

noxant

NOXCORE VISION COMPACT HIGH PERFORMANCE INFRARED CAMERA CORES

Compact and lightweight

Crystal clear image with
advanced video processing

Standard interfaces for
seamless integration

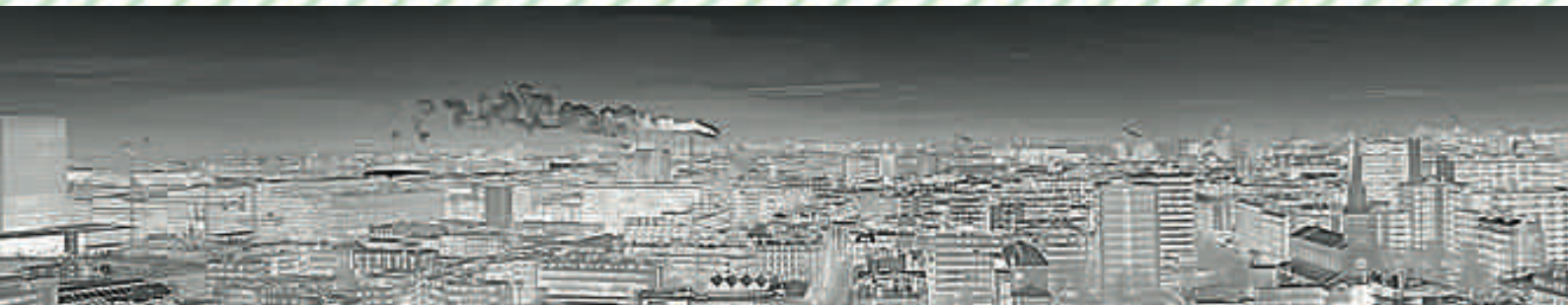
Made in France



NoxCORE Vision are thermal vision modules based on the NoxEngine technology. They include all the features required for surveillance applications (Site monitoring, Traffic surveillance, Pollutant search, etc.).

Equipped with the latest generation of thermal detector, cooled by stirling engine, NoxCORE Vision cores offer unmatched performance in a reduced footprint and energy consumption.

The Noxant team is dedicated to provide you with in-depth assistance for the optimal integration of NoxCORE Vision in your system, and trains your team to get the maximum out of the NoxEngine technology.



www.noxant.com

Main Features



Image Improvements

Video Details Enhancement / Histogram Equalization / Dark Field / Flat field / Adaptive Median Pixel Replacement / Gain & Offset



Thermal Scene Optimization

Integration time from 100us to 40ms
Frame rate adjustment from 1Hz to 50Hz
Multiple configurations



Zoom Lens Control

FOV / Focus
Autofocus



High resolution video output

HDMI 720p output with color palettes
3/4 or 16/9 ratios
High Quality Digital color overlay
Customizable Reticule design
Multiple languages

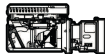


Embedded Recording

h.264 or RAW Sequences or Snapshots
on SSD Drive or Embedded Memory

Optical Configurations

Noxcore 275



DRI

Man : 9,2km / 2,9km / 1.2km
Vehicle : 15.5km / 6.0km / 3.3km

Focal (mm) / FOV (°)

Wide 18mm to narrow 275mm
Wide FOV: 29.8°(H) x 24.1°(V)
Narrow FOV: 2°(H) x 1.6°(V)

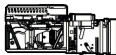
Dimensions

191L x 94l x 93h

Weight

<1100g

Noxcore 300



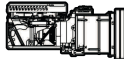
Man : 10.1km / 3.2km / 1.4km
Vehicle : 16.4km / 6.6km / 3.7km

Wide 15mm to narrow 300mm
Wide FOV: 35,5°(H) x 28,7°(V)
Narrow FOV: 1.83°(H) x 1.46°(V)

215L x 95l x 93h

<1360g

Noxcore 430



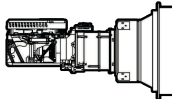
Man : 13.1km / 4.6km / 2.3km
Vehicle : 19.1km / 9.0km / 5.5km

Wide 18mm to narrow 430mm
Wide FOV: 29.8°(H) x 24.1°(V)
Narrow FOV: 1.28°(H) x 1.02°(V)

234L x 110l x 108h

<1800g

Noxcore 860



Man : 16.4km / 8.2km / 4.7km
Vehicle : 21.0km / 13.5km / 9.1km

Wide 36mm to narrow 860mm
Wide FOV: 15.2° (H) x 12.2°(V)
Narrow FOV: 0.64°(H) x 0.5°(V)

335L x 188l x 188h

<3400g

Atmospheric attenuation factor of 0.82 db/km and $\Delta t = 5^\circ C$

Other configurations are available on request. Noxant can be tailored to fit your requirements.

Video and Control Interfaces

Video output format

Color HDMI 720p with color overlay
Optional SDI

Streaming video

h.264 / RTSP Server or GigE

Control

RS232 or Ethernet IP

Detector

Detector type

Cooled MCT, snapshot FPA

Spectral range

Band 2 - 3.7 μ m to 4.8 μ m

Matrix size / pitch

640 x 512 pixels / 15 μ m

Optical aperture

f/5.5 (f/4 available)

Cooling Engine

Rotary Stirling

Cooldown time @20°C

<6 min

Physical Interfaces

Power Consumption @ 20°C

<15W in steady operation @12VDC

Power supply

12V up to 30VDC

Mechanical Interface

Refer to mechanical ICD

Environment

Operating Temperature Range

-30°C to +65°C

Storage Temperature Range

-40°C to +70°C

Vibration

Operational 2g, IEC 68-2-29

Shock

Operational 25g, IEC 68-2-26

Integration Examples



Your Noxant local partner

About Noxant

Founded by highly experienced vision specialists, Noxant designs and develops groundbreaking infrared vision solutions for industrial and surveillance applications.



Noxant

7, rue de la Croix Martre
91120 Palaiseau, France

www.noxant.com

noxinfo@noxant.com
+33 9 67 37 96 21

DESIGNED AND MANUFACTURED IN FRANCE

© 2016 Noxant. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. Noxant is a registered trademark of Noxant SAS.