



Belgian Advanced Technology Systems

## Uncooled medium-range surveillance camera

# MRU-EO 100



This uncooled medium-range surveillance camera combines two advanced video channels on an integrated ruggedized 360° pan-tilt positioner to deliver 24/7 cover security. It is a high resolution dual-sensor, both for day & night, providing real-time awareness and reconnaissance for accurate acquisition.

The MRU-EO 100 allows medium range observation and detection using a high performance uncooled thermal imaging camera and a color CCD camera. The system will provide reliable detection in total darkness, dust, smoke and varying light conditions.

A precise Pan & Tilt motor allows extreme slow to fast proportional motion for tracking at low speed and high speed.

In addition, all systems are available with optional laser range finder or GPS module.

The MRU-EO 100 is only one example - BATS can provide a variety of other systems, cooled and uncooled, with several lens options, custom-tailored to your needs.

### Features

- Detection of human targets: 3.000m
- Recognition of human target: 1.000m
- Detection of vehicle target: 6.800m
- Recognition of vehicle target: 2.400m

### Applications

- Border surveillance and protection
- Coastal surveillance and protection
- Critical infrastructure protection

### Specifications

#### Thermal imager

Imager type:	uncooled
Spectral band:	7.5 - 14 $\mu$ m
Video type:	30Hz (PAL/NTSC)
Pixel size/resolution:	17 $\mu$ / 640x512
NETD:	<50° mK
FOV:	6.2° (narrow) 42.2° (wide)
Focal length:	15-100mm

#### Day Camera

Imager type:	1/4" CCD
Focal length:	3.3-119mm (36x)
Resolution:	768x494 (NTSC) 752x582 (PAL)

#### General

Input power:	24VDC +/- 1%
Power consumption:	max. 350W
Environment:	IP66
Operating temp:	-40°C to +60°C
Interface:	RS-422/RS-485 serial
Weight:	20kg

#### Pan/Tilt unit

Pan/Tilt speed:	0-50° per second
Pan range:	360° continuous
Tilt range:	-90° to +90°
Pan/Tilt resolution:	+/- 1.5mRad