



Waterside Rapid Deployment Security System (WRDSS)



AT A GLANCE

WHAT IT IS:

WRDSS is an easily transportable, scalable, automated, detect-to-engage, waterside perimeter security system. It can be quickly set-up by U.S. Navy or allied personnel to provide effective port protection of High Value Assets (HVAs) and critical infrastructure against surface and subsurface threats.

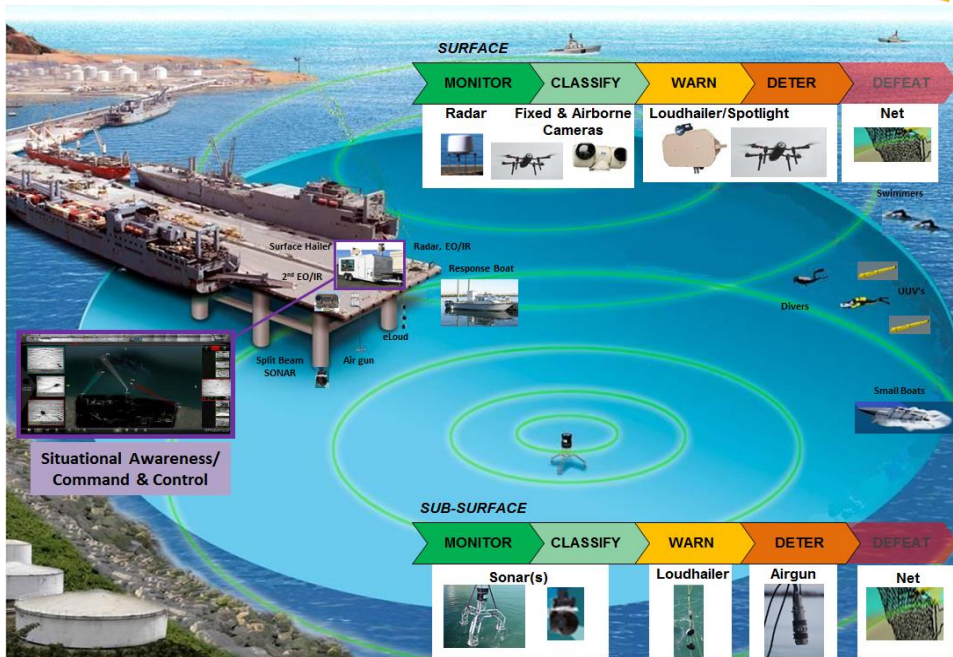
HOW IT WORKS:

Once deployed, surface and subsurface sensors automatically detect, track, verify and provide alerts of detected threats. WRDSS then provides the decision maker with recommended escalation of force responses from the time of threat determination through defeat.

WHY IT IS IMPORTANT:

WRDSS provides an effective means to protect and defend ports from a variety of challenging threats. This type of technology can be effective at preventing incidents like the attack on the USS Cole.

**Unmanned Warrior is part of exercise Joint Warrior 2016, hosted by the United Kingdom off the North-West coast of Scotland.*



Military and civilian agencies have the need to increase port security around waterside critical infrastructure. Examples include naval operations in a foreign port, security for special events, such as the Olympics, a Heads of Government meeting or an increased threat at a naval base.

WRDSS provides a scalable and modular capability that can be adjusted to fit individual operational needs. It is intended to provide adequate advanced warning of approaching threats or the presence of unauthorized vessels or personnel, both above and below the water surface.

The WRDSS detects and counters threats in the waterside environment. It can detect, track and classify all threats at a range sufficient to allow the target to be proper response in time to stop its mission prior to putting the protected asset at risk. The system allows for an escalation of force engagement, ranging from warning to determination of intent, to options for threat defeat.

Through the deployment of unmanned sensors and automated algorithm processing, the WRDSS achieves its mission by generating an integrated situational awareness picture to enable accurate command and control in response to system-generated alerts.

Research Objectives for US in Unmanned Warrior 2016:

- System performance in a challenging environment
- Assessment of updated threat processing algorithms
- Data collection for further system enhancements