

# PENS∧R™

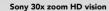
## World's first dual spectrum computer vision platform

Real-time insights powered by artificial intelligence









Never miss a detail, no matter how small, with the built-in Sony 30x zoom camera.



#### FLIR Boson IR

The integrated FLIR Boson camera allows users to easily identify heat signatures and determine their temperature.



#### NVIDIA® Jetson™ GPU

Al-based real-time aerial processing is possible due to the integration of the world's first supercomputer on a module.



#### Real-time Al apps

Programmed by the operator or learned autonomously over time, the dual-camera can detect, classify and track points of interest as they are captured on screen.







## PENSAR | Actionable insights in real-time

The future of drone data processing is onboard



## Code and deploy

Develop and discover the endless capabilities of PENSAR



#### Software development kit

Take advantage of NVIDIA®'s JetPack software development kit which includes access to a bustling interactive community of developers and allows users to develop customized algorithms based on their requirements.



#### Customize & develop

The intelligent platform comes with Ubuntu Linux, an open-source operating system that makes it accessible for users to make small or big changes to the platform to customize its capabilities for their desired needs.

## PENS∧R<sup>™</sup> apps available today



#### 1/1 and 1/2 view

View daylight and thermal livestreams simultaneously with ease.



#### Sensor fusion

Overly the daylight and thermal streams into one comprehensive view.



#### Car detection & tracking

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Autonomously recognise and track cars with PENSAR's computer vision.



#### OCR / License plate reading

Auto-detection of license plates ensures no detail is skipped or incorrect.



#### People detection & tracking

Let the computer vision automatically detect and track subjects of interest.



#### Privacy masking

Protect the privacy of bystanders or sensitive content by instantly blurring out the details.



#### Image stabilization

Ensure the video & images collected are easy to view by correcting shaky movements.



### Custom apps

Tell us about your desired use and let us create your custom solution.

## **Specifications** that exceed expectations



#### 30x zoom (HD)

Vision HD (1920 x 1080) 1/1 (16:9)



#### IR - FLIR Boson

Thermal IR view / Radiometric 1/1 (3:2)



#### NVIDIA® Jetson™ GPU

Jetson™ TX1 / TX2



#### Wifi / Bluetooth connectivity

UART (Mavlink), CANbus & PWM



#### Sensor fusion

IR overlay on vision image stream



#### Al apps

Hand-coded / Deep learning algorithms



#### OCR

Optical character recognition



## SDK

Software development kit



Interested in Aerialtronics products, have any questions about our products or would like to request a demonstration?

Feel free to contact us.

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