

**NOCTURN™**

24/7  
VERSATILE  
IMAGING



# Day-through-night surveillance

## Be the first to see with Photonis Digital Vision

Designed for crystal clear imagery in day-through-night lighting conditions, Photonis technology offers a wide variety of imaging products with high resolution, high frame rates and low light capabilities.

With a number of interfaces and digitally recordable options, NOCTURN cameras are ideal for surveillance & security applications, industry & research projects and mobile use.

### NOCTURN™ Imaging Sensors

**Photonis NOCTURN cameras** are equipped with one of two patented digital CMOS imaging sensors – the Lynx sensor for monochrome output or the Kameleon sensor for full colour even in very dark conditions. Both sensors can be integrated in Night Vision, Homeland Security, Surveillance and Scientific applications. Since its launch, NOCTURN sensors have successfully been used in hand held observation devices, digital sights, vehicle situational awareness devices, unmanned aerial vehicle (UAV) cameras and more.

These solid-state CMOS sensors provide excellent imaging from daylight to low-light levels – such as those found during a quarter moon. The CMOS pixel architecture offers the best compromise between inherent signal-to-noise ratio (SNR), high resolution and intra-scene dynamic range. With total read-out noise below 4 e<sup>-</sup> without cooling, the Lynx and the Kameleon CMOS video processing electronic boards (NOCTURN camera core) facilitate integration into a wide range of compact imaging systems. This allows ideal detection recognition and identification that can be transmitted or recorded.



NOCTURN LYNX



NOCTURN KAMELEON

## Operate in **full colour**

### **ULTRA COMPACT**

Lightweight and small size

### **ALL LIGHTING CONDITIONS**

From daylight to bright starlight

### **MILITARY GRADE RUGGEDIZED**

For added durability



### **MEGA PIXELS CMOS**

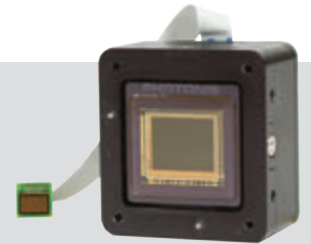
Superior colour imaging

### **ALL LASER LINES COMPATIBLE**

For total laser detection

### **EASY INTERFACE**

USB control link



### **XS NOCTURN XS**

Digital Video Output: CameraLink® Compatible or parallel LVCMOS The NOCTURN XS Camera is powered by the Lynx CMOS imaging sensor, optimised for low light level imaging\*.

### **XL NOCTURN XL**

Digital Video Output: 10/8-bit CameraLink® Compatible Analog Video Output: NTSC/PAL (user selectable) The NOCTURN XL Camera is powered by the Lynx CMOS imaging sensor, optimised for low light level imaging\*.

### **MD NOCTURN MD**

Analog Video Output: User-selectable NTSC/PAL. The NOCTURN MD Camera is powered by the Lynx CMOS imaging sensor, optimised for low light level imaging\*.



### **GP NOCTURN GP**

Digital Video Output: Monochrome; 8/10-bit monochrome over GigE Vision. Colour; Monochrome 8/10-bit monochrome, Colour 24 bit YCbCr (4:2:2) or YUV (4:2:2) over GigE Vision. The NOCTURN GP Camera uses the power of the Kameleon Colour CMOS imaging sensor, or the Lynx monochrome sensor, both optimised for low light level imaging.

### **U3 NOCTURN U3**

Digital Video Output: Monochrome; 8/10-bit over USB3. Colour; Monochrome 8/10-bit over USB3 or 24-bit YCbCr or YUV (4:2:2 format) over USB3. The NOCTURN U3 Camera uses the power of the Kameleon Colour CMOS imaging sensor, or the Lynx monochrome sensor, both optimised for low light level imaging.

### **HD SDI NOCTURN HD-SDI**

Video Output: HD-SDI 720p 60 Hz The NOCTURN HD-SDI Camera uses the power of the Kameleon Color CMOS imaging sensor, or the Lynx monochrome sensor, both optimised for low light level imaging.

# PHOTONIS

Digital Vision

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