

*Vision of the future*  
**OPTRONITALIA**

**Unattended mobile systems**  
**Vehicular systems**  
**Infrared cameras**

*U.G.S Deimos "B"*

**OPTRONITALIA**

GROSSETO Via Birmania n. 109 ITALIA Tel.+39 0564 451290  
Fax.+39 0564 469023 [www.optronitalia.it](http://www.optronitalia.it) [info@optronitalia.it](mailto:info@optronitalia.it)



# OPTRONITALIA

## UGS DEIMOS B

It is a territorial video- control and monitoring system in mobile re-locatable configuration (UGS Unattended Ground System) for day-night vision use.

This system has the peculiarity to be electrically autonomous and independent and to have the wireless or the satellite connection to the remote vision control points.

UGS Deimos -B is a remote sensing and weather data satellite ,which can be positioned on the territory , in relation to the possibility of radio link , within an area of about 20 km radius, with at central post the mobile vision-control R.V.C. command ,or one fixed Central Operational Control Room .

U.G.S. Deimos-B consists of a structural water proof and insulated box ,made of carbon/ Kevlar, aluminium and stainless steel AISI 316.



Its positioning on any type of terrain is provided by three aluminium made levelling feet fixed to the structural -box.

Their adjustable inclination allows the implementation plan of the system ,even on very hilly terrains.

The time required for assembly and operational starting time of the entire system is about 15 minutes.

On top of the retractable folding mast it is placed the video imaging body unit Ares, that through the integration of one video-camera in the visible spectrum and one video-camera in thermal spectrum LWIR / MWIR, provides the high-resolution images day / night vision under all weather conditions.

(ARES1-2-LWIR SHORT RANGE, /ARES3 MWIR MEDIUM RANGE, /ARES4 MWIR-LONG RANGE)

The field of vision is 360 ° continuous cycle thanks to a precise and reliable pointing system remotely controlled , through friendly support use of a joystick.

The very easily and friendly use software "Panoptes", provides access to the full potentialities of the system and one geo-referenced GIS mapping indicates the framed areas in real time and the coordinates of targets .

It is possible to create a network of U.G.S. Deimos "B" and to integrate vehicular systems V.V.S and maritime systems M.P.S. into an exclusive high tech network , which is an unique and unsurpassed mean of territorial surveillance.



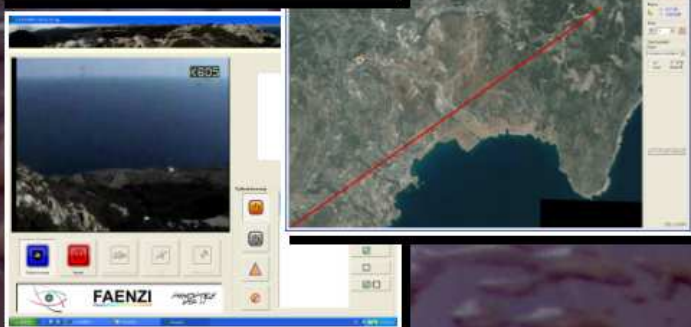
## UGS Deimos B

### GENERAL DATA

<b>DIM.:</b>	Storage 80x80x80 cm. Operating 230x230x300
<b>WEIGHT:</b>	150 Kg. 8 Divided parts
<b>STRUCTURE:</b>	Carbon/Kevlar Alum. Steel AISI inox 316
<b>BATTERY:</b>	110Ah 12V.
<b>PHOTOVOLTAIC:</b>	2 X 80 W.12V.
<b>BATTERY CHARGER:</b>	220 V.
<b>CAMERA:</b>	ARES1 (Config.base)
<b>POINTING SYSTEM:</b>	Pan 360° Continue Speed 0/120° sec. Resol. 0.01° Tilt +60°-60°
<b>MOTORS:</b>	Step
<b>RADIO LINK:</b>	IEEE 802.11a Freq. 5.47/5.725 GHZ Channels 11 Powers 26 dBm max. Sens. -94 dBm 54 Mbps
<b>ANTENNA:</b>	Dish 25cm.
<b>VIDEO ENCODER:</b>	MPEG4 Datarate 0.5..6 Mbps

### OPTIONALS

ARES 2 (THERMAL AND COLOR CAMERA)  
ARES 3 (THERMAL AND COLOR CAMERA)  
ARES 4 (THERMAL AND COLOR CAMERA)  
LASER RANGEFINDER R/1 4500 MT. (ARES 1-2)  
LASER RANGEFINDER R/2 20000 MT. (ARES 3-4)  
GPS MODULE (ARES 1-2-3-4)  
OPTICAL RADAR (O.R.)(ARES 1-2-3-4)  
MODULE PROCESSOR BOARD (O.R.+SAT)  
SOLAR POWER + FUEL CELL  
PHOTOVOLTAIC PANELS 250W.  
ADDITIONAL BATTERY 110 Ah.  
MODULE SAT.  
METEO  
MICROPHONE+MEGAPHONE



# TARGET DETECTION

