

High intensity flash for freezing motion in ballistic applications

Specialised Imaging

announce the **SI-Monoflash** – a new **high intensity short duration flash** designed to freeze motion in aeroballistic applications.

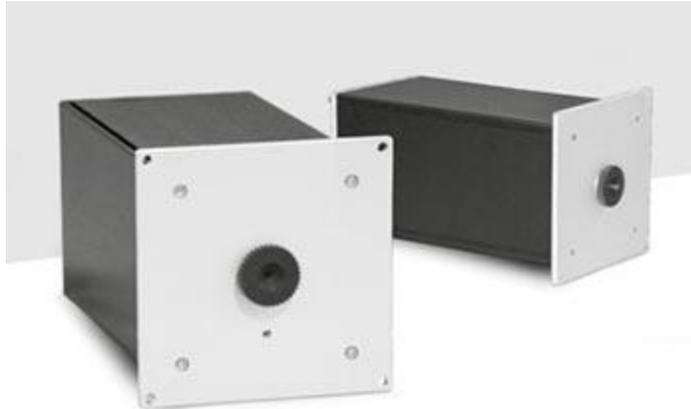


Image captions: A: SI-Monoflash high intensity, short duration flash units

Evaluating the aerodynamic profile

of a hypersonic projectile requires multiple ultra-high camera stations positioned along the flight path. To arrest image motion typically requires exposure time of just a few hundreds of nanoseconds' duration.

Incorporating a short duration

high-intensity illumination source into the testing set-up allows the use of standard off the shelf, self-triggerable single shot cameras. The SI-Monoflash spark source will emit a single high energy light pulse with a duration of typically 300ns. This single spark emission will freeze the motion of fast-moving objects.

The SI-Monoflash

is designed use in a shadowgraph system, where the light is pointed at a retroreflective screen. The captured image will show air turbulence from edges and surface of the projectile as well as the Mach cone. This enables measurement of instantaneous velocities. The unit can be triggered from a signal TTL signal and be daisy chain together for power control and monitoring.

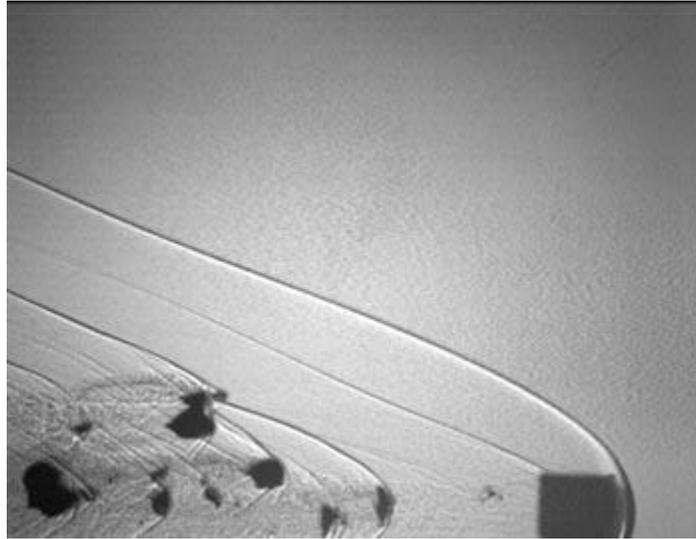


Image captions: B: Shadowgraph image produced using the SI-Monoflash.

The SI-Monoflash

is fully compatible with the current range of Specialised Imaging products including SIM series ultra-fast framing camera, Kirana high speed video camera and the TCAM shadowgraph camera.

For further information

please visit <https://specialised-imaging.com/products/accessories/si-monoflash/> or contact Specialised Imaging on +44-1442-827728 (UK) / +1-951-296-6406 (USA) / +49-8141-666-8950 (Germany) / info@specialised-imaging.com.

Specialised Imaging Limited

is a dynamic company focusing on the design, manufacture, service and supply of ultra-high-speed imaging systems and components for industrial, defence, and scientific applications.

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