

Imagine the invisible

Security

# Raven-640-Analog 17 $\mu$ m

Security solutions with SWAP infrared cameras



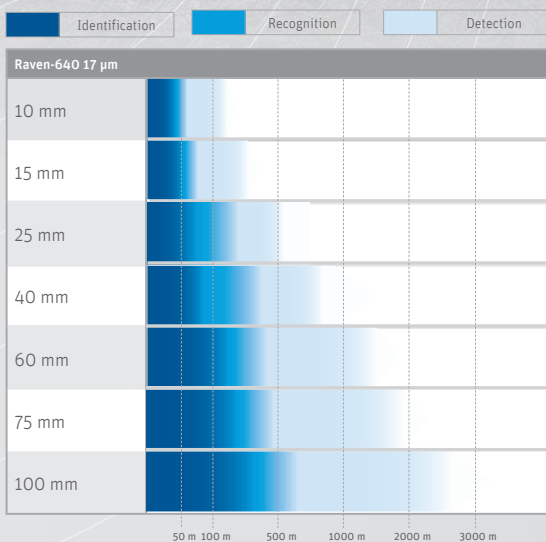
## Best Detection, Recognition and Identification values to protect your facilities

The Raven-640-Analog 17  $\mu$ m is an infrared imaging camera, specially designed for the demanding security market with a high operating temperature range. The thermal image is crisp and clear, even under difficult weather conditions and in complete darkness without the use of additional illumination.

To meet the needs of the professional security community the Raven-640-Analog 17  $\mu$ m can be configured with various lenses for short-range, medium-range and longrange observation. The camera interface can be PAL/NTSC video for a regular

CCTV security network. The camera is controlled by RS232. The integration and use of these infrared cameras are so easy, that no operator training is required.

The detector of the Raven-640 17  $\mu$ m has a very high resolution of 640 x 480 pixels and offers the earliest and most reliable detection of even the smallest temperature change and the smallest object. The on-board image processing guarantees excellent image quality without the need for adjustment.



### Designed for use in



Security Monitoring



Border security



Fire fighting thermal



Fire fighting visual

### Applications

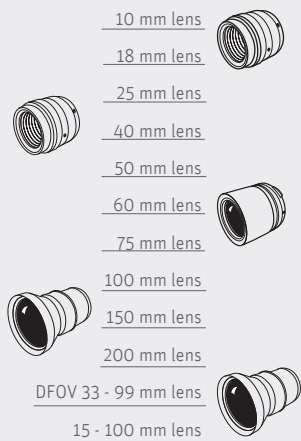
- Firefighting
- Surveillance
- Traffic safety
- Border control
- Perimeter security
- Search & Rescue (SAR)

### Benefits & Features

- Shutter manager
- On-board image processing
- Small pitch for longer DRI values
- One mount for exchangeable lenses
- Small, low weight and low power consumption

## Broad range of accessories.

### ▸ Lens & filter options



### ▸ Inputs

Power 12V



Analog video  
RS232

### ▸ Software



• Xeneth basic

### ▸ Outputs

## ▸ Specifications

Array Specifications	Raven-640 17 $\mu$ m
Array Type	Uncooled microbolometer (a-Si)
Spectral band	8 $\mu$ m to 14 $\mu$ m
# Pixels	640 x 480
Pixel Pitch	17 $\mu$ m
Array Cooling	Uncooled
Pixel operability	> 99 %

Camera Specifications	Raven-640 17 $\mu$ m
<b>Lens (included)</b>	
Focal length	18 mm f/1, HFOV 33.6°, standard manual focus
Optical interface	Lens mount supporting multiple lenses
<b>Imaging performance</b>	
Frame rate	Max 30 Hz NTSC
Shutter	Yes
Integration type	Rolling Shutter
A to D conversion resolution	16 bit
<b>Interfaces</b>	
Camera control	RS232 (XSP)
Analog out	PAL or NTSC
<b>Power requirements</b>	
Power consumption	2.6 W
Power supply	12 V
<b>Physical characteristics</b>	
Shock	70 G, 2 ms halfsine profile (without shutter)
Vibration	4.5 G, (5Hz to 500 Hz)
Ambient operating temperature	-40° C to 70° C
Dimensions	49 W x 49H x 67 L mm (without lens)
Weight camera head	200 g (Lens not included)

## ▸ Product selector guide

Part number	NETD	Frame rate (Hz)	Analog out
XEN-000067	50 mK	25	PAL
XEN-000089	50 mK	30	NTSC
XEN-000090	50 mK	9	PAL
XEN-000091	50 mK	9	NTSC



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