

NOXCAM-HSI

HIGH PERFORMANCE RADIOMETRIC INFRARED CAMERAS FOR HARSH ENVIRONMENTS

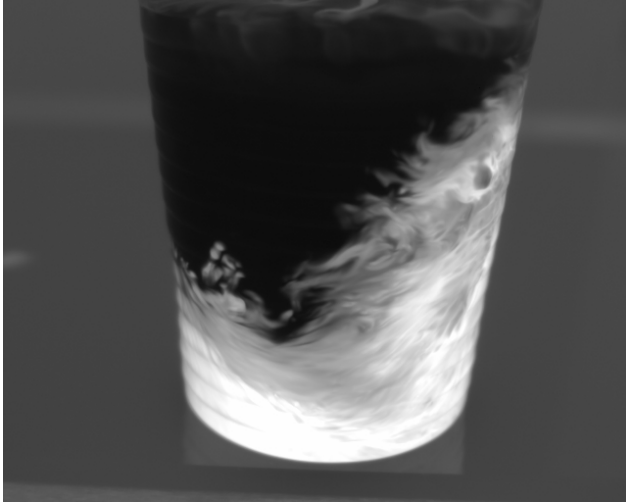
ACCURATE RADIOMETRIC CALIBRATION

EMBEDDED RECORDING

OPTICAL INTERFACE FLEXIBILITY

STANDARD INTERFACES AND SOFTWARE COMPATIBILITY FOR SEAMLESS USE





NoxCam HSi series complement the portfolio of radiometrically calibrated infrared cameras with a stiff and robust housing specifically designed for harsh environments.

Based upon our latest version of NoxEngine technology, NoxCam HSi is the perfect tool for applications requiring high speed imaging and interfaces while maintaining the camera ease of use recognized by our users.

NoxCam HSi is used for industrial non-destructive testing, signature application or airborne thermography. Radiometrically calibrated, NoxCam provides measurement data of impressive accuracy.

Equipped with the latest generation of thermal detector, cooled by stirling engine, NoxCam HSi cameras offer unmatched performance and flexibility in a reduced footprint, together with ease of use provided by on-board raw calibrated data recording, embedded control software and compatibility with industry standard analysis software such as Matlab® or ImageJ.

We only present general information in our product pages. Enumerating all the possibilities would make reading tedious. In addition, your project is definitely unique. It is important that we discuss it together. [Contact us](#)

STANDARD SENSING CONFIGURATIONS

NOXCAM 640M-HSI

- **Director Type** Cooled, snapshot FPA

- **Spectral Range** MWIR Band - 3 μ m to 5 μ m
Broadband - 1.5 μ m to 5.5 μ m
Integrated Optical Filter Wheel
- **Image Size** 640x512 - 15 μ m pitch
- **Frame Rate** Up to 355Hz
Kilohertz in sub-window mode
- **Optical Aperture** f/1.5 to f/5.5
- **Lenses Range** From 12mm to 200mm
Microscopic lens

NOXCAM 640L-HSI

- **Director Type** Cooled, snapshot FPA
- **Spectral Range** LWIR Band - 7.7 μ m to 9.3 μ m
up to 11 μ m with VLWIR
Integrated Optical Filter Wheel
- **Image Size** 640x512 - 15 μ m pitch
- **Frame Rate** Up to 230Hz
Kilohertz in sub-window mode
- **Optical Aperture** f/2 to f/4
- **Lenses Range** From 12mm to 200mm
Microscopic lens

RADIOMETRIC MEASUREMENT

Measurement Range

Typical 5°C to 300°C, Radiometric measurement ranges are optimized to fit your application requirements and can be set between sub-zero to up to 3000°C. A Radiometric measurement evaluation is performed for each user case. Noxant's Radiometric Measurements are compensated against temperature deviation.

NETD

Typical 18mK, it is indicative only as NETD value deviation is wide up on measurement conditions. NETD can be dramatically improved using the NoxCam HSi Synchronous Lock-in input.

Sync Input

Ultra low jitter input signal allows to synchronize the photon collection time with an external event, such as PLC signal, a rotation coder or a photoelectric cell.

Lens interface

Although we offer a wide range of lenses, we recognize that users may already own existing valuable lenses. We promote reusing them. To do so, NoxCam HSi can be fitted with Industry standard bayonet interface or a M80 interface. It is also possible to fit it with a custom interface on demand.

DATA AND CONTROL INTERFACES

Interface

GigEVision / Gen<i>i</i>cam

Optional Camera Link base or medium

Recording Format

Radiometric RAW or h.264

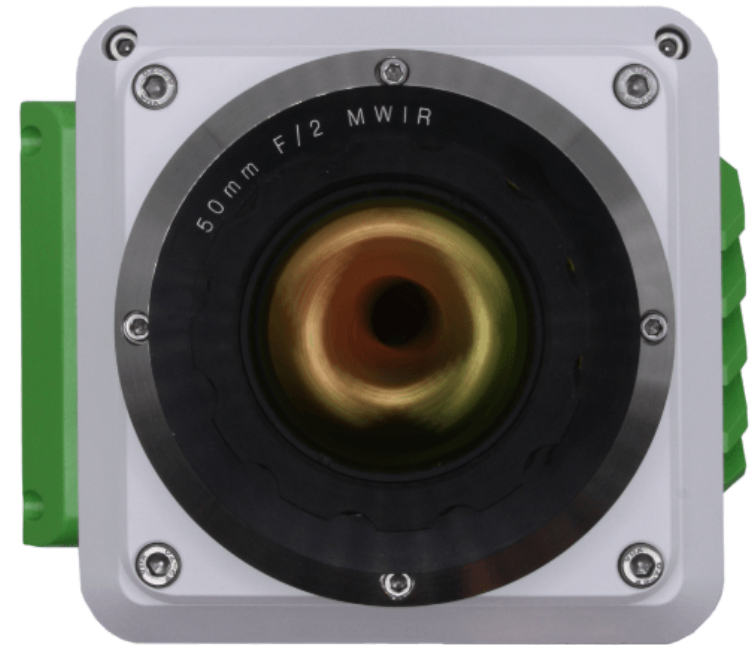
Recording Media

Removable 2,5" SSD

Video output format

Color HDMI 720p with color overlay

Optional SDI



SOFTWARE COMPATIBILITY

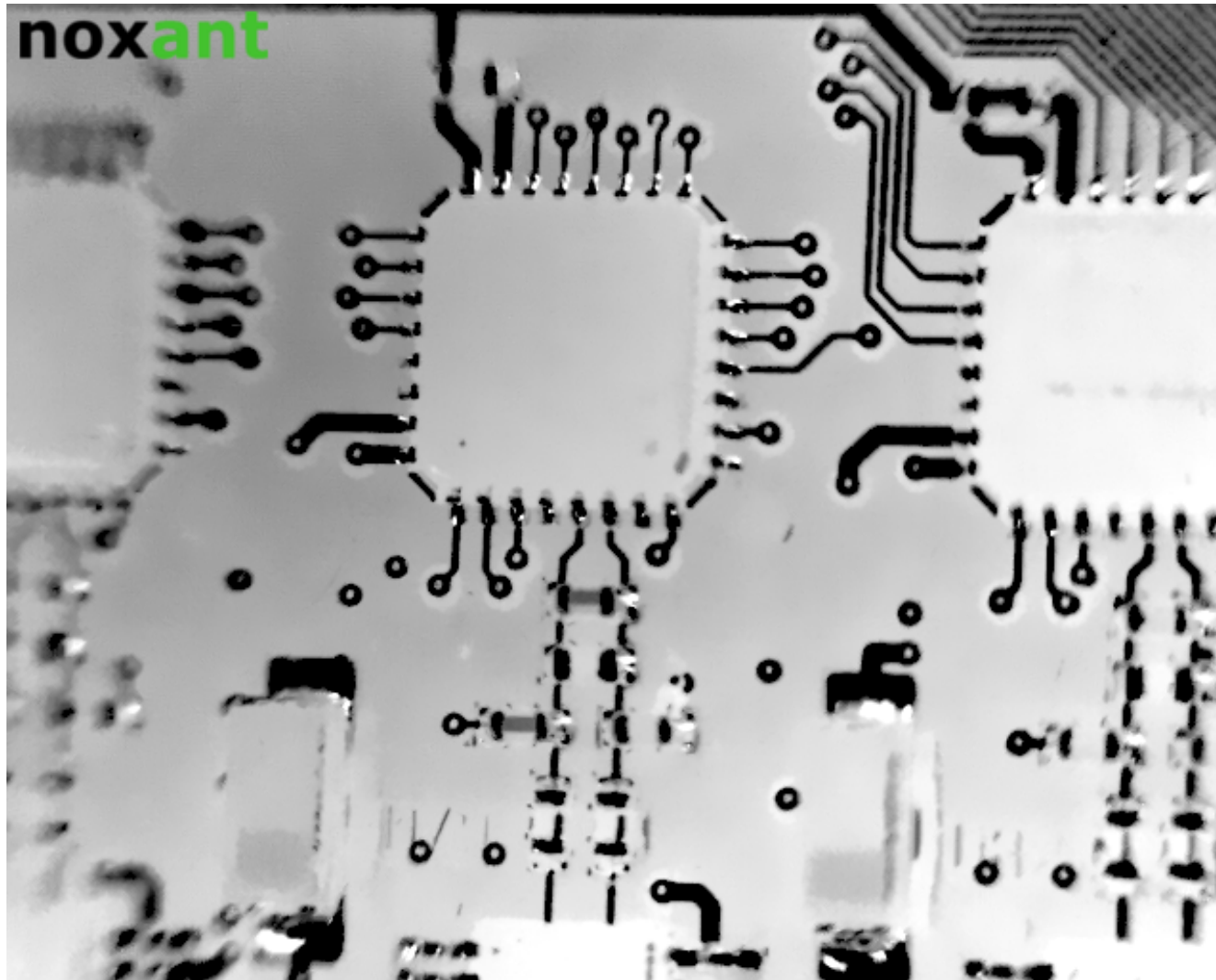
Flexibility is important to us. NoxCam cameras are compatible with all major operating systems such as Windows®, Mac OS X® or Linux®.

Recorded RAW sequences are compatible with industry standard analysis software such as ImageJ, Matlab® or Labview®.

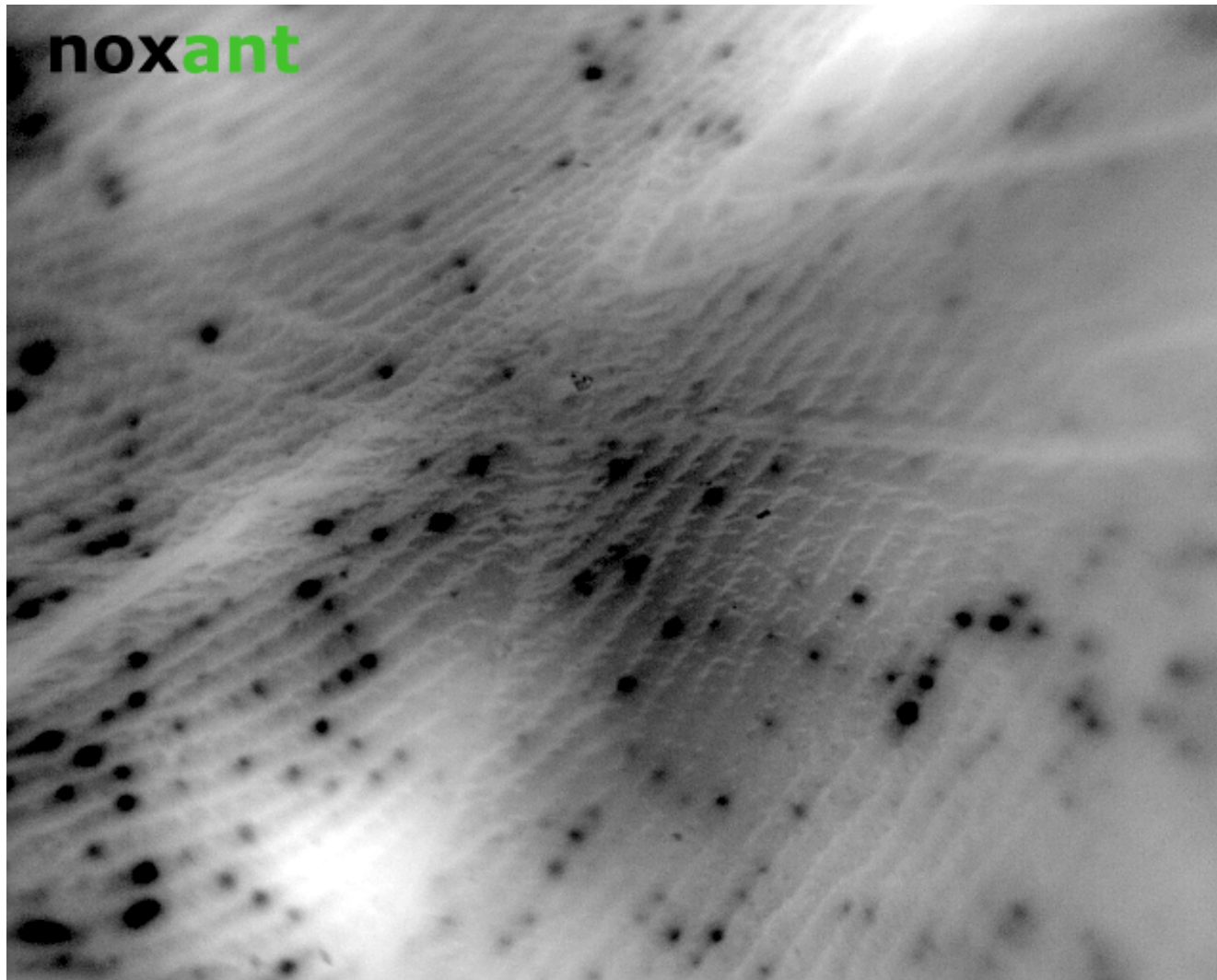
File formats, radiometric calibration data and procedures are provided to our customer on demand.



Hand on jacket



Electrical circuit



Hand skin

noxant

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Founded by highly experienced vision
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