

preliminary  
specifications

# ALLIGATOR

DIGITAL NIGHT VISION TO THE LIMIT

Multi-purpose  
Passive night vision camera  
Image intensifier based  
Ruggedized, waterproof  
PAL or 1280x1024 HD-SDI output

Monitoring pattern of life, target acquisition, real time night vision video for surveillance, night time wildlife observation. Without the need for illumination and the risk of being detected. ITS Alligator is a versatile, ruggedized and waterproof night vision camera with Milspec design, delivering video with the quality of night vision goggles.

Analogue PAL or digital HD-SDI, Plug and play video data, 24/7 surveillance for even the darkest targets. Connectable to any digital or analogue video recorder/transmitter for target acquisition and evidence recording. Battle damage assessment, reconnaissance video, Alligator is the most versatile night vision camera today.

## Benefits

- See through glass
- Detect lights
- See depth in the dark
- Remain passive in the darkest situations

## Applications

- Surveillance, Target Acquisition and Reconnaissance
- Perimeter control
- Passive, covert surveillance
- Wildlife monitoring



# ITS

**Innovative Technical Solutions BV**

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NIGHT VISION THERMAL IMAGING CAMERA DEVELOPMENT

EXTRAORDINARY CAMERA SYSTEMS



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## System basics

Type	Image Intensifier based, monochrome, high sensitive core
Sensor	WDR CMOS
Image intensifier	Photonis XR5 (other types on request)
Resolution	1280x1024 HD-SDI and PAL 720 x 576
Dynamic range	Ultra-high dynamic range: 140 dB, high contrast
Spectral range	400 - 1000 nm
Frame rate	25Hz PAL/HD-SDI
Detection limit	<1 $\mu$ Lux @ 2850 K, full frame rate
EBI (equivalent background illumination)	<0,25 $\mu$ Lux
Image intensifier control	Closed loop, integrated digital control
Optical format	1 inch, 18 mm diagonal
Lens mount	C/CS mount

## Input and output

Connector (I/O)	Sam tec CCR-12 proprietary cable for power and video out with break-out
Output	PAL analog video or digital HD-SDI

## Features

Image enhancement	Powerful, FPGA based, digital image enhancement: anti-blooming, noise reduction, image sharpening, contrast enhancement, etc.
Image intensifier protection	Closed loop image intensifier control to preserve sensitivity and contrast Protected with ITS' Virtual Iris™ technology
ShadowBoost™	Optional

## Physical dimensions

Size and weight	Diameter: 60 mm; length: 85 mm; 260 gram (without lens)
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## Power

Input voltage	5 Volt DC
Power consumption	~1,5W

## Environmental parameters

Operating and storage temperature	-20°C to +60°C, -35°C to +60°C
Shock	75 g - 6 ms



Designs and specifications are subject to change without notice.

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