

# M300 RTK – iXM Phase One P3 100MP Payload

## PROJECT INFORMATION

**Project:** Gryphon Flare Inspection

**Type of facility:** FPSO

**Industry:** Oil & Gas

**Safety:** Minimal risk to involved personnel eliminating working at height.

**Project efficiencies:** 2 Days with 2 Man Robotics Team vs 5 Days with 3 Man Rope Access Team



## SCOPE OF WORK

Full close visual and general visual inspection of the FPSO flare tip, structure and auxiliaries to identify any anomalies and areas of concern.

## SOLUTION

Robotic inspection technologies were mobilized along side a Robotics Technician to perform the inspection. The ACE-A-M300 with the iXM Phase One 100MP P3 camera payload was utilized to produce high quality data without the need to shutdown the flare (and therefore the entire FPSO) and prevent personnel working at height to perform the inspection using traditional methods.

A platform OIE was utilized as the payload operator to remove the need to mobilise a 2<sup>nd</sup> man and to lead the inspection. Quality and assurance were increased as a result.



INSPECTION FROM EVERY ANGLE



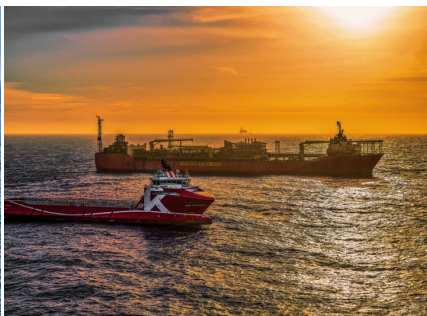
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## RESULTS AND BENEFITS

The results were outstanding due to the amazing cropping capabilities from the medium format 100mp sensor and 80mm lens.

- > In-Service Inspection no plant shutdown.
- > No expensive scaffold around structure up to flare tip.
- > Detailed high-definition imagery and video to allow condition of Flare tip and associated structure to be reviewed by multiple stakeholders.
- > Greater visibility and enhanced maintenance planning potential for the client through provision of robust evidence on the physical state of inaccessible pipework and flare tip.
- > Use of multi-skilled teams reduced the risk with drone but retaining the inspection expertise, leading to greater control over project delivery.
- > Project delivered on time with no disruption to ongoing plant activities.

Factor	Conventional Access	UAV
Personnel Required	2 + 2 Standby/ Rescue team	1 Pilot & 1 Payload Operator
Duration	10 days	1 day
Impact on operations	Full platform shutdown	In-service inspection
Risk Rating	High Risk	Low Risk
Differentiator	Some photos	Safer operationally Full 4k video/UHD Images



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