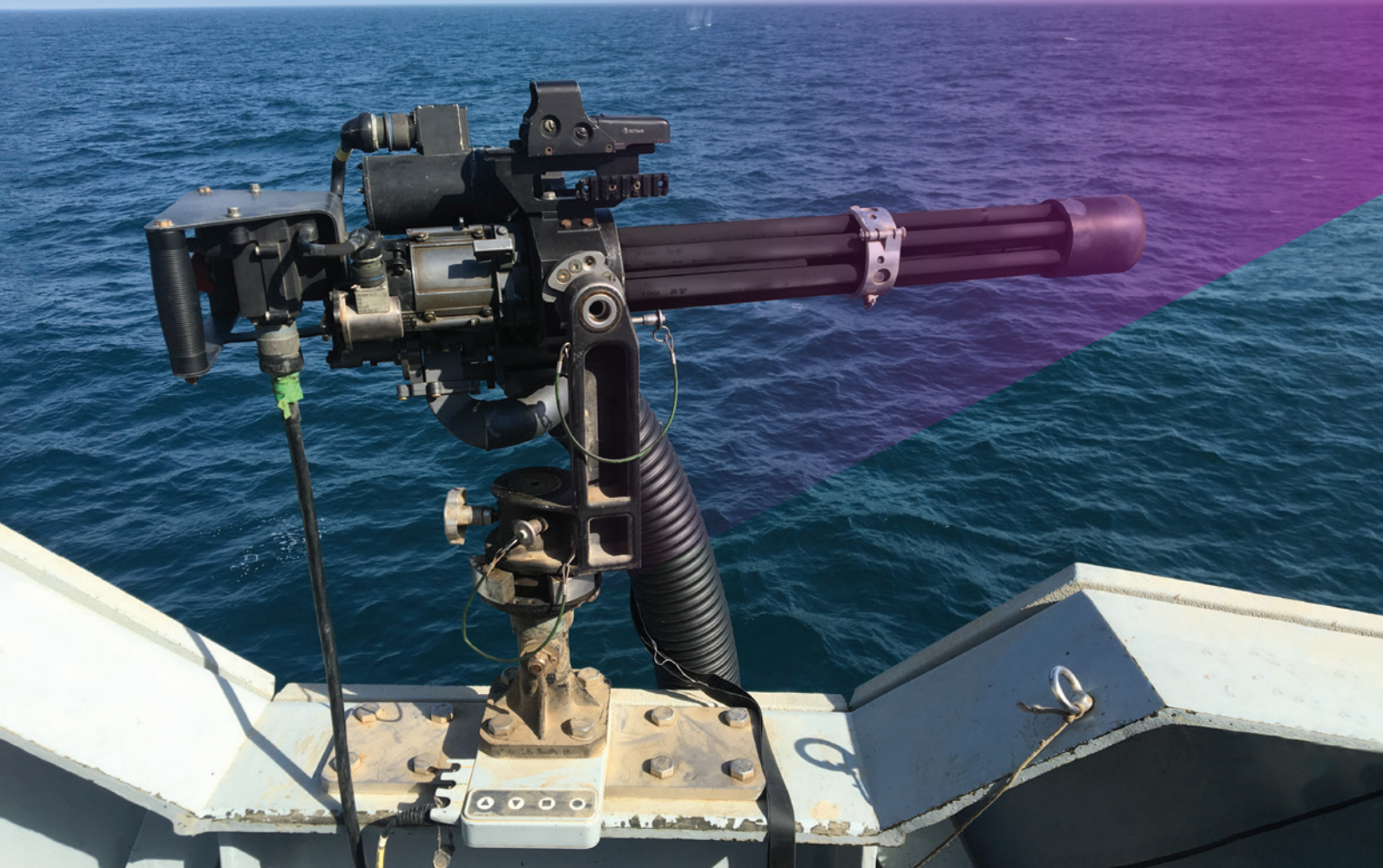


# POINTER

Close combat situational awareness  
networked gunnery direction system



POINTER revolutionises ship and CNI defence against close range asymmetric, FIAC and swarm attack

#### POINTER delivers CLARITY

- Provides Commander with clear tactical picture optimised for gunnery and networked C2 to direct engagement
- Threats, own ship, weapon disposition, dynamic firing arcs and gun bearings visualised

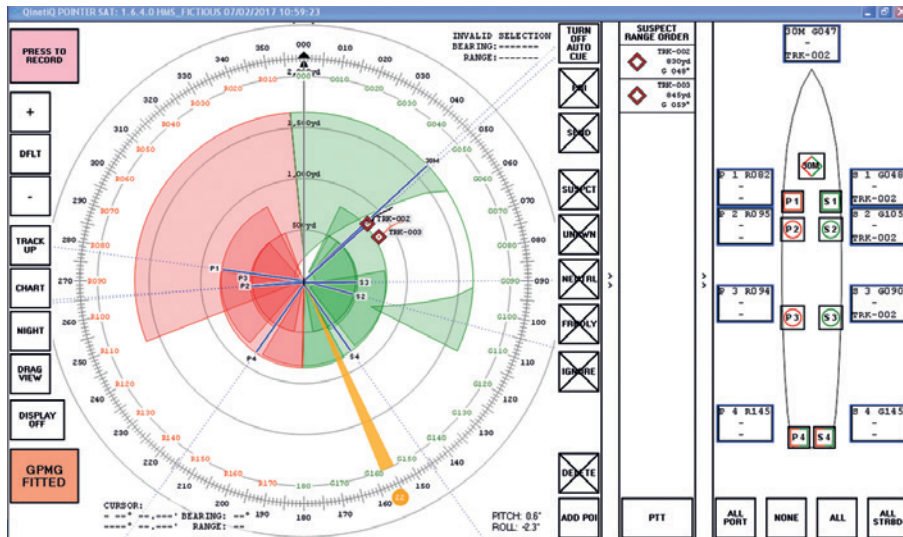
#### POINTER removes CONFUSION

- Ensures effective crew-coordination
- Networked cueing ensures all guns allocated to correct targets

#### POINTER recovers TACTICAL ADVANTAGE

- Optimise own ship manoeuvre to minimise vulnerability
- Prioritise targets correctly to stop threat leakage
- Direct fire concentration against priority threats or distribute fire against multiple threats as scenario demands
- Reduce reaction time through effective Threat Evaluation and Weapon Assignment (TEWA) and Rules of Engagement (ROE) implementation





Commander's SA Terminal



Gunner's sight

POINTER is an advanced Command Aid to optimise Command and Control of the close combat battle when countering the threats of asymmetric assault, FIAC (Fast Inshore Attack Craft) and swarm attack at close range. Designed specifically to fill the close combat capability gap, it provides a fully networked solution to deliver unprecedented situational awareness of close range surface threats, weapon disposition and effectiveness, combined with ease of target allocation to allow the vessel commander to recover the tactical advantage.

- Optimises situational awareness and provides vessel commander with a dynamic close range gunnery combat picture
- Efficient weapon allocation and reduced target ambiguity reduces reaction times and ensures implementation of Rules of Engagement
- Ensures efficient and effective use of small calibre weapons against multiple targets
- Improves awareness of weapon capabilities and limitations to maximise the effectiveness of tactical manoeuvres
- Readily integrated with a wide range of conventional vessel sensors and position systems and easily retrofitted to existing weapon systems



Weapon outfit

The POINTER system connects 'crew-served' close range weapon mounts to the Commander's display, to provide advanced communications and real-time status of weapon azimuth and dynamic limitations in both arc and range. It facilitates individual weapon direction and specific target allocation and removes scope for target ambiguity and uncontrolled engagements. Significantly, the system has been developed to minimise reaction times and take full account of the complexity of littoral operations and dense shipping environments with potential for rapid escalation from unknown to hostile classification of a contact. An action complicated by non-combatants, the need for prioritisation of effect and the implementation of visual rules of engagement are dynamic and complex scenarios.

Weapon operators benefit from the augmented reality POINTER Optical Sight, fitted alongside or in line with the existing weapon sights. This ensures the correct allocated target is identified and secured in line of sight promptly. In particular, the system has demonstrated a significant reduction in premature ammunition expenditure and the risk of weapon allocation conflicts, and has had a major influence on the Royal Navy's vessel manoeuvring doctrine for countering close range single and swarm attacks.

Readily integrated with all types of pedestal mounted, crew-served direct fire weapon systems and other situational awareness tools, POINTER is simply retrofitted to existing weapon mounts and can be operated as a standalone system or as an integrated fit with Bridge or Combat systems. No modification is required to the actual weapon.

QinetiQ is always on your side, protecting, improving and advancing your vital interests

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