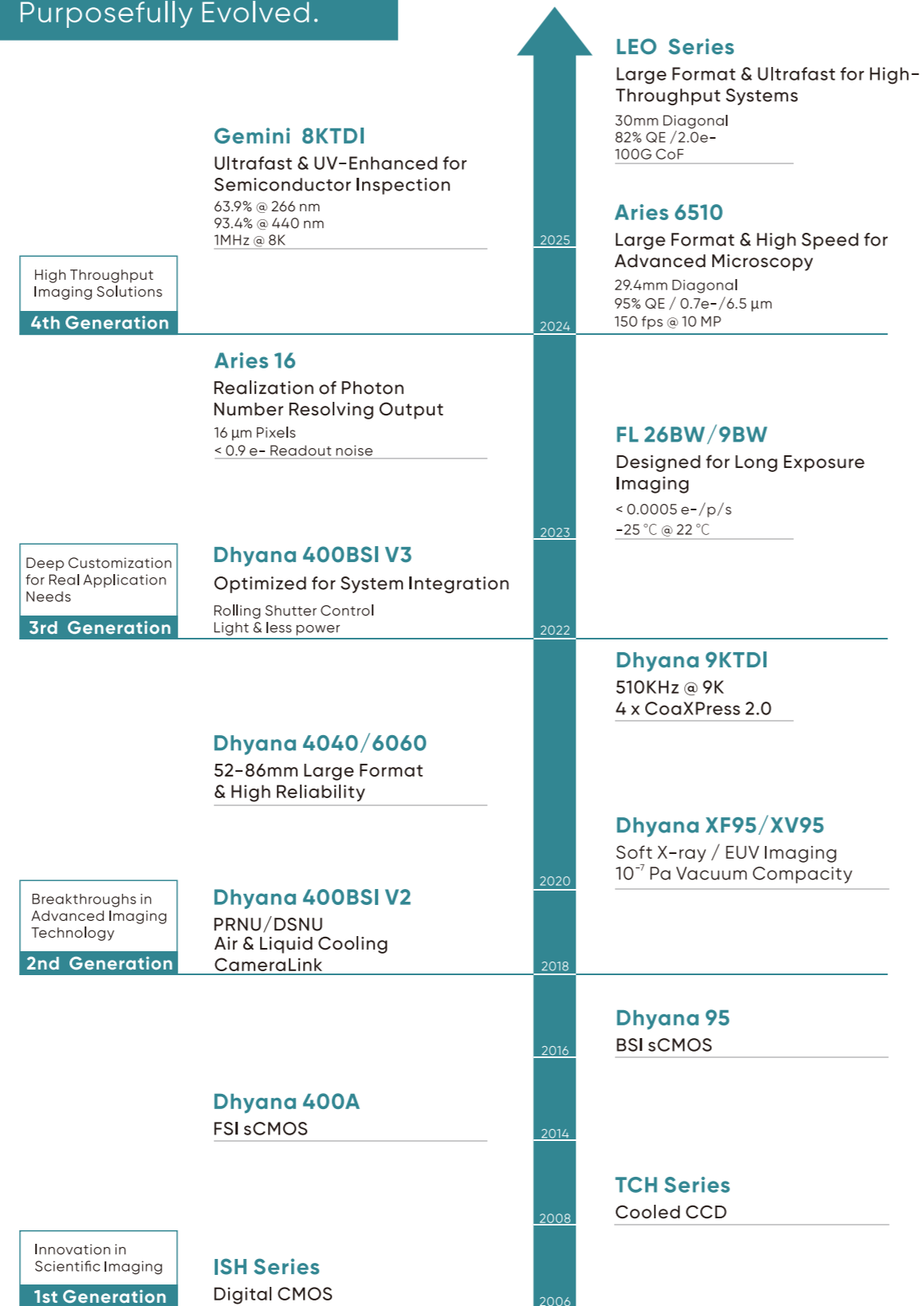




## Product Roadmap

Continuously Upgraded,  
Purposefully Evolved.



## Contact Us

Tucsen Photonics Co., Ltd.

Web: [www.tucsen.com](http://www.tucsen.com)

Email: [support@tucsen.com](mailto:support@tucsen.com)

Tel: +86 591 28055080



Follow us on LinkedIn.

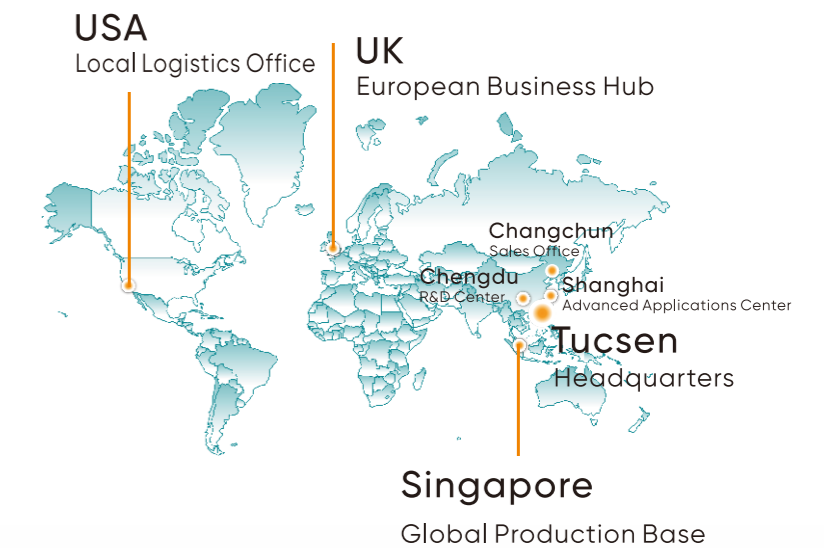
ISO9001 CE RoHS



## About Tucsen

Tucsen designs and manufactures camera technology focused on Scientific Research and Challenging Inspection. Our focus is to create reliable camera devices which allow our customers to answer challenging questions. Engineering talent and relationships with our sensor providers allow us to drive product performance and our business model allows us to also drive a price advantage.

With operations in Europe, North America and Asia, we help customers in numerous markets across the world to discover the answers to quality, research and medical questions.



High Throughput Cameras (TDI / Area)

<p><b>Leo 5514 Pro</b></p> <p>30.5 mm Diagonal 5.5 μm x 5.5 μm 83% QE / 2.0 e- Global Shutter 670 fps @ 14 MP</p> 	<p><b>Leo 5514</b></p> <p>30.5 mm Diagonal 5.5 μm x 5.5 μm 83% QE / 2.0 e- Global Shutter 320 fps @ 14MP</p> 	<p><b>Leo 3243 Pro</b></p> <p>31 mm Diagonal 3.2 μm x 3.2 μm 82% QE / 2.0 e- Rolling Shutter 100 fps @ 43 MP</p> 	<p><b>Leo 3243</b></p> <p>31 mm Diagonal 3.2 μm x 3.2 μm 82% QE / 2.0 e- Rolling Shutter 62 fps @ 43 MP</p> 
---	--	--	---





<p><b>Dhyana 9KTDI</b></p> <p>9K TDI @ 256 stages 180 nm - 1100 nm 510 KHz CXP 12 High-Reliability Cooling</p> 	<p><b>Dhyana 9KTDI Pro</b></p> <p>9K TDI @ 256 stages 180 nm - 1100 nm 600 KHz CoF High-Reliability Cooling</p> 	<p><b>Gemini 8KTDI</b></p> <p>8K TDI @ 256 stages 180 nm - 1100 nm 1 MHz CoF High-Reliability Cooling</p> 	<p><b>Gemini 16KTDI</b></p> <p>16K TDI @ 256 stages 180 nm - 1100 nm 500 KHz CoF High-Reliability Cooling</p> 
--	---	---	---

High Sensitivity Cameras (X-ray / UV / VIS / NIR)

<p><b>Aries 6510</b></p> <p>95% Peak QE 0.7 e- Readout noise 6.5 μm x 6.5 μm 294 mm Diagonal 150 fps @ 10.2 MP</p> 	<p><b>Aries 6506</b></p> <p>95% Peak QE 0.7 e- Readout noise 6.5 μm x 6.5 μm 22 mm Diagonal 200 fps @ 5.8 MP</p> 	<p><b>Aries 16</b></p> <p>90% Peak QE 0.9 e- Readout noise 16 μm x 16 μm 16 mm Diagonal 60 fps @ 0.48MP</p> 
--	--	---

<p><b>Dhyana 400BSI V3</b></p> <p>95% Peak QE 1.1 e- Readout noise 6.5 μm x 6.5 μm 18.8 mm Diagonal 100 fps @ 4.2 MP</p> 	<p><b>Dhyana 95 V2</b></p> <p>95% Peak QE 1.6 e- Readout noise 11 μm x 11 μm 32 mm Diagonal 48 fps @ 4.2 MP</p> 	<p><b>Dhyana 401D</b></p> <p>72% Peak QE 2.1 e- Readout noise 6.5 μm x 6.5 μm 18.8 mm Diagonal 40 fps @ 4.2 MP</p> 
--	---	--

<p><b>Dhyana 4040BSI</b></p> <p>90% QE @ 550 nm 9 μm x 9 μm 4096 x 4096 16.5 fps @ CameraLink 97 fps @ USB 3.0</p> 	<p><b>Dhyana 4040</b></p> <p>74% QE @ 600 nm 9 μm x 9 μm 2048 x 2048 16.5 fps @ CameraLink 97 fps @ USB 3.0</p> 	<p><b>Dhyana 6060BSI</b></p> <p>95% QE @ 580 nm 10 μm x 10 μm 6144 x 6144 26.4 fps @ 12-bit CooXPress 2.0</p> 	<p><b>Dhyana 6060</b></p> <p>72% @ 550 nm 10 μm x 10 μm 6144 x 6144 44 fps @ 12-bit CooXPress 2.0</p> 
--	---	---	---

<p><b>XF/XV 400BSI</b></p> <p>~100% QE @ 80-1000 eV 6.5 μm x 6.5 μm 2048 x 2048 45 Ke- Full well 10" Pa Compatibility</p> 	<p><b>XF/XV 95</b></p> <p>~100% QE @ 80-1000 eV 11 μm x 11 μm 2048 x 2048 85 Ke- Full well 10" Pa Compatibility</p> 	<p><b>XF/XV 4040BSI</b></p> <p>~100% QE @ 80-1000 eV 9 μm x 9 μm 4096 x 4096 37 Ke- Full well 10" Pa Compatibility</p> 	<p><b>XF/XV 6060BSI</b></p> <p>~100% QE @ 80-1000 eV 10 μm x 10 μm 6144 x 6144 102 Ke- Full well 10" Pa Compatibility</p> 
---	---	--	---





High Resolution Cameras (Large FOV. / Global Shutter / Cooled CMOS)





<p><b>Libra 16</b></p> <p>16 mm Diagonal 3000 x 3000 92% QE / 1.0 e- 63 fps @ High Speed 0°C @ 26°C</p> 	<p><b>Libra 22</b></p> <p>22 mm Diagonal 4096 x 4096 92% QE / 1.0 e- 37 fps @ High Speed 0°C @ 26°C</p> 	<p><b>Libra 25</b></p> <p>25 mm Diagonal 5200 x 4096 92% QE / 1.0 e- 32 fps @ High Speed 0°C @ 26°C</p> 
---	---	---

<p><b>Libra 3405 (M/C)</b></p> <p>350 nm - 1000 nm 10.9 mm Diagonal 3.4 μm x 3.4 μm 164 fps @ 5 MP Global Shutter</p> 	<p><b>Libra 3412 (M/C)</b></p> <p>350 nm - 1000 nm 17.4 mm Diagonal 3.4 μm x 3.4 μm 97 fps @ 12 MP Global Shutter</p> 	<p><b>Libra UV</b></p> <p>200 nm - 1000 nm 11 mm Diagonal 2.74 μm x 2.74 μm 152 fps @ 8 MP Global Shutter</p> 
---	---	---

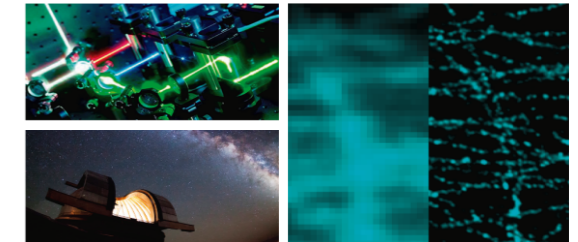
<p><b>FL 26BW</b></p> <p>28.3 mm Diagonal 3.76 μm x 3.76 μm 6.5 fps @ 26 MP &lt;0.0005 e-/p/s -25°C @ 22°C</p> 	<p><b>FL 9BW</b></p> <p>15.96 mm Diagonal 3.76 μm x 3.76 μm 19 fps @ 9MP 0.001 e-/p/s -25°C @ 22°C</p> 	<p><b>FL 20BW</b></p> <p>15.86 mm Diagonal 2.4 μm x 2.4 μm 16 fps @ 20 MP 0.001 e-/p/s -15°C @ 22°C</p> 	<p><b>FL 20(Color)</b></p> <p>15.86 mm Diagonal 2.4 μm x 2.4 μm 14 fps @ 20 MP 0.001 e-/p/s -15°C @ 22°C</p> 
--	--	---	--

Smart Microscope Cameras (HDMI/USB 3.0/ USB 2.0)

<p><b>TrueChrome PDAF</b></p> <p>5.28 mm Diagonal 2886 x 1620 1.6 μm x 1.6 μm 60 fps @ HDMI 50 fps @ USB 2.0</p> 	<p><b>TrueChrome 4K WiFi</b></p> <p>13.33 mm Diagonal 3840 x 2160 2.9 μm x 2.9 μm 30 fps @ HDMI 30 fps @ USB 3.0</p> 	<p><b>TrueChrome 4K Pro</b></p> <p>13.33 mm Diagonal 3840 x 2160 2.9 μm x 2.9 μm 30 fps @ HDMI 30 fps @ USB 3.0</p> 	<p><b>TrueChrome Metrics</b></p> <p>6.46 mm Diagonal 1920 x 1080 2.9 μm x 2.9 μm 25 fps @ HDMI 30 fps @ USB 2.0</p> 
--	--	---	---

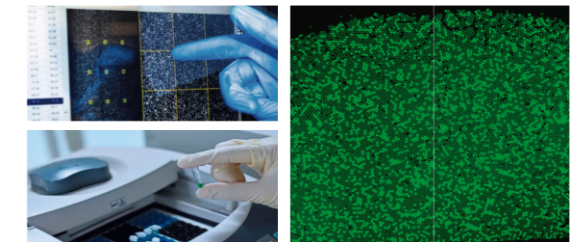
<p><b>Michrome 5 Pro</b></p> <p>11.1 mm Diagonal 2448 x 2048 3.45 μm x 3.45 μm 36 fps @ 5 MP USB 3.0</p> 	<p><b>Michrome 20</b></p> <p>15.86 mm Diagonal 5472 x 3648 2.4 μm x 2.4 μm 15 fps @ 20 MP USB 3.0</p> 	<p><b>Michrome 16</b></p> <p>7.77 mm Diagonal 4608 x 3456 1.34 μm x 1.34 μm 12 fps @ 16 MP USB 3.0</p> 	<p><b>Michrome 6</b></p> <p>8.92 mm Diagonal 3072 x 2048 2.4 μm x 2.4 μm 41 fps @ 6 MP USB 3.0</p> 
--	---	--	--

<p><b>GT 12</b></p> <p>7.77 mm Diagonal 4000 x 3000 1.34 μm x 1.34 μm 15 fps @ 12 MP USB 2.0</p> 	<p><b>GT 5.0</b></p> <p>6.52 mm Diagonal 2560 x 1920 2.0 μm x 2.0 μm 29 fps @ 5 MP USB 2.0</p> 	<p><b>GT 2.0</b></p> <p>6.23 mm Diagonal 1920 x 1080 2.8 μm x 2.8 μm 30 fps @ 2MP USB 2.0</p> 
--	--	---



**Research**  
sCMOS technology delivers high QE, low noise and in formats up to 61.4mm x 61.4mm.

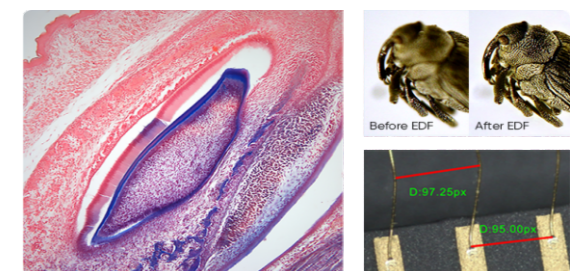
- > Fluorescence Microscopy
- > Biophysics
- > Physics ( Soft X-ray and EUV )
- > Astronomy



**Instrumentation (OEM)**  
High performance CMOS and sCMOS devices designed for integration and operation into small spaces.



**Industrial Inspection**  
Solutions for integration of advanced imaging technologies for challenging inspections.



**Microscopy**  
HDMI and CMOS Camera technology combined with capture and control software for stitching, focus enhancement, annotation and measurement.