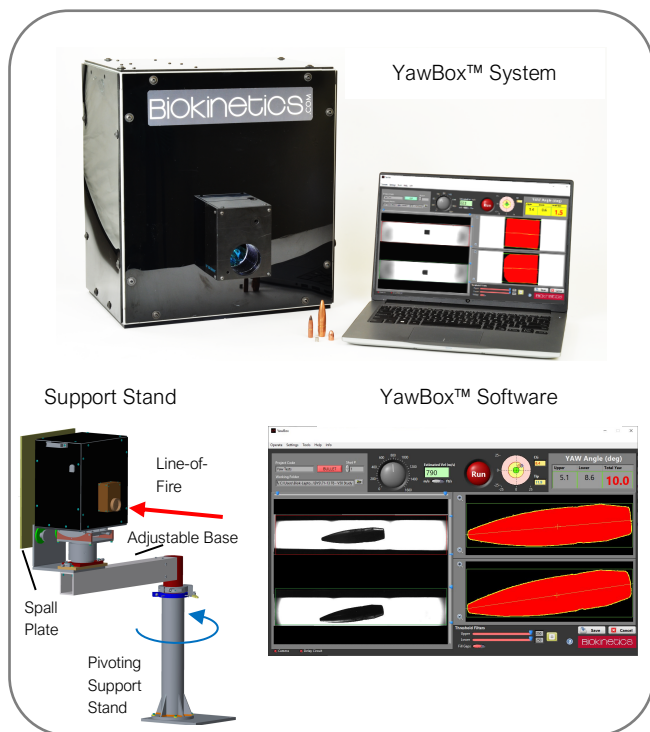


YawBox™ - Ballistics Yaw Sensor with Support Stand

Yaw and position measurement of ballistic projectiles and fragments



- Measures the yaw angle of bullets and fragment simulating projectiles (2-64 gr) relative to the line-of-fire better than $\pm 0.5^\circ$.
- Indicates the location of the projectile tip and centroid relative to the line-of-fire.
- Custom software instantly calculates component and resultant yaw angles without the need for templates.
- Measurements can be taken as close as 10 cm (4 in) from the target with protection from spall.
- 50-75 mm (2-3 in) diameter opening with integrated high-definition light screen and external trigger output.
- Floor mounted support stand allows the YawBox™ to be moved out of the way for accessing target area. Micro-adjust support base has 4 axes for accurate setup. Available front/rear protective plates.
- Traceable to national standards to comply with quality management practices. Fully calibrated image capture area for correcting lens distortions.

Specifications

Speed Sensing:	150-1500 m/s 500-5000 ft/s	Projectile Speed Selection:	Selectable in steps of 1 m/s. No chronograph required.
Yaw Uncertainty*:	Bullets: $\pm 0.20^\circ$ (typical for 9 mm FMJ) FSP/RCC: $\pm 0.46^\circ$ (typical for 17 gr FSP) *Expanded uncertainty with a coverage factor of 2 (normally distributed with 95% coverage probability).	Compatible Projectiles:	Fragments: FSP, RCC from 2 to 64 grain Bullets: ≤ 50 caliber
Exposure Time:	>500 ns (1/2,000,000 s)	Light Source:	COB LED (white)
Software:	YawBox™ software for Windows OS	Computer and Interface:	PC Computer with Windows 11 and GigE adapter.
Sensors:	Camera: CMOS, monochrome, 5 Megapixel Trigger: High-definition IR LED, external output	Part Numbers:	YawBox™ with adjustable base: BYS-002 Support stand: BYSS-002

Physical and Electrical

Dimensions:	YawBox™ with adjustable base: W 362 x D 260 x H 587 mm, 22 kg YawBox™ with stand, base and spall plate: W 1035 x D 406 x H 1355 mm, 66 kg.	Placement and Targeting:	Can be placed 10 cm from target. Spall protection may be required. 50 mm (2 in) diameter entry opening.
Alignment:	Integrated alignment gauge requires in-bore laser.	Electrical:	120 VAC @ 60 Hz / 240 VAC @ 50 Hz 100 W max.

Warranty

All components:	1 year limited
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(All specifications are subject to change)