VIGISCAN

Panoramic Infrared Vision System

INTRODUCTION

VIGISCAN infrared vision system comprises a sensor head rotating continuously at 1 round/sec for 360° azimuth coverage. The system incorporates a number of advanced features in order to achieve compact equipment size and high image quality.

The ultra wide panoramic field of view (360° in azimuth) and continuous monitoring ensure that no event is missed over extremely large areas in total darkness, fog, smoke.

The user friendly software provides great flexibility in accessing and displaying various data for fast display of anomalies in the field of view. Powerful algorithm performs detection of targets in complex backgrounds. Detection and tracking of intruders is immediate.

Operating in the familiar Windows environment, button and icon tool selection with point and click operation ensures clear display of the panoramic image as well as zoom on area of interest.

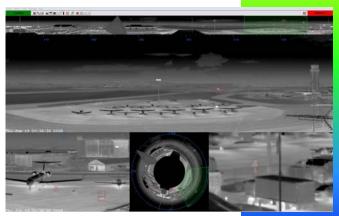*VIGISCAN rotating sensor and platform*

ADVANTAGES

- Extremely wide area coverage : 360° in azimuth
- High image quality
- Fast image rate : one 360° image every second
- Choice of elevation FOV: 5°, 10° or 20°
- Adjustable tilt
- Remote control through PC
- Passive operation (intrusive lighting not required)
- Automatic target detection and tracking

APPLICATION

- Perimeter security
- Airport traffic monitoring
- Search and rescue
- Intrusion detection
- Day and night panoramic scrutiny
- Fight against smuggling and drug trafficking
- Coastal and border passive surveillance
- Night time navigation
- Early detection of forest fire
- Oil/pollutant detection on water

Infrared Image Display

Detection, tracking and zoom on intrusion

TECHNICAL

SENSOR AND PLATFORM

	VIGISCAN 20	VIGISCAN 10	VIGISCAN 05
Vertical FOV :	20°	10°	5°
Horizontal FOV :	360°	360°	360°
IFOV :	1.2 mrad (V)x1.1 mrad (H)	0.6 mrad (V)x0.55 mrad (H)	0.3 mrad (V)x0.27 mrad (H)
Scanning speed :	360°/sec (1 rps)	360°/sec (1 rps)	360°/sec (1 rps)
Detector type :	LWIR HgCdTe 288 x 4 TDI FPA	LWIR HgCdTe 288 x 4 TDI FPA	LWIR HgCdTe 288 x 4 TDI FPA
Cooling :	Stirling microcooler	Stirling microcooler	Stirling microcooler
Image resolution :	10 000 (H) x 288 (V)	20 000 (H) x 288 (V)	40 000 (H) x 288 (V)
Video output :	TCP/IP	TCP/IP	TCP/IP
Control interface :	TCP/IP	TCP/IP	TCP/IP
Dimensions(Dia x H) :	300 mm x 545 mm	300 mm x 545 mm	300 mm x 545 mm
Weight :	28 kg	29 kg	30 kg
Operating temperature :	-40°C to +71°C	-40°C to +71°C	-40°C to +71°C
Protection standard :	IP 66	IP 66	IP 66
Power supply :	24V DC / 5 Amps	24V DC / 5 Amps	24V DC / 5 Amps
Detection range for			
human :	Up to 1 km	Up to 2 km	Up to 3 km
car :	Up to 1.5 km	Up to 3 km	Up to 5 km
ship :	Up to 6 km	Up to 10 km	Up to 15 km

CONTROL AND DISPLAY SOFTWARE

Operating system:	PC Windows XP Professional
Software functions:	Remote sensor control and set-up
	Panoramic display
	Zoom (2x, 4x, 8x) on area of interest
	Automatic contrast/brightness control
	Colour palette or white hot/black cold polarity or reverse
	Detection and tracking on targets
	Storage of image sequences
	Image playback

Above information is subject to changes without notice