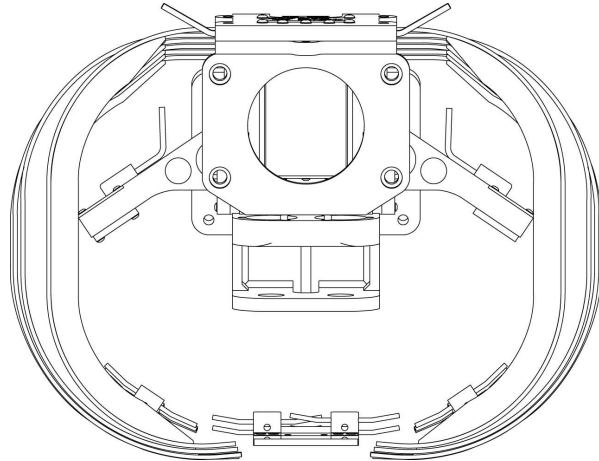
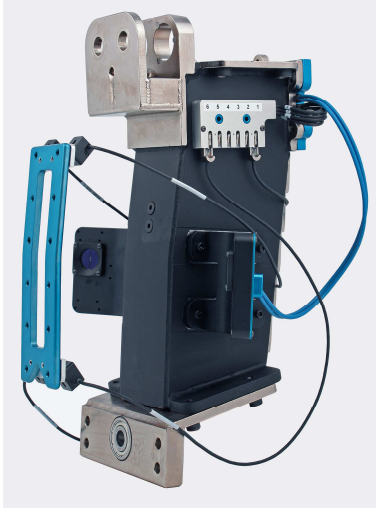


H3-50th Male RibEye™

Model 7800

ATD Thorax Displacement Technology for the H3-50th Male



Advantages of RibEye™ for Measuring ATD Thorax Displacement

- Multiple Point Measurement (up to 12 points @10kHz) – captures linear & oblique load conditions
- Multiple Axis – capable of measuring X and Y axis position from each point
- Non-Contact – no mechanical linkages between spine box & ribs
- Simple installation for LEDs and light sensors
- Calibration of optical photo sensors with precision fixture
- Can be interfaced with existing data acquisition systems
- Meets SAE J211-1 (July 2007) and ISO 6487-2000 specifications

Measurement

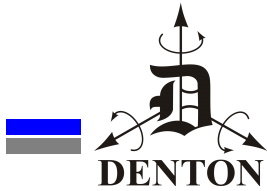
- Accuracy = ± 0.2 mm typical; ± 1 mm maximum error
- X Axis up to 85 mm of chest compression
- Y Axis ± 90 mm from the center of the spine
- Z Axis range from top rib to bottom rib
- Sample rate 10 kHz per LED measurement point
- Acquisition time: 30,000 ms (30 seconds) in DRAM, 2 seconds in flash memory (500 ms pre-trigger, 1500 ms post-trigger)

Temperature Range

- Maximum accuracy: 65° - 85°F (18° - 29°C)
- Operating range: 0° - 100°F (-18° - 38°C)

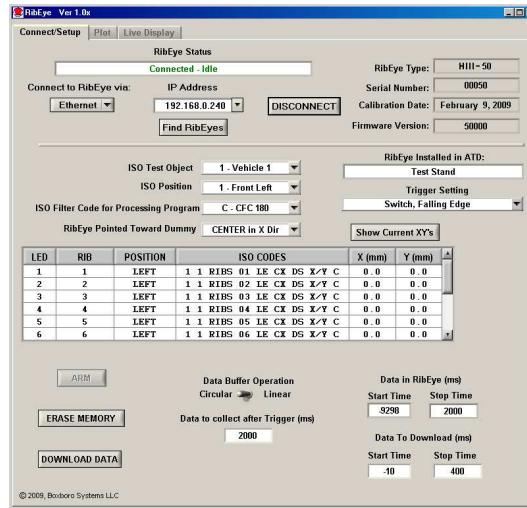
Creating the Standard in Safety Measurement

Denton ATD, Inc. · 2967 Waterview Drive · Rochester Hills, MI 48309

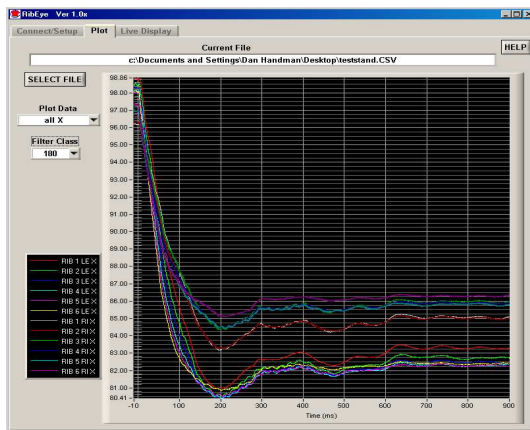


H3-50th Male RibEye™

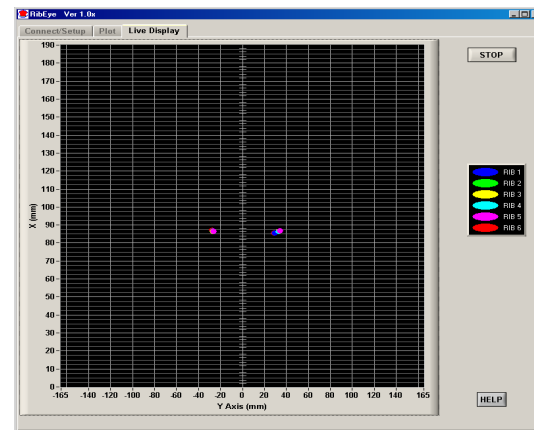
Model 7800



RibEye™ Control Software Main Screen



Plot Screen



Live Display Screen

Components

- 12 Light Emitting Diodes (LEDs), X and Y position data reported for all points
- 2 Optical Sensor Heads (mounted to the spine box) derive the position of the LEDs
- Controller Assembly mounted in the spine box
- 2 LED Connector Blocks mounted on the spine box
- Interface Box (power, trigger, communications and arming) located externally
- PC based Control Software
- Modified dummy spine box included (Use Model 7800-MOD for customer supplied spine box)
- Communication requirement: 10/100 Mbs Ethernet (RJ45 jack)
- Power requirement: 12-36 VDC, 8.3 W (collecting data, typical), 5.3 W (idle), 12.3 W (max)
- PC and Power supply not included

US Patent Number 7508530 — Boxboro Systems