

Sydor Ballistic Imaging System



The Sydor Strobe Ballistic Imaging System is designed for multiple high speed imaging applications, at a cost effective price.

Used in conjunction with a commercial-off- the-shelf Machine Vision camera and Sydor's Trigger Circuit, the Strobe Ballistic Imaging System is a low cost method to image a high speed object in flight.

The system, designed for experimental flexibility, offers simple set up and installation backed by Sydor Instruments' service and support engineers.

PERFORMANCE PARAMETERS	Sydor Strobe Illuminator
Dual Mode	Alignment and Pulsing Modes
Wavelength	Customizable per requirements
Pulse Width	30ns Standard, Adjustable at Factory
Orientation	Front and Back Illumination
Operating Temperature	-40°C to +85°C
Repetition Rate	1 - 33 kHz
FOV	Customizable illumination area per requirements

Specifications subject to change.

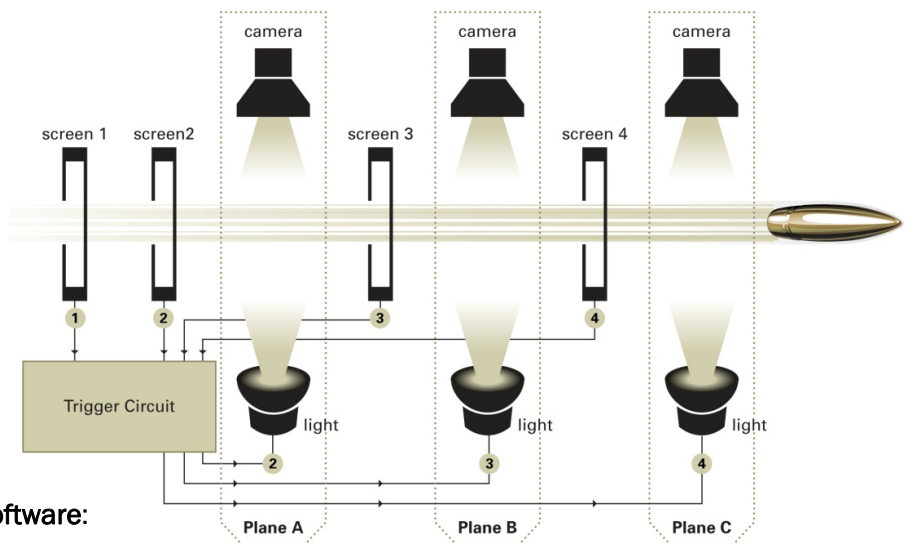
Ballistic Applications:

Capture images of a projectile in flight to determine the properties of the projectile such as:

- Rotation
- Trajectory
- Velocity
- Yaw

Suitable for any experiment where repeatable, accurate testing is critical, the Sydor Instruments system offers:

- Adjustable pulse from 12ns – 40ns
- High repetition rate
- Integrated pulse shaping circuit
- Customizable illumination area
- Multiple mounting points (1/4-20)



Sydor Instruments Timing Circuit and Software:

The trigger circuit calculates, in real time, the required individual timing to trigger and fire all strobes and cameras.

About Sydor Instruments:

Sydor Instruments is a comprehensive diagnostics solution provider. We provide customers with custom diagnostics and ultrafast imaging systems for a variety of applications in science and industry. Sydor Instruments specializes in image acquisition systems where the highest resolution and accuracy is required.