert Dutrow

Title: Sergeant

Date Signed: 04/19/201

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Attachments Index

FOR OFFICE USE ONLY:

Version # _____

APP # 703420

#	Section	Title	File Name
1	Application Information	SBX17-00944 FresnoSheriff LBV300-5 RevB_19Apr18.pdf	19898_0_SBX17-00944 FresnoSheriff LBV300-5 RevB_19Apr18.pdf
2	Application Information	SF_11970_Fresno County Sheriff-P4_IP65_V3.pdf	19898_1_SF_11970_Fresno County Sheriff-P4_IP65_V3.pdf

Quotation



9970 Carroll Canyon Rd, Suite B
San Diego, CA, 92131
Tel: 619-450-4000

LBV300-5
with 24 month warranty
12 months on 3rd party items
Rev 22Feb18

Quote Number: SBX17-00944 (RevB)
Date: 19-Apr-18
Quote Valid Until: 18-Jul-18

Sales Person: Sean Newsome
Email: sean.newsome@teledyne.com
Phone: 619-764-8274

Payment Terms: NET 30 Days
Shipping Terms: ORIGIN San Diego, CA
Ship Via: Customer Specified
Leadtime: 4-6 Weeks ARO

Video Format: NTSC
Plug Style: US
Input Voltage: 110 VAC
Ballast Trim: Fresh

Quotation For:

Chad Stokes
Fresno County Sheriff
1155 M Street
Fresno, CA 93704
Tel: 559-600-8164
Fax:
Email: Chad.stokes@fresnosheriff.org

Item	Part #	QTY	Unit	Description	Unit Price	Ext. Price
Package Systems						
1	LBV300-5	1	sys	300 Meter (1,000ft) Depth Rated LBV System Including:	44,295.00	44,295.00
LBV Vehicle						
		1	assy	Vehicle 300 Meter (1,000ft) Depth Rated		
		5	assy	High Output Brushless DC Thrusters (oil compensated), Gen 2		
		1	assy	680 Line/0.01 Lux Color Camera, 3.6mm Lens, WDR (wide dynamic range)		
		1	assy	Internal LED Array, 700 lumens, Tracks Camera		
		1	set	Protective Bumper Frame		
Topside Power Supply & Controls						
		1	assy	Integrated Control Console and Surface Power Supply		
		1	assy	Hand Controller Integrated into ICC150 (removable)		
		1	assy	38cm (15") LCD Monitor Integrated into ICC150 - Waterproof		
		1	ea	Hood, for ICC LCD, Crush Texture		
Tether						
	UMB250	1	assy	250 Meter (820ft), connectors and strain relief		
	URS265	1	assy	Tether Reel, 250M, Gen 2, slip ring		
Cases & Packaging						
	CTP007	1	ea	Vehicle Transit Case with Custom Foam		
	CTP004	1	ea	Tether Transit Case with Custom Foam		
Spares						
	BSK301	1	kit	Basic Spares & Tool Kit (includes Vacuum Pump)		
	HPDC1502	1	assy	Spare Brushless DC Thruster Assembly (oil compensated), Gen 2		
	OCT1500	1	kit	Oil Compensation Top Off Kit		
	QRS001	1	assy	Quick Recovery System		
Testing & Documentation						
	DOCS-XXX	1	ea	Operators Manual - USB Drive		
		1	ea	Full Depth LBV Testing		
Warranty						
		2	year	Manufacturer's Limited Warranty *some conditions apply		

OPTIONS						
Power Options						
2	HIA001	0	assy	Housed Inverter Assembly, 3kva, DC-AC	15,995.00	0.00
*includes required qty. of flooded deep cycle batteries						
*allows for operation of ROV without shore-based power or generator						
Forward Thruster Upgrade						
3	HPDU100	0	kit	Forward Thruster Upgrade, Increased Thrust Capacity	3,395.00	0.00
*includes two larger diameter forward thrusters (oil-compensated, Brushless DC)						
*includes spare larger diameter thruster assembly						
Note: Replaces standard forward thrusters.						
Integrated Navigational Console (INC)						
4	INCXXX	1	assy	Integrated Navigation Console including:	15,995.00	15,995.00
Splashproof, rugged case fitted with a retractable handle and wheels						
Waterproof keyboard controls the Windows 7 computer						
20" transfective (daylight readable) color LCD monitor integrated into the upper panel						
Digital video recording capability via integrated hard drive						
Note: Replaces std. ICC in package system.						
Video Enhancement						
5	VEKXXX	0	assy	Video Enhancement, integrated into Lower Panel Assembly	3,995.00	0.00
*Upgrade for ICC or INC including keypad						
Digital Video Recorder Interface						
6	AC007	0	ea	Digital Video Recorder interface , Pinnacle Dazzle, including cables and software	150.00	0.00
Note: Requires external laptop or hard drive on which to record.						
Note: INC comes with hard drive						
Crawler Attachment						
7	CSA305	0	assy	Crawler/VRAM Skid Depth Rated 50 Meters (165ft)	27,995.00	0.00
VRAM Assembly						
Drive Motor Assembly with Tires						
ea Transit Case with Custom Foam, CTP009						
ea Basic Spares Kit (includes spare VRAM impeller and skirt), BSK200						
Ballast Trimmed Fresh or Salt Water						
Note: Depth rating of LBV300-5 is reduced with						
Crawler Skid Assembly attached.						
Cameras						
8	CMA002	0	assy	HD Camera Upgrade, 1080i, HD-SDI output	19,995.00	0.00
*includes upgrade to fiber optic tether, optical slip ring, camera and cabling						
*includes water corrected viewport						
Note: Retains standard camera with HD fitted into port position.						
Note: Not compatible with Imaging Sonar.						
Note: Requires selection of ELS1082, External Lighting.						
9	UCA10X	0	assy	480 Line/1.5 Lux Color Zoom Camera (10x optical) (-NC NTS, -PC PAL)	1,895.00	0.00
*Includes water corrected viewport						
Note: Replaces std. color camera in package system.						
10	RCA300	0	assy	380 TVL/0.5 lux Color Rear Facing Camera, 1/4" CCD, 3.6mm lens	3,295.00	0.00
*Includes camera, LED ring, cable, and mounting hardware						
Grabber						
11	TJG300-2I-6	1	assy	Three Jaw Grabber, 300M, Gen 2 Assembly, LBV300-5 Assembly	2,995.00	2,995.00
*Includes mounting bracket and cable assembly						
12	CHK310	0	assy	Cutter Head, Gen 2 (Guillotine Style)	495.00	0.00
13	IJG300	0	assy	Interlocking Jaw Head, Standard	895.00	0.00
14	IJG301	0	assy	Interlocking Jaw Head, Large	1,095.00	0.00
15	PJG300	0	assy	Parallel Jaw Head, Gen 2	1,595.00	0.00
16	GAK1501	0	kit	Complete Grabber Attachment Kit - Standard Configuration	2,795.00	0.00
*Includes parallel, cutter and std. interlocking attachments						
17	GAK1502	0	kit	Complete Grabber Attachment Kit - SAR Configuration	2,495.00	0.00
*Includes std. interlocking, cutter and large interlocking attachments						
Note: Grabber attachments require TJG300-2I-6.						
Note: Grabber attachments include a custom case and tools.						
Lighting						
18	ELSXXX	1	assy	External Lighting , LED, 2-Head, LBV300-5 Assembly, 1080 Lumens per Head	1,895.00	1,895.00

Scanning Sonar						
19	SN310	0	assy	Tritech Micron Scanning Sonar with Software	8,995.00	0.00
Note: requires integration kit TSS502.						
20	TSS502	0	assy	Tritech Micron Sonar Integration Kit *includes mounting kit, cabling, penetrator and testing	1,195.00	0.00
Imaging Sonar						
21	SN319	0	assy	Tritech Gemini Imaging Sonar, 120 deg. Field of View	33,950.00	0.00
22	SN2869	0	assy	BlueView Imaging Sonar, 900 kHz, 90 deg. Field of View, 1000M rated	25,150.00	0.00
23	SN2870	0	assy	BlueView Imaging Sonar, 900 kHz, 130 deg. Field of View, 1000M rated	28,950.00	0.00
24	SN2871	1	assy	BlueView Imaging Sonar, 900 kHz and 2250 kHz, 130 deg. Field of View, 1000M rated	36,700.00	36,700.00
Note: Imaging Sonars require integration kit TSA503 or TSA508.						
25	TSA503	1	assy	Imaging Sonar VDSL Integration Kit (503/BlueView, 508/Gemini) *Includes all required mounting hardware, skid and VDSL modem integration	4,995.00	4,995.00
Tracking System						
26	SN038	1	assy	Tritech Micron Nav USBL Positioning System *Includes dunking transducer, Seahub and responder/transponder *Includes software and GPS and Output Drivers *Includes 10 meter dunking transducer cable	20,995.00	20,995.00
Note: Micron Nav system requires integration kit TSAXXX						
27	TSAXXX	1	assy	Tritech Micron Nav USBL Tracking System Integration Kit *Includes penetrator, mounting kit and link cabling *Cover plate will be based upon the number of options installed	1,495.00	1,495.00
28	SN026/046	0	assy	Tritech Micron Nav Dunking Transducer Upgrade - 20m *Replaces SN019/038 and increases interface cable from 10m to 20m	21,395.00	0.00
Altimeter						
29	SN001	0	assy	Tritech Micron Echosounder *Determines altitude above seabed	4,695.00	0.00
Note: Echosounder requires integration kit ESAXXX						
30	ESA501	0	assy	Tritech Echosounder Integration Kit	695.00	0.00
31	ESA502	0	assy	Tritech Echosounder Integration Kit *Includes penetrator, mounting kit and link cable	1,395.00	0.00
Auxiliary Connector - Spare Data Channel						
32	ADP001	0	assy	Auxiliary Data/Power Penetrator for Serial Right Angle, Low Profile, 5-Pin *includes connector whip and dummy plug *please call to confirm external device compatibility / wiring requirements	795.00	0.00
33	CN069	0	ea	Mate for Auxiliary Connector (Pigtail/Whip)	195.00	0.00
Scaling Laser						
34	LSS301	0	assy	Laser Scaling System, 50mm (2.0") Separation Tracks Color Camera	1,295.00	0.00
Note: Not compatible with zoom camera option						
Tool Skid						
35	TSAXXX	0	assy	Tool Skid Assembly, Universal	795.00	0.00
Spares						
36	HPDC1502	0	assy	High Output Brushless DC Thruster Assembly *oil-compensated, Gen 2	1,850.00	0.00
37	HPDC1531	0	assy	Increased Thrust High Output Brushless DC Thruster Assembly *oil-compensated	2,350.00	0.00
38	RSK200-4	0	kit	Remote Location Spares Kit *includes essential items for remote service *list depends on system configuration	4,495.00	0.00
39	CSK200-4	0	kit	Comprehensive Spares Kit *includes most items for rebuild - total redundancy *list depends on system configuration	13,295.00	0.00
40	UMB250	0	assy	Tether, 250M (820ft), connectors and strain relief	6,495.00	0.00
41	UMB250-HD	0	assy	Tether, 250M (820ft), connectors and strain relief, Fiber Optic HD	7,995.00	0.00
42	LBV300-5	0	assy	Vehicle 300 Meter (1,000ft) Depth Rated	35,990.00	0.00
43	SBA300	0	assy	Deployment Retrieval Sheave, 10"	595.00	0.00

TRAINING

Training at SeaBotix Waterfront Facility, San Diego, CA

44	TRN001	0	ea	3-Day Comprehensive Service, Maintenance and Flight Training at the SeaBotix facility in San Diego, CA, for two trainees.	3,600.00	0.00
45	TRN002	1	ea	5-Day Comprehensive Service, Maintenance and Flight Training at the SeaBotix facility in San Diego, CA, for two trainees.	6,000.00	6,000.00
46	TRN003	0	ea	Additional persons, over two (2) trainees above, per day at the SeaBotix Facility in San Diego, CA, Ex: \$250 per day x 5 days x 2 Trainees, OR Ex: \$250 per day x 3 days x 2 Trainees	250.00	0.00

NOTE: One trainer per selection. Class size not to exceed eight (8) Trainees.
 Training **DOES NOT** include airfare, accommodations or other travel expenses.
 Training dates must be requested **at least 30 days in advance** and are subject to availability.
 Contact Sales prior to training to ensure curriculum matches user's needs.
 Lunch and refreshments are included.
 Cancellation fees may apply.

Training at Customer Site - Within Continental USA

47	TRN004	0	ea	3-Day Comprehensive Service, Maintenance and Flight Training at Customer Site, not to exceed four (4) Trainees	7,600.00	0.00
48	TRN005	0	ea	5-Day Comprehensive Service, Maintenance and Flight Training at Customer Site, not to exceed eight (8) Trainees	11,400.00	0.00

NOTE: One trainer per selection.
 Training **DOES** include airfare, accommodations or other travel expenses.
 Training dates must be requested **at least 45 days in advance** and are subject to availability.
 Contact Sales prior to training to ensure curriculum matches user's needs.
 Cancellation fees may apply.

Training at Customer Site - Outside Continental USA

49	TRN006	0	ea	3-Day Comprehensive Service, Maintenance and Flight Training at Customer Site, not to exceed four (4) Trainees	13,500.00	0.00
50	TRN007	0	ea	5-Day Comprehensive Service, Maintenance and Flight Training at Customer Site, not to exceed eight (8) Trainees	16,500.00	0.00

NOTE: One trainer per selection.
 Training **DOES** include airfare, accommodations or other travel expenses.
 Training dates must be requested **at least 45 days in advance** and are subject to availability.
 Contact Sales prior to training to ensure curriculum matches user's needs.
 Cancellation fees may apply.

	List Price
Sub Total	\$135,365.00
Sales Tax	\$10,316.86
Shipping	TBD
Total	\$145,681.86

*Ship Date. Teledyne SeaBotix will not be held liable for any penalties, monetary or other that may occur as a result of late delivery. Everything possible will be done.

**Terms. Seller's Offer, and any order issued by Buyer to Seller for the goods and/or services specified herein, is strictly limited to Seller's Terms and Conditions of Sale, which can be found at www.SeaBotix.com

All prices are in United States Dollars.

Shipping quotes are estimates only and may be adjusted following actual shipment.

Note: These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Warranty: Under the Teledyne Marine Terms and Conditions of Sale, Section 17. "Return Authorization", SeaBotix goods repaired or replaced under warranty, during the first twelve (12) months of the original warranty period (months 1-12), shall be returned to Buyer or Buyer's Customer at Seller's expense. SeaBotix goods repaired or replaced under warranty, during the remainder of the original warranty period (months 13-24) shall be returned to Buyer or Buyer's Customer at Buyer or Buyer's Customer's expense."

QUOTATION



Quotation 00011970
 Company Address 212 East High St
 Pottstown, Pennsylvania 19464
 United States
 Phone (610) 458-3000
 Fax (610) 458-3010

Instructions Items are Berry Compliant manufactured in the United States and have an estimated shipping date of 45 days after order receipt. Shipping estimated via UPS ground.

7.975% CA Sales tax added (\$8248.14) for customer budgetary estimate requirements only.

All quotations are subject to attached VideoRay Standard Terms and Conditions or www.videoray.com/stc

Terms Net 30

VideoRay Contact

Account Executive	Mark Fleming	Created Date	3/15/2018
Email	mark.fleming@videoray.com	Expiration Date	8/24/2018
Phone	(484) 441 0155	Fax	(610) 458-3010

End User

Contact Name	Chad Stokes	Email	chad.stokes@fresnosheriff.org
Ship To	Fresno County (CA) Sheriff's Department	Bill To	Fresno County (CA) Sheriff's Department
Address	1155 M Street Fresno, California 93724 United States	Address	1155 M Street Fresno, California 93724 United States

Product	Part Number	Line Item Description	Unit Price	Quantity	Total Price
Pro 4 IP65 BASE Model	70239	Includes Pro 4 CERAKOTE Submersible, Pro 4, Imaging Sonar Ready, IP65 Pro 4 Control Box, 15" Day Bright Monitor and, IP65 Hand Controller.	USD 55,995.00	1.00	USD 55,995.00
BlueView V900-130 Sonar System with VideoRay Integration Kit	50092	130° field-of-view multi-beam imaging sonar with VideoRay integration kit.	USD 26,000.00	1.00	USD 26,000.00
Lyn Hawk Board (Installation included on new systems)	LH-001-IKIT	Electronic real time video enhancement & clarification.	USD 4,995.00	1.00	USD 4,995.00
Manipulator - Pro 4 with standard mounts	MNP-KIT-P4	Object and sample retrieval.	USD 2,495.00	1.00	USD 2,495.00
Recovery and Retrieval Tools Kit	RCVRY-001-KIT	Object retrieval up to two tons.	USD 1,555.00	1.00	USD 1,555.00
500 ft (152m) Neutral	THR-N-500-KIT	Neutrally Buoyant Tether (plug and play)	USD 5,295.00	1.00	USD 5,295.00
		Extended Capacity Tether roller in Pelican 0350 case with			

Tether Deployment System - Extended	70452	400 volt slip ring for transportation and deployment of umbilical.	USD 6,395.00	1.00	USD 6,395.00
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Shipping and Handling	USD 307.50
Tax	USD 8,248.14
Grand Total	USD 111,285.64

General Terms and Conditions for Sale

- 1. DEFINITIONS** "Seller" means VideoRay LLC. "Buyer" means the legal entity purchasing Goods from Seller. "Goods" means the products offered by Seller and/or purchased by Buyer. "Offer" means any quote, proposal, or offer to sell Goods provided by Seller to Buyer. "Order" means any purchase order or similar instrument issued by Buyer to Seller to purchase Goods.
- 2. ACCEPTANCE** Buyer's acceptance of Seller's Offer and its submission of this Order constitute acceptance of these Terms and Conditions. Seller's acceptance of Buyer's Order, and any changes or amendments thereto, are subject to Buyer's assent to these Terms and Conditions unless agreed otherwise in writing by a duly authorized representative of Seller. Seller's failure to object to any other terms and conditions contained in any communication from Buyer does not waive any of the terms and conditions specified herein. Buyer's Order shall be binding upon the Parties upon the earlier of Seller (i) executing and returning an Order acknowledgement to Buyer, (ii) commencing performance pursuant to Buyer's Order, or (iii) delivering to Buyer any of the Goods and/or Services under Buyer's Order.
- 3. PRICES** Except as otherwise agreed in writing by Seller the prices offered apply only to the specific quantities, specifications, and delivery schedules set forth in Seller's Offer. Any variation in quantity, specifications, or delivery schedules may necessitate a price and/or delivery schedule adjustment. Unless stated otherwise, all prices for domestic deliveries and international deliveries are FOB Pottstown, Pennsylvania.
- 4. CREDIT APPROVAL AND PAYMENT** Standard payment terms are set forth in Seller's quotation and/or invoice. Any payment terms are subject to credit approval of Buyer by Seller. Payment terms for international orders may be cash in advance by wire transfer or other mutually agreed arrangement. Credit terms, shipments, and performance of work are always subject to the approval of Seller's Credit Department. Each shipment is a separate and independent transaction and payment must be made by Buyer accordingly. If, prior to shipment of Buyer's Order, Buyer fails to fulfill the terms of payment of any prior invoice submitted by Seller or, if in the opinion of Seller, Buyer's financial condition becomes impaired or unsatisfactory, Seller reserves the right to change, without notice, the terms of payment and/or delay or discontinue further shipments, until past due obligations have been paid and Seller has received acceptable assurance regarding Buyer's prompt payment of future obligations. All amounts due to Seller but not paid by Buyer on the due date shall bear interest payable by Buyer to Seller at a rate of one and one half percent (1.5%) per month.
- 5. TAXES** The amount of any present or future sales, use, excise, import duty, or other tax applicable to the manufacture, sale, or lease of Goods will be added to the invoice and must be paid by Buyer, unless the Buyer provides Seller with a tax exemption certificate acceptable to the applicable taxing authority or other arrangements have been made in writing.
- 6. SHIPPING TERMS AND RISK OF LOSS** All domestic and international shipments by Seller are FOB Pottstown, Pennsylvania. Risk of loss for Goods will transfer to Buyer upon Seller presenting Goods to carrier. If Seller prepays shipping, insurance, or other related costs, Buyer agrees to reimburse Seller promptly for the actual costs incurred by Seller.
- 7. PACKING AND PACKAGING** If specified in Buyer's Order, Seller shall comply with any special packaging and marking requirements; otherwise, Seller shall package and mark all Goods in accordance with best commercial practices to adequately protect Goods against damage and deterioration during transit. Seller's packing list shall include, at a minimum, Buyer's Order number, line item number(s), part number(s), description(s), and quantity shipped.
- 8. DELIVERY SCHEDULES AND DELAY** Shipping dates are approximate and require prompt prior receipt of all necessary Buyer furnished information and material if applicable. Seller shall not be liable for any damages or losses arising from or related to late deliveries. Without limiting the generality of the foregoing, Seller shall not be liable for any delays due to force majeure including, but not limited to, weather conditions, acts of God, acts of civil or military authorities, fires, strikes, job actions, floods, earthquakes, epidemics, quarantine restriction, war, terrorism, riot, supplier or vendor delays, or any other causes beyond the reasonable control of Seller. In the event of such delay, Seller will promptly notify Buyer and the date(s) of delivery will be deferred for a period commensurate with the time lost due to the delay.
- 9. CANCELLATION** Buyer may request cancellation or termination of Buyer's Order, in whole or in part, by providing written notice to Seller prior to shipment or, in the case of special Orders, prior to the start of manufacture. Seller agrees to cooperate with Buyer in attempting to affect such cancellation or termination conditioned upon Buyer paying Seller for all Goods delivered and/or Services performed, and for all work in process, including all applicable direct and indirect costs, normal profit on such costs, settlements with suppliers, and related termination expenses.
- 10. TERMINATION FOR DEFAULT** Either Party may terminate the Order in the event of a material breach of this Agreement or of the Order by the other party. If a Party (the "Defaulting Party") is in breach of a material provision of this Agreement or the Order, the other Party (the "Non-Defaulting Party") will submit a written cure notice to the Defaulting Party advising of such breach. The Defaulting Party will then have fifteen (15) days to cure the breach. If the Defaulting Party does not cure the breach within the fifteen (15) day period, the Non-Defaulting Party may terminate the Order.
- 11. CHANGE ORDERS AND AMENDMENTS** All change order requests must be submitted by the Buyer to the Seller in writing and will not be effective unless and until Seller consents to the change(s). Seller will advise Buyer in writing of the price and/or delivery schedule impact, if any, of the change request. Seller's acceptance of changes will be subject to Buyer's agreement to any price and/or delivery schedule adjustments.
- 12. LIMITED WARRANTY** Seller warrants that the Goods manufactured by Seller will be free from defects in material and workmanship for a period of twenty-four (24) months from the date of original invoice when operated in accordance with the instructions and safety measures that has been laid out by the seller in the corresponding user guide/web site for each individual product. For additional information regarding product warranty, visit www.videoray.com. EXCEPT AS OTHERWISE SPECIFICALLY STATED IN WRITING IN SELLER'S OFFER OR IN ITS ACCEPTANCE OF BUYER'S ORDER, SELLER DOES NOT MAKE, AND HEREBY DISCLAIMS, ANY IMPLIED WARRANTY OF FITNESS OF THE GOODS FOR ANY PARTICULAR PURPOSE.
- 13. RETURN AUTHORIZATIONS** Buyer will promptly notify Seller of any nonconformity(ies) in the Goods and afford Seller a reasonable opportunity to inspect the Goods. No Goods may be returned without Seller's prior authorization, as evidenced by a return merchandise authorization (RMA). Once a return authorization number is obtained, Buyer will return the non-conforming Goods. Buyer is responsible to package Goods in a safe manner as to avoid any damages from shipping. The return authorization number must appear on the shipping label along with all paperwork associated with the return. Granting a return authorization number does not necessarily mean that a credit will be approved or that the evaluation or repair will take place without a fee.
- 14. INTELLECTUAL PROPERTY AND INDEMNIFICATION** Buyer acknowledges that all the intellectual property rights (including inventions, patents, trademark and copyright) and the know-how, used or embodied in, or in connection with the Goods (including the user guide) shall remain the sole property of Seller. In the event that new know-how is generated or arises, or that the invention (product) evolves as a consequence of the performance, or because of this Agreement, Buyer acknowledges that all intellectual property rights and source code therein shall belong to Seller. And that buyer shall not sell any product containing this intellectual property or source code without the express written consent of the seller.
- 15. INDEMNIFICATION AND LIMITATION OF LIABILITY** Each Party (the "Indemnifying Party") agrees to indemnify, defend, and hold harmless the other Party, its officers, directors, and employees (the "Indemnified Parties") from and against any and all liabilities, losses, expenses, liens, claims, demands, and causes of action, including the Indemnified Parties' legal fees and other costs of litigation ("Claims") for death, personal injury, or property damage arising out of any negligent act or omission of the Indemnifying Parties in the performance of Buyer's Order, except to the extent such losses are contributed to by (a) the negligence or willful misconduct of the Indemnified Party, or (b) the negligence or willful misconduct of any third-parties related to the Indemnified Party. Except for violations of law, under no circumstances shall either Party be liable for any consequential, special, incidental, indirect, multiple, administrative, or punitive damages, or any damage of an indirect or consequential nature arising out of or related to its performance under Buyer's Order or the use of the Goods by Buyer or by any third party, including, without limitation, loss of use, loss of revenues, loss of anticipated profits, and cost of capital, whether based upon

breach of Buyer's Order, warranty, negligence, or any other type of Claim, and whether grounded in tort, contract, civil law, or other theories of liability, including strict liability, even if advised in advance of the possibility of such damages. Seller's total liability arising from or related to Buyer's Order, including, but not limited to, its liability for indemnity, defense, and hold harmless obligations under Buyer's Order, is limited to no more than the amount paid by Buyer to Seller under Buyer's Order, and Buyer agrees to indemnify Seller for any excess amounts.

16. ARBITRATION AND LAW Any disputes, controversies or differences arising between the parties by virtue of this agreement, which are not resolved amicably, will be finally resolved through arbitration. The arbitration shall be conducted in English and comply with the Commercial Rules of the American Arbitration Association. The arbitration, including the rendering of the decision, shall take place in Montgomery County, Pennsylvania.

17. ASSIGNMENT Buyer may not assign, sublicense or otherwise deal with its rights or obligations under this Agreement, in whole or in part, to any third party.

18. UNENFORCEABLE PROVISIONS Should any part of this Agreement be held to be unenforceable or in conflict with the applicable laws or regulations of any jurisdiction, the remaining provisions of this Agreement shall be fully effective, operative and enforceable.