



**DEPARTMENT HEADQUARTERS  
1800 ELMERTON AVENUE  
HARRISBURG, PA 17110**

**PSP IFB 6100057239 SPECIFICATIONS**

**I-1. Statement of the Project**

**A. Overview/Scope**

PA State Police Bureau of Criminal Investigation Intelligence Division needs to order a Sea Scan ARC Explorer MK11 900/1800 System with Getac that is a side scan sonar tool that produces detailed images of the underwater environment.

This device scans several hundred feet with each pass of the waterborne vessel, allowing large areas to be searched quickly and efficiently. This necessary device enables law enforcement to conduct sonar scans near bridge supports, dams, and ship hulls in the various ports and bodies of water across the Commonwealth for detecting and identifying unnatural objects like explosive devices that may be attached to a submerged structure and utilized as a means to commit criminal or terrorist activities.

**I-2. Specification and Quantity**

<b>Description for Sea Scan ARC Explorer MKII 900/1800 System with GETAC</b>		<b>Qty</b>
Towfish:		1
<b>Construction</b>	Stainless Steel & Polymer	
<b>Dimensions</b>	Diameter 9.5 cm / 3.75 in x Length 113 cm / 44.5 in	
<b>Weight</b>	22 kg / 49 lbs	
<b>Depth Rating</b>	300 m / 984ft	
Tow Cable:		1
<b>Construction</b>	Twisted Pair with Kevlar Strength Member	
<b>Length Options</b>	30 m to 500 m / 98ft to 1640ft	
<b>Bend Radius</b>	10 cm / 4 in	

<b>Strength</b>	340 kg / 750 lbs, Safe Working Load		
Topside Communications Unit:			1
<b>Construction</b>	IP68 Watertight Enclosure		
<b>Dimensions</b>	24 cm x 16.5 cm x 9 cm / 9.5 in x 6.5 in x 3.5 in		
<b>Connections</b>	Ethernet / Towfish/ Power		
<b>Power</b>	12V -30V DC, 100V -240V AC with Adapter		
Acoustic:			1
<b>Across Track Resolution</b>	0.4 cm to 1.5 cm		
<b>Horizontal Beam Angle</b>	0.4° (one-way), < 0.3° (two-way)		
<b>Vertical Beam Angle</b>	24° (two-way)		
<b>Transmit Pulse Technology</b>	Marine Sonic Technology Adaptive™ CHIRP		
<b>Transmit Pulse Bandwidth</b>	50 to 200 kHz		
<b>Transmit Pulse Length</b>	< 0.5 ms		
<b>Data Collection Speed</b>	5.3 Knots Max. (4.7 Knots @ 100 m Range)		
Frequency:			1
<b>Frequency</b>	<b>Max Range (per side)</b>	<b>AlongTrack Resolution</b>	
600 kHz	140 m / 460ft	15.2 cm	
900 kHz	80 m / 262 ft	10.0 cm	
1200 kHz	45 m / 148 ft	7.5 cm	
1800 kHz	25 m / 82 ft	5.0 cm	

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**I-3. Manufacturer Authorization (materials with services)**

**A.** If the Offeror submitting a response to this IFB and is not the original manufacturer of the equipment being provided, the Offeror must submit a Manufacturers Authorization Letter which clearly states the Offeror is authorized to provide the OEM's equipment and services required by this IFB. The Manufacturers Authorization Letter must reference "IFB 6100057239 – Sea Scan ARC Explorer MK11 900/1800 System with GETAC

**I-4. Warranty and Customer Support**

**A.** Sea Scan ARC Explorer MK11 900/1800 System has a 3- year manufacture warranty to include, free 24-hour tech support, free factory training, and free software upgrades

**I-5. Delivery/Service Location**

**Lee S Nolan (215) 418-4048**  
PSP Trevoise  
3501 Neshaminy Blvd  
Bensalem, PA 19020