

## x MRX.camera, marine, PTZ, 2MP

Sales ID: 2503-2201

Rugged IP camera with 2MP and 20x optical zoom

**x AISI 316L Electro Polished Stainless Steel**

**x Resolution 2MP (1920x1080); 30fps**

**x 20x optical zoom**

**x PTZ: 360°; 180°**

**x IP66 protected**

**x Build-in Heater & Fan**



The rugged MRX.camera digital PTZ dome camera, specially developed for offshore the MRX.crane system. Thanks to its weatherproof and vibration-resistant housing, it is ideal for mounting on construction machinery and in harsh environments.

MRX.camera offers high-resolution image quality with optical zoom, enabling precise visual monitoring even from a great distance. Power is conveniently supplied via Power-over-Ethernet (PoE), which enables easy integration into existing networks and reduces installation costs. If heater is used, a separate 24VDC power line is used.

### Introduction

MRX.CraneVideoSystem is a hybrid transmission system for all types of construction machinery. It works with radio and cable based transmission and technologies can be mixed. Originally designed to transmit video streams from analog and digital cameras into the crane operator's cab, it is suitable for the bidirectional transmission of many different data and signals.

The system is based on AZG.mesh technology, which enables a very robust and encrypted network. AZG.mesh makes it possible to connect several nodes in a network to enable different use cases. AZG.mesh allows data to be transmitted via several stations (repeaters), creating redundancies and overcoming possible radio shadows, where radio is used.

The powerful nodes ensure that the video data is transmitted and processed with very low latency. This means that the crane operator always has a

live image in the driver's cab.

The individual encryption of MRX.CraneVideoSystem ensures that the systems on different cranes working on the same construction site can neither interfere with nor influence each other. This prevents camera images from being incorrectly transmitted to the wrong driver's cab.

When radio is used, the transmission is carried out using modern digital technology in accordance with IEEE 802.11s with 2x2 MIMO antenna technology. This enables a long range with a large transmission bandwidth.

A wide range of accessories, including digital and rugged cameras round off the system.

## Technical Specifications

### General

- Image sensor: 1/2.8" CMOS
- FullHD resolution: 1920x1080
- Automatic day/night shift

### Lens

- Focus: 4.7-94mm
  - ↪ 20x optical zoom
  - ↪ 16x digital zoom
  - ↪ Opening angle:  
H: 55.5-3.0°
- Illumination
  - ↪ Color: min. 0.2lux
  - ↪ B/W: min. 0.01lux

### Video stream

- Compression
  - ↪ H.265 / H.264 / MJPEG
  - ↪ max. 30 fps@FullHD
  - ↪ Multiple streams can be accessed in parallel
- Properties
  - ↪ Auto focus
  - ↪ Image stabilisation
  - ↪ Automatic day/night shift
  - ↪ Control: ONVIF
- Smart features
  - ↪ Video motion detection

### Housing

- Material
  - ↪ AISI 316L stainless steel
- Dome
  - ↪ AR coated polycarbonate
- Connections
  - ↪ 1x 10/100/1000BaseT
  - ↪ RJ45
- Mechanics
  - ↪ 185x160x185mm (WxHxD)
  - ↪ Weight: 4.3kg
  - ↪ Protection class: IP66/67

### Power consumption

- Power
  - ↪ PoE, 12W
  - ↪ Heater: 12-24VDC, 10W

### PTZ

- PTZ operation
  - ↪ PAN: 360° endless
  - ↪ TILT: -10 .. +190°
  - ↪ Speed (P/T): max. 380°/s

### Environment

- Ambient conditions
  - ↪ outdoor
  - ↪ Operation: -30..+55°C
  - ↪ Storage: 0 .. +40 °C
  - ↪ Rel. humidity: 20-90%, non-cond.
  - ↪ internal heater & fan

### Certifications

- ↪ CE, eMark regulations
- ↪ FCC
- ↪ MIL-STD-810G shock/vibration
- ↪ RoHS, REACH

