Technical Specifications – Camera and Lighting System for Mediterranean Sea Surveillance Vessel

Technical requirements for camera system:

- Multi sensor camera, day/night (visible) + thermal + spotlight (visible light).
- PTZ (pan–tilt–zoom) motorized camera -Pan: 360° Continuous. Tilt: ±90°.
- Marine grade Gyro stabilized platform.
- Water Ingress: IPX6.
- Dust & Sand Ingress, Salt mist, vibrations - IEC60945 / MIL-STD-810E.
- Ability to withstand winds of up to 100 knots.
- LED spotlights - visible light. Effective range: 200 meters.
- full integration with the on-board navigation system and displays (view/control/record) + joystick on the control panel.
- Video tracking of targets.
- Slew to Cue - integration with radar and navigation system targets.

Visible camera - minimal requirements:

- 1/2.8” CMOS sensor.
- Resolution: 1920x1080 @30fps.
- Continuous zoom lens.
- Focal length: 130 mm optical @NFOV+ digital zoom.

Thermal camera - minimal requirements:

- MWIR InSb-cooled thermal sensor.
- Resolution: 512X640.
- Continuous zoom lens.
- Focal length: 250 mm optical @NFOV+ digital zoom.

Technical requirements for flood lighting around the vessel:

- Area coverage: 360°
- LED lighting - 50,000 hours life time
- Light temperature: 5000K-6000K
- Illuminance: Min 800 lux @10 meters (from vessels fenders)
- Water Ingress - IP67
- Two output levels (Med / High)

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