

PAN TILT PLATFORM



KONGSBERG



Pan Tilt Platform

The Pan Tilt Platform (PTP) holding the highly capable Pan Tilt Zoom day camera, PTIR infrared camera, Laser Range Finder and the mandatory signal light gun, has gyros in all three axis integrated which will be used for servo stabilization.

The Pan Tilt Platform will have freedom to perform multiple rotations in azimuth. In elevation it is mechanically adjustable from -20° to $+80^{\circ}$. Combined with the PTZ field of view which can be continuously zoomed out to 95° horizontally and 71° vertically, the operator will cover the whole spherical angle around the platform including the "cone of silence".

PAN TILT PLATFORM

- VIS 95 HD Camera
- Thermal Camera
- Laser Range Finder
- Signal Light Gun
- Digital Zoom Capability
- Automatic Tracking
- The KONGSBERG PTP is fully compliant to ED-240A



Pan Tilt Zoom Camera

The Pan Tilt Platform containing the Pan Tilt Zoom (PTZ) camera is able to turn very fast in the horizontal plane. The PTP is easy to operate using the joystick and only a minimum of training is required to be a skilled operator. Following an aircraft doing a low pass over the runway at 220 knots with the tower 90 meters away from the runway center line is an easy task for a skilled operator.



Pan Tilt Infra Red Camera

The Pan Tilt IR (PTIR) camera is a high performance uncooled IR camera which is able to depict thermal contrasts in the scene and is well suited for detecting animals, people, vehicles etc. even in darkness.

The PTIR is able to detect persons and large animals at ranges exceeding 3 kilometers, verified by the product manufacturer with STANAG 4347 and 4349.



Laser Range Finder

The Laser Range Finder (LRF) is an eye safe Class1. The wavelength is outside visible range for the human eye. The LRF is an integrated unit in the PTP and optically aligned with the cameras. The LRF provides the operator with the ability to accurately measure distances to objects in combination with video tracking, and for meteorological visibility evaluation.

Signal Light Gun

A Signal Light Gun (SLG) is integrated in the PTP and optically aligned with the cameras. The operator has to direct the cameras against the object and activate the Signaling Lamp.



The SLG is designed to comply with ICAO "Signaling Lamp" and is compliant to ICAO Annex 14 regulation. The SLG has red, green and white signals, and they can be switched on and off in any sequence, used for flashing, steady light and signaling Morse-code. The operator HMI provides pre-programmed signal patterns and text-to-morse functionality.

