

SENSORS/IMAGING



Photron's Fastcam SA5 is the world's fastest mega pixel high-speed digital camera available today, capable of a top speed of over one and a half million (1,550,000) frames per second (fps) at reduced resolution. The SA5's super light sensitive 12-bit CMOS sensor provides mega pixel resolution to 7,500 fps and can record with a global shutter time of 370 nanoseconds (ns), independent of the frame rate selected.

The SA5's interframe time of 223ns has made it the camera of choice for particle image velocimetry (PIV) applications, while its unmatched precision means it enjoys similar success with the digital image correlation (DIC) community.



Available with a sealed body to prevent ingress of dust or moisture, the Range Version option, like the actively cooled model, is available with 8GB, 16GB, and 32GB memory providing over 21 seconds record duration at 1,000 fps and full resolution.

Visit www.photron.com for more information.

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SENSORS/IMAGING



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SENSORS/IMAGING



Sensors Unlimited - Goodrich ISR Systems now offers the GA-1280J-15A - 1.3 Mpixel, InGaAs video camera with the highest sensitivity available in a military-hardened NIR-SWIR camera. The high-

resolution SWIR camera features 1280 x 1024 pixels, with 15µm pitch and 60Hz full frame rate. Compact (less than 4.3 cubic in.) and lightweight (less than 125g), the camera easily fits on-board most UAS or UGS hand-held and mobile surveillance systems. The camera is also available in an OEM model for integration into higher-level systems.

Two versions are available: one operates in the shortwave infrared from 0.9µm to 1.7µm spectral range; the other offers extended NIR-SWIR range from 0.7µm to 1.7µm. The cameras have no mechanical shutters and can image through fog, smoke, haze, or dusty conditions. From low light to daylight, the ruggedized, solid-state SWIR cameras are ideal for persistent surveillance and other military, aerospace, and marine operations.



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SOFTWARE



Mician is a leading developer of EM software tools for passive microwave components, horn antennas, and feed networks. Mician's signature product µWave Wizard combines the flexibility of 2D/3D FEM with the speed and accuracy of traditional Mode Matching techniques. The benefit of using Mode Matching lies in its ability to perform and combine sub-circuit type full wave simulations, in conjunction with full parameterization of structural geometries for use with our built-in optimizers. The fast, easy composition of complex RF structures using basic building blocks eliminates the need for creating a full-up 3D model of the entire structure and speeds up the development process enormously, thereby significantly reducing cycle time. In addition to its fast and powerful numerical methods, µWave Wizard offers an appealing and ergonomic GUI that enables flexibility and openness including CAD export formats interfacing with most mechanical design tools.

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