



Marine & Offshore CCTV System Solutions

Al-Qaqnoos Engineering provides specialized Marine and Offshore CCTV Surveillance Solutions designed to enhance operational safety, situational awareness, and incident prevention in demanding environments. Supported by our technology partner Weite Technologies, we integrate explosion-proof, corrosion-resistant, and high-definition monitoring systems suitable for vessels, offshore platforms, cranes, and hazardous industrial zones.

1. System Overview

Our Marine & Offshore CCTV Systems deliver continuous visual monitoring of critical deck operations, machinery spaces, cranes, winches, cargo handling, and hazardous areas. The system is engineered for **safe operation in harsh offshore conditions**, featuring:

- **Explosion-proof HD cameras** (spherical & fixed types)
- **High-definition operator monitors** for bridge, CCR, and crane cabin views
- **Industrial-grade NVR / DVR recording units** for event logging
- **Night vision & low-light operation**
- **Wide-temperature & corrosion-resistant housings** suitable for marine environment
- **Integration with crane monitoring systems**, deck operations, and safety alarms



2. Key Features & Technologies

Explosion-Proof Camera Systems

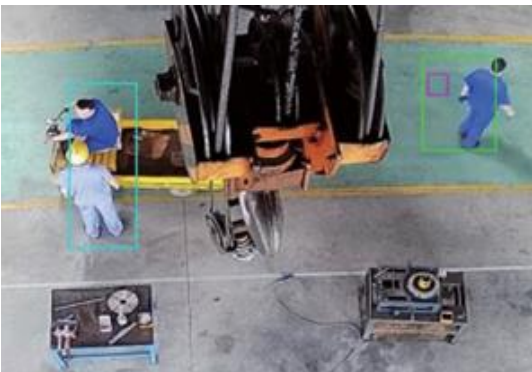
Suitable for **Zone 1 & Zone 2 hazardous areas**, these cameras provide safe monitoring around cranes, pump rooms, drilling modules, and machinery spaces.

Features include:

- **Stainless steel ATEX-certified housings**
- **High-speed PTZ dome or fixed-view options**
- **360° panoramic coverage** for crane and deck operations

High-Definition Monitoring

- **Real-time video feed to the bridge, ECR, CCR, crane cabin, or control rooms**
- **Supports multi-screen display and remote viewing**
- **Sharp HD imaging for safe load handling, deck visibility, and emergency response**





Industrial-Grade Recording System (NVR/DVR)

- Continuous recording with event playback
- Supports long-term storage for safety investigations
- Can be linked to alarm triggers (motion, smoke, overload events)

Integrated Monitoring for Cranes & Deck Operations

The CCTV system enhances visibility for:

- Offshore crane lifting operations
- Winch and hoisting systems
- Marine loading arms
- Pipe rack monitoring
- Deck maneuvering operations

3. Applications

Our CCTV solutions are suitable for:

- Offshore Platforms & Rigs
- Tanker Vessels, Bulk Carriers & OSVs
- Crane & Winch Monitoring Systems
- Engine Room and Pump Room Surveillance
- Hazardous Area Operations (ATEX zones)
- Cargo & Deck Operations

4. Benefits for Vessel Owners & Offshore

Operators

- Enhanced safety and operational visibility
- Reduced risk of accidents and collisions during lifting and deck operations
- Compliance with offshore safety standards
- Real-time supervision from remote control rooms
- Improved efficiency in cargo handling and crane operation
- Reliable monitoring in harsh weather and low-visibility environments

5. Why Choose Al-Qaqnoos CCTV Solutions?

- End-to-end engineering, installation, and commissioning
- Marine-grade components supported by **Weite Technologies' proven offshore experience**
- Integration with your existing alarm, AMS, and crane safety systems
- 24/7 technical support and spare parts availability
- Custom-built solutions for each vessel or offshore asset

