



MULTI-SENSOR ELECTRO-OPTICAL SYSTEM
OPTICAL MONITORING AND
SURVEILLANCE SYSTEM
EPX-3300C

EPX-3300C MULTI-SENSOR ELECTRO-OPTICAL SYSTEM

EPX-3300C is a multi-sensor electro-optical system designed for surveillance and reconnaissance applications. EPX-3300C comprises of several different and complementary sensors that simultaneously observe interest zone and perform acquisition of objects during day, night and aggravated weather conditions.

EPX-3300C task is to collect data and perform detection, recognition, identification and optional geo-location and tracking of objects of interest. It also has color low light camera, MWIR thermal imager, laser rangefinder, GPS receiver and digital magnetic compass.

EPX-3300C is installed either on telescopic mast that enables sensor positioning on required height above the vehicle, or at fixed tower. For command and control of EPX-3300C system operator console is used with implemented software, which enables control from the vehicle or remote or fixed location.

KEY FEATURES

- Surveillance with several different and complementary sensors
- Modular multi-sensor electro-optical system
- High resolution and high sensitivity color low light camera
- High resolution and high sensitivity MWIR thermal imager
- Laser rangefinder
- GPS receiver
- Digital magnetic compass
- Sensor positioner with continuous rotation in azimuth plane
- Gyro-stabilization
- Pass-through for signals and power in sensor positioned

Control and Monitoring:

Remotely controlled and remotely or locally monitored. Video streams from each imager can be easily monitored



OPERATIONAL AND TECHNICAL SPECIFICATIONS

	MWIR THERMAL IMAGER	COLOR LOW LIGHT IMAGER	
Type:	InSb	CMOS	
Resolution:	640 x 512 pixels	1974 x 1100 pixels	
Pixel pitch:	15 m	5 m	
Spectral Range:	3.0 to 5.0 m	Visible range	
NETD:	< 25 mK	-	
Minimum illumination:	-	0.005 lx (F1.4, 30 fps, 50IRE, +72dB, color)	
Frame rate:	30 Hz	30 Hz	
Lens zoom:	22 x	10 x	
Focal length:	15 mm – 330 mm	16 mm – 160 mm	
Field of view:	35.4° - 1.67°	33.0° - 3.45°	
LASER RANGEFINDER			
Eye-safe	Class 1		
Wavelength	1.54 m		
Ranges up to	10km (for 2.3 x 2.3m target, 30% reflectivity and 23.5km visibility)		
Accuracy	±5m		
GPS RECEIVER			
	Supported both GPS and GLONASS GNSS signals		
DIGITAL MAGNETIC COMPASS			
	North direction		
PAN TILT PLATFORM			
Azimuth	n x 360°		
Elevation	-25° - +60°		
Azimuth plane motion speed	0.0057°/sec to 100°/sec		
Elevation plane motion speed	0.0057°/sec to 100°/sec		
Gyrostabilization	Yes		
OPERATING CONSOLE (OPTIONAL)			
Displays	1 - 3 depending on choice (ruggedized tablet is default)		
Resolution	Up to full HD (1920 x 1080)		
Communication	Ethernet 100/1000BaseT		
GENERAL			
Mass	41kg		
Dimensions	698mm x 473mm x 481mm		
Power supply	24 VDC or 230VAC		
Power consumption	100W @ 24VDC		
Working temperature	-25°C do 55°C		
DRI RANGE (KM)*			
	Detection	Recognition	Identification
Human	13.9* / 9.1**	3.5* / 2.5**	1.8* / 1.7**
Vehicle	33.7* / 13.9**	8.4* / 5.3**	1.8* / 1.7**

KEY BENEFITS AND ADDITIONAL APPLICATIONS

Cooled mid wavelength infrared imager with 330mm optics has superb range performance.

Provides an effective day and night surveillance capability.

Thermal imager in EPX-3300C uses cooled mid wavelength infrared technology that offers better range performance in presence of maritime high humidity conditions.

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(*) Geometrical calculation for system IFOV (pixel size / maximum focal length). (**) Calculated with NVThermIP model, according to STANAG 4347: 50% probability at 0.2/km atmospheric attenuation factor and 2K temperature difference. Actual range may vary depending on environmental conditions, camera set-up, type of display and user experience.

For more information on our mission critical intelligence solutions, please contact us at: support@ebipax.com