

# THE LATEST JAI CAMERA ARRIVALS AT A GLANCE

## SPARK SERIES (Area Scan - single-sensor)

JAI's Spark Series is the perfect choice for applications that demand high quality images with the highest possible throughput. The latest addition to JAI's Spark Series is:

### SP-45000-CXP4 & SP-45001-CXP4

- 44.7 megapixel CMOS sensor
- Up to 52.19 fps at full resolution (SP-45000)
- Up to 38.67 fps at full resolution (SP-45001)
- 8192 x 5460 pixels
- 3.2  $\mu\text{m}$  X 3.2  $\mu\text{m}$  pixel size
- Built-in functions for HDR
- GenICam-compliant 4-channel CoaXPress interface



With  
**XGS-45000**  
**CoaXPress**

## GO SERIES (Area Scan - single sensor)

JAI's Go Series delivers an exceptional blend of small size, high versatility, and excellent performance, all at an entry-level price, making it the perfect starting point for a wide range of machine vision applications. The latest addition to this family is:

### GO-5100MP-USB

- 5.1 MP CMOS
- 2464 x 2056 pixels
- Up to 74 fps (with USB3 Vision)
- Up to 22.7 fps (with GigE Vision)
- 3.45  $\mu\text{m}$  x 3.45  $\mu\text{m}$  pixel size
- 4-way polarized filter design angled at 0°, 45°, 90°, and 135°



With SONY  
**IMX250MZR**

**POLARIZED**



## APEX SERIES (Area Scan - 3-sensor)

The Apex Series cameras are 3-sensor CMOS R-G-B prism area scan cameras delivering exceptionally accurate R-G-B raw image data. They are ideal for demanding color vision applications in machine vision and life sciences.

### AP-3200T-USB

- 3 x 3.2 MP CMOS
- 2064 x 1544 pixels
- Up to 38 fps (with USB3 Vision)
- Up to 12 fps (with GigE Vision)
- Up to 55 fps (With PMCL)



With SONY  
**Pregius IMX265**



### AP-1600T-USB

- 3 x 1.6 MP CMOS
- 1456 x 1088 pixels
- Up to 79 fps (with USB3 Vision)
- Up to 24 fps (with GigE Vision)
- Up to 126 fps (With PMCL)



With SONY  
**Pregius IMX273**



## APEX SERIES - MICROSCOPY (3-sensor)

New Apex **AP-3200T-USB-LSX** and **AP-1600-USB-LSX** models are fine-tuned for microscopy applications in machine vision and life sciences. Compatible with Image-Pro from Media Cybernetics and open source  $\mu$ Manager.



## FUSION SERIES (Area Scan - 2 & 3-sensor)

Multi-spectral cameras perform both visible and near-infrared (NIR) inspection simultaneously, by splitting incoming light to two or three separate sensors. This makes it possible to use a single camera to simultaneously inspect both visible elements and sub-surface defects or other information that is optimally detected at NIR wavelengths.

### FS-3200D-10GE

- 2 X 3.2 megapixel CMOS
- Prism-based
- 1 x visible color + 1 x NIR sensors
- Up to 123 fps at full resolution
- 2048 X 1536 pixels
- 3.45  $\mu\text{m}$  X 3.45  $\mu\text{m}$  pixel size
- Also with 3 x 1.6 megapixels: **FS-1600D-10GE** (226 fps).



With SONY  
**IMX252**

**10 GiGE VISION**

### FS-3200T-10GE-NNC

- 3 X 3.2 megapixel CMOS
- Prism-based
- 1 x visible color + 2 x NIR sensors
- Up to 107 fps at full resolution
- 2048 X 1536 pixels
- 3.45  $\mu\text{m}$  X 3.45  $\mu\text{m}$  pixel size



With SONY  
**IMX252**

**10 GiGE VISION**

## SWEEP+ SERIES (Line Scan - 3 & 4-sensor)

The Sweep+ Series are multi-sensor prism-based color/NIR line scan cameras combining precision, sensitivity and multi-spectral options. New additions to the family are:

### SW-4000T-10GE

- 3 x 4096 pixels CMOS
- R-G-B color line scan
- Prism-based
- Up to 100 kHz
- 10GBASE-T GigE Vision interface. (Backwards compatible to 5GBASE-T/2.5GBASE-T and 1000BASE-T).
- Applications from lowest to fastest speeds



**WORLD'S FIRST**

**10 GiGE VISION**  
**SFP+**

### SW-4000Q-10GE

- 4 x 4096 pixels CMOS
- R-G-B color + NIR line scan
- Prism-based
- Up to 72 kHz
- 10GBASE-T GigE Vision interface. (Backwards compatible to 5GBASE-T/2.5GBASE-T and 1000BASE-T).
- Applications from lowest to fastest speeds



**WORLD'S FIRST**

**10 GiGE VISION**  
**SFP+**

## SWEEP SERIES (Line Scan - trilinear/mono)

JAI's SW-4000TL-PCML is a new trilinear camera in the Sweep Series. Some of the main features are...

### SW-4000TL-10GE

- 3 x 4096 pixels CMOS
- Trilinear color
- Up to 66 kHz
- Color space conversion tool (HSI, CIEXYZ, sRGB, Adobe RGB + more)



**10 GiGE VISION**  
**SFP+**



Ask for detailed information  
[www.jai.com](http://www.jai.com)

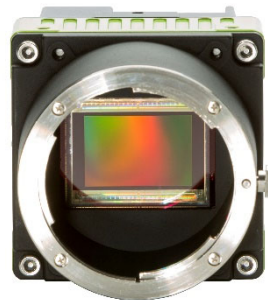
See the possibilities

# Get the full picture...



## ...without missing a detail.

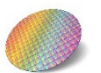
With its rare combination of high resolution, high frame rate, and outstanding image quality, the new Spark Series 45-megapixel SP-45000-CXP4 lets you do things you never could before. Like inspect the smallest defects on a flat panel display faster and with fewer cameras needed. Or create a high resolution, 3D sports replay system running at over 60 frames per second. Or achieve better image quality for street views, aerial imaging, semiconductor inspection, and much more thanks to a 73 dB built-in high dynamic range function and a dark noise rating of only 4.5 electrons.



**CoaXPress**

### Spark SP-45000-CXP4 / SP-45001-CXP4

- ✓ Market leading frame rate and image quality
- ✓ 8192 X 5460 pixels CMOS sensor
- ✓ 52.19 frames/s in full resolution (SP-45000-CXP4)
- ✓ 38.67 frames/s in full resolution (SP-45001-CXP4)
- ✓ 65 frames/s in 8K TV resolution (SP-45000-CXP4)
- ✓ 14-bit HDR mode for up to 73 dB dynamic range
- ✓ Dark noise: 4.5 e-
- ✓ Birger lens mount control
- ✓ High speed CoaXPress interface



Semiconductor inspection



Aerial imaging/mapping



Automated inspection



High precision metrology



Virtual reality/entertainment

If you build systems for applications like those above, maybe it's time to think "big picture." Visit [www.jai.com/45-megapixel](http://www.jai.com/45-megapixel) to download a datasheet, request a price quote, and get all the details.

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See the possibilities

