



SURVEILLANCE AND SECURITY

Coastal | Ground | Off-Shore | Vehicular

MAKA

PAN-TILT-ZOOM STABILIZED OPTRONIC SYSTEM

MAKA is an **advanced multi-sensor system** featuring a **Day/Night Camera** and a **Thermal Camera** mounted on a **precision pan-tilt** unit with less than **0.05 degrees deviation**. This advanced system allows observation in **total darkness** and **all weather conditions**, including fog, rain, and snow. Equipped with **high-resolution cameras** and substantial **optical zoom**, MAKAs operate seamlessly across diverse scenarios. The **movable pan-tilt platform** enables the cameras to turn in all directions, both in azimuth and elevation, and can be controlled remotely or from an existing command and control center. It supports variable

speeds, **panoramic observation**, and **tour mode**, with functions triggered locally or remotely, and can be programmed to function automatically. MAKAs Day/Night and Thermal cameras feature **continuous optical and digital zoom**, maintaining **crisp, stable imagery** even in windy conditions through proven stabilization methods. Designed for robustness and easy integration, MAKAs transmit all data via a **single Ethernet connection**, monitored from control centers, boosting **situational awareness** and providing a **strategic advantage**.

KEY STRENGTHS

- Simultaneous preview of day/night camera and thermal
- Continuous zoom on both payloads
- Radar connectivity (Slew to Cue)
- Radar tracking possibility
- Rigid system design
- Control and picture streaming via TCP/IP
- Temperature range of the whole system: -32 to +55°C
- Maximum humidity of the whole system: 95%
- IP rating of the whole system: IP67

SYSTEM CONFIGURATION



Thermal cameras (MWIR, LWIR)

Thermal imaging cameras are ideal for long-range surveillance with advanced technology, long-life coolers, and high-sensitivity continuous zoom lenses.



Day/Night camera

Based on CMOS megapixel camera ideal for day/night surveillance in military and security applications, providing high-performance images under extreme conditions with IP67 and MIL-810 standards.



Pan-Tilt assembly

Compact, efficient, and powerful motion control driver that handles up to 35kg payloads, ideal for limited spaces and compatible with various applications due to multiple slip-ring options.



External video processing unit

The VPU is a streamlined system integrating all payloads and the Pan-Tilt unit, providing a single Ethernet connection for video streams and system control.

