SYDOR TECHNOLOGIES

BIOKINETICS BALLISTIC LOAD SENDING HEADFORM

COMPLEX MEASUREMENTS—CRITICAL RESULTS

FEATURES

- Head force transmission measured with 7 force sensors
- Includes neck, base, junction boxes, rugged portable case, mounted electronics & cables
- Software measures and outputs peak total force, individual force, avg. force, impulse, duration, and center of pressure location

APPLICATIONS

- Ballistic Helmet Testing
- Ammunition Safety Evaluation
- Head Injury Research
- Impact Testing for Body Armor

ABOUT THE BIOKINETICS BALLISTIC LOAD SENSING HEADFORM

The Ballistic Load Sensing Headform (BLSH) was developed to evaluate ballistic behind armor effects of ballistic helmets and can also be used to assess blunt force trauma from a host of generalized head strikes (i.e. less-lethal weapons, blunt force impacts). The impact force of the striking shell on the skull is measured with an array of seven sensors using custom software and compared with injury risk criteria. A range of headforms allow for impacts to the front, rear, left, right and crown locations and come in a variety of sizes. A penetration headform is also offered for V50 assessment and offers proper helmet support and standoff as well as jaw and nape features for attaching the retention system.

PRODUCT SPECIFICATIONS

- Sensor: Uniaxial, piezo-electric 22 kN max. each, <30 kHz
- Sensor Layout: 7 Sensors
- Data Collection: 16 ch at 100 kHz synchronous ±10 V input / 16 bit
- Data Conditioning: 30 kHz, 4-pole Butterworth
- Software: Biokinetics' BLSH Software Output: peak, avg. and individual forces, impulse, duration, center of pressure
- Headforms: ISO type, ~5 kgs (11.0 lbs), various headform sizes
- Support Base (W x D x H): 385 x 405 x 505 mm (15.2" x 15.9" x 19.9") without headform, 29 kg (63.9 lbs)
- Electronics Cabinet (W x D x H): 686 x 956 x 473 mm (27.0" x 37.6" x 18.6"), 40 kg (88.2 lbs.)
- Electrical: 120 VAC @ 60 Hz / 240 VAC @ 50 Hz 800 W min.

Biokinetics

Sydor Technologies is a proud distributor for Biokinetics

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