



# 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.

## ADVANTAGES

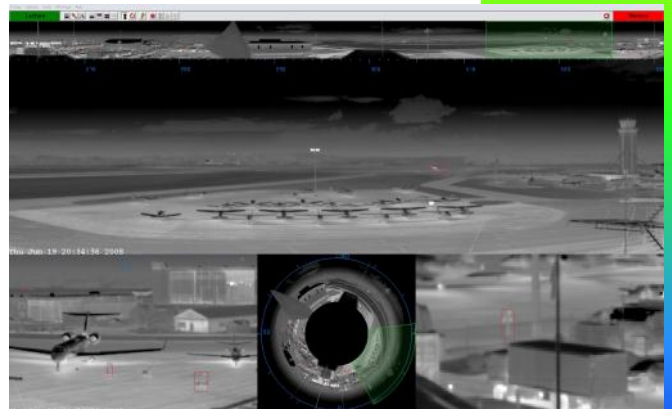
- Extremely wide area coverage : 360° in azimuth
- High image quality
- Fast image rate : one 360° image every second
- Choice of elevation FOV: 5°, 10° or 20°
- Adjustable tilt
- Remote control through PC
- Passive operation (intrusive lighting not required)
- Automatic target detection and tracking

## APPLICATION

- Perimeter security
- Airport / seaport surveillance
- Search and rescue
- Intrusion detection
- Day and night panoramic scrutiny
- Fight against smuggling and drug trafficking
- Coastal and border passive surveillance
- Night time navigation



VIGISCAN rotating sensor and platform






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°                     |
| I FOV :   | 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)         | 180°/sec (0.5 rps)       |
| Detector type :   | LWIR HgCdTe 288x4 FPA   | LWIR HgCdTe 288x4 FPA    | LWIR HgCdTe 288 x 4 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 and control:   | 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 :  | 26 kg                   | 26 kg                    | 26 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  |
| Software functions: | real time panoramic display (strip & annular),<br>multiple intrusion detection and tracking,<br>single/multiple targets designation and tracking,<br>radar view for distance estimation<br>configuration of alarm parameters (alarm zones, alarm threshold),<br>remote sensor control and set-up,<br>multiple zoom windows on areas of interest,<br>colour palettes or white hot/black cold polarity or reverse,<br>storage of video sequences,<br>video sequence playback, available in .avi,<br>multiple screen capabilities, touch screen capabilities,<br>MJPEG compression and video transmission through IP |

*Above information is subject to changes without notice*



**SYSTEMES INFRAROUGES**

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