

Bordercam-225 Enhanced

UNCOOLED MID-RANGE ELECTRO-OPTICAL CAMERA SYSTEM

The Bordercam-225 Enhanced is a market-leading mid-range dual-sensor electro-optical surveillance system. This unique system combines an advanced high-resolution uncooled continuous zoom thermal camera with a mid-range daylight camera on an accurate pan-tilt unit.

The Bordercam-225 Enhanced offers best in its class detection and recognition without the required regular maintenance, ensuring low cost of ownership. Typical applications for this system include fixed installation, vehicle integration or man portable operation for forward observation, surveying borders, airports, refineries, power plants, and other sensitive installations.

This camera is integrated with ADAMS Sensor Management System. The Ethernet interface makes it easy to integrate into third party systems as well.

BENEFITS

- ✔ **Dual Continuous Zoom Channels (Thermal & Color)**
Independent continuous zoom thermal and color cameras provide maximum situational awareness, user friendliness, and 24/7 threat assessment.
- ✔ **Mid-Range Thermal Imagers**
Uncooled thermal cameras provide mid-range performance without routine preventive maintenance and without the noise of the cooler.
- ✔ **Ruggedized for Harsh Environments**
A rugged design, certified to IP66, and protected against dusty, and other harsh or industrial environments.
- ✔ **Easy Integration**
TCP/IP interface, proprietary protocol

SPECIFICATION

- ✔ **Thermal Imager:**
640 x 512 Uncooled Sensor
- ✔ **Visible Imager**
Sony color CMOS camera
- ✔ **Weight of the camera unit: (daylight camera + thermal camera + PTU)**
22 kg (without tower mounting console and other accessories)
- ✔ **Visible Optic Features:**
Infrared Cut Filter Removal
- ✔ **Thermal Optics:**
LWIR
Continuous zoom
- ✔ **Visible Optics:**
Up to 30x Continuous Optical Zoom
- ✔ **Video Streaming (TCP/IP):**
Multiple independent video streams, RTP, RTSP, UDP output format
Encoding in H.264, H265 or MJPEG
- ✔ **Connection and Control**
TCP/IP: 1000 Mbps Ethernet

SPECIFICATIONS

UNCOOLED THERMAL CAMERA SPECIFICATION

Resolution	640x512	
Field of view	17.46° - 1.96°	
Refresh rate	30-60 FPS, 9 FPS (NLR)	
Wavelength	LWIR	
Operation	Motorized continuous focus and zoom	
Target size	1.8x0.6m Human	2.3x2.3m NATO/vehicle
Detection range	11200m	21600m
Recognition range	5600m	7200m
Identification range	2800m	3600m

FHD DAYLIGHT CAMERA SPECIFICATION

Resolution	1920x1080	
Refresh rate	1..60 FPS	
Signal to noise	>50dB	
Optical zoom	30x	
Horizontal angle of view	63.7° - 2.3°	
Operation	12x digital zoom, AE, AF AWB, B&W, IR	
Target size	1.8x0.6m Human	2.3x2.3m NATO/vehicle
Identification range	6600m	8500m

LRF SPECIFICATION (OPTIONAL)

Maximum range	8000m
Accuracy (80% range)	1m
Repetition rate (range)	1Hz (100%), 5Hz (80%), 10Hz (70%)
Wavelength	1550nm
Divergence	0.5 mrad
Multiple detection	max 5 target
Eye safety	Class 1
Pointer (optional)	830nm

PAN AND TILT UNIT

Power supply	24-28V DC
Power consumption (static/max)	15W/80W
Horizontal movement	infinite, 360°
Vertical movement	from -90° to +90°
Positioning accuracy	<1 mrad
Environmental specification	IP66
Interface	Ethernet
Temperature range	from -5°C to +50°C

Optional use of teleconverter can affect the DRI and FOI values

DRI ranges have been determined without taking into account the atmospheric conditions.
The actual picture on this brochure is only illustration.

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