

INTEGRATED SURVEILLANCE SOLUTION

- ▷ Border and coastal surveillance
- ▷ Long range day and night applications
- ▷ Intruder recognition, identification, localisation and tracking



INTEGRATED SURVEILLANCE SOLUTION

MARGOT 8000

DEFENCE
HOMELAND



SH1

SH2

SH3

SH4

WFOV

MFOV

NFOV

EM

Reticle

Grayscale

Freeze

Zoom +

Zoom -

Settings

Picture

121448ZDEC11

NFOV (1.2, 0.9)

SH1

CCD

IR

Platform

Bearing 47.86

Sight 0.11

Target

Bearing 32.58

Sight 0.98

Distance 1240 m

Latitude 48.798742

Longitude 1.996088

Altitude 172.40 m

Main settings

Source CCD

H FOV 1.20

V FOV 0.90

Iris A

Localization

Latitude 48.790112

Longitude 1.976343

Altitude 186.00 m

AZ (°)=071.785445

EL (°)=+00.754640

SUB-SYSTEM : MARGOT

Mode

EQUIPMENTS

CCD

LRF

IR

PTM

ACTIONS

Point

Scan

Slide

Road

Panoramic

File

Carto

Stabilization



MARGOT 8000

Integrated Surveillance Solution

MAIN FEATURES

Margot 8000 is a very long range surveillance system.

- Various operating modes:
 - Standalone system (one Sensor Head connected to one Operator Work Station),
 - Distributed surveillance network (several Sensor Heads controllable from a few remote Work Stations).
- Two kinds of observation modes
 - Programmable scan modes : intruder detection
 - Direct control of the line of sight : intruder recognition, identification and tracking
- Continuous zoom lens on IR and TV sensors
- Application Programming Interface (API) for complete control from third party control station (C2)

OPTIONS

- Other continuous zoom lens for the day TV
- Laser Range Finder for target geo location
- Image electronic stabilization
- Automatic Video Motion Detection
- Automatic Video Tracking on selected target
- Complete control MMI software when not integrated to a third party C2



TECHNICAL CHARACTERISTICS

Pan and Tilt unit

- 2-axis gyro stabilization
- Azimuth: $n \times 360^\circ$
- Elevation: $\pm 45^\circ$
- Angular velocity:
 - Azimuth: up to 1 rad/s
 - Elevation: up to 1 rad/s

Suzie MWIR thermal imager (3-5 μm)

- Resolution 640 x 512 pixels
- Continuous zoom 20° to 1.5°
- Optical booster : 1°
- e-zoom: 0.6° (windowing + μscan)

Day TV camera

- Colour CCD
- Optics: continuous zoom lens (23x)
 - WFOV: $42^\circ \times 31.5^\circ$
 - NFOV: $1.8^\circ \times 1.35^\circ$

Laser Range Finder (option)

- Wavelength: 1.54 μm (eye safe class 1)
- Range: up to 20 km
- Range accuracy: $\pm 5 \text{ m}$

