

SPECIAL  
PRODUCTION



OPTIX

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**GOLIATH** is a long-range uncooled thermal imaging camera suitable for integration into security and observation systems, enabling twenty-four hour surveillance in total darkness and under severe weather conditions.



The innovative optical system, the sensitive detector and the digital video processing provide superb-detailed image at any time of the night or the day in a completely passive mode.



The reliable mechanical design makes **GOLIATH** suitable for external installation without an additional sealing of the housing.

The optical system allows switching between two fields of view – wide and narrow.

Along with its accessories **GOLIATH** includes a graphical user interface software for remote control and setup of the main functions.

**GOLIATH** is designed for versatile application in the field of security systems, fire-precaution equipment, video surveillance of border areas, strategic zones and others.

**GOLIATH** is an IP camera and can be used for an upgrade of any existed CCTV video surveillance TCP/IP network and controlled over a PC. Using this configuration, you can remotely control all activity over the Web.

A characteristic of the uncooled thermal imaging cameras is that they apply to monitoring of short ranges, as

the maximum distance for detection of human figure rarely exceeds 600 meters. **GOLIATH** surpass ten times these values, offering unique and unusual for this type of cameras an additional narrow field of view.



In conclusion **GOLIATH** combines the ability to conduct surveillance over long distances and the advantages of the uncooled thermal imaging cameras, which are:

- Lack of a cryogenic cooler having a high consumption and expensive maintenance;
- Significantly lower price;
- Continuous operation.

# GOLIATH TECHNICAL PARAMETERS

## SENSOR (FPA)

Material **Microbolometer**  
 Spectral range **8 ÷ 14 μm**  
 Resolution **384 x 288, 640 x 480 pixel array**  
 Frame rate **25 Hz (PAL) / 30 Hz (NTSC)**  
 Pitch size **25 μm**  
 NUC **Automatic / Manual**  
 Polarity **White hot / Black hot**  
 Contrast / Brightness **Automatic / Advanced Image Processing**  
 NETD **< 50 mK @ F/#1 objective**

## OBJECTIVES

Focal length (narrow FOV / wide FOV) **342 mm / 114 mm**

## FUNCTIONAL CHARACTERISTICS

FOV **Narrow FOV 1.6° / Wide FOV 5° (384 x 288),  
 Narrow FOV 2.7° / Wide FOV 8° (640 x 480)**

Digital zoom **x2, x4**

Functions **Video Polarity, NUC, Zoom, Freeze, ROI (region of interest)**

Analog video output **CCIR (PAL) or RS-170 (NTSC)**

Digital video output (option) **USB 2.0**

Remote control **TCP/IP, RS 232, RS 422 or USB 2.0 (option)**

Consumption **≤ 5 W**

Voltage **7 ÷ 9 V DC, 12 V DC (option)**

Work temperature range **-40°C to +60°C**

Encapsulation **IP66**

Dimensions (H x W x L) **268 mm x 250 mm x 490 mm**

Weight **< 15 kg**

## THERMAL IMAGING PERFORMANCE

Human recognition range\* **> 1894 m**

Human detection range\* **> 6840 m**

Human recognition range\*\* **> 631 m**

Human detection range\*\* **> 2280 m**

\* Objective's f'=342 mm

\*\* Objective's f'=114 mm

Operational distances are given at levels of 50% success probability and 2°C temperature difference between target and background

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