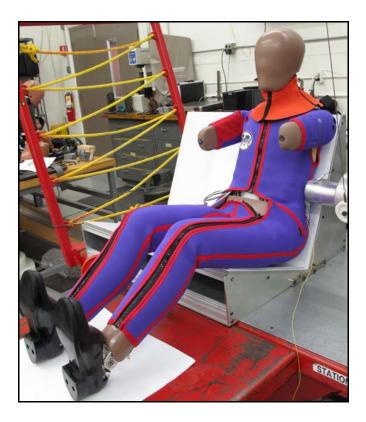
BOXBORO s y s t e m s

WorldSID ATD – 5th Female RibEye[™] A Better Way to Measure Thorax Displacement

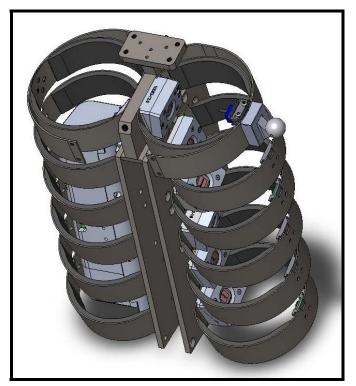


Measurement Capabilities

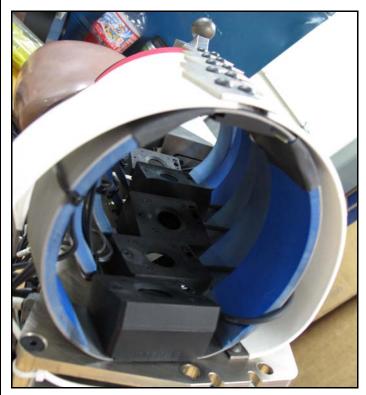
- Accuracy
 For Y and Z data:
 <u>+</u> 0.2 mm typical
 <u>+</u> 1 mm max. error
 For X data, max. error < 1.5 mm</p>
- Maximum range X axis: <u>+</u> 120 mm fore/aft Y axis: 67 mm chest compression Z axis: 80 mm up, 65 mm down
- Acquisition time @ 10 kHz sample rate 25,000 ms (25 seconds) in RAM 1.7 seconds in flash memory
- Temperature range Operating, -18°-38°C (0°-100°F) Max. accuracy, 18°-24°C (65°-75°F)

RibEye Advantages

- Multiple point measurement: 18 points @ 10 kHz sample rate, captures linear and oblique loads
- Six-LED version also available
- Multiple-axis: measures X, Y and Z positions for each LED
- Non-contact: no mechanical linkages between spine and ribs
- Mounts to existing holes in spine and ribs no modifications to dummy
- Interfaces with existing data acquisition systems: open protocol for RibEye operation by DAS software
- Meets ISO 6487-2000 and SAE J211 specifications



WorldSID 5th Female RibEye Thorax



RibEye Sensors



RibEye LEDs

More information

- PC-based control software exports data in Diadem, ISO, or CSV formats
- Power requirement: 12-36 Volts DC
 8 W (idle)
 12 W (data acquisition)
 20 W (max.)
- U.S. Patent Number 7508530
- For more data, please see our website literature, including user's manuals and technical conference papers about third-party testing using the RibEye

www.boxborosystems.com

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Connect/Setup Plot	Live Display	Export		12
RibEye Status Connected - Idle RibEye Type: WorldSID Male				
	Connect	Kibeje type.		
Connect to RibEye via: IP Address			Serial Number: 112	
Ethernet	▼ 192.	.168.0.237 V DISCONNE	ECT Calibration Date: 29 Nov 2012]
	Fin	Firmware Version: WS50BS001]	
			RibEye Installed in ATD:	
RibEye Pointe	ed Toward Dun	wsid 50th #2		
			Trigger Setting	
ISO Test Object 1 - Vehicle 1 💌			Rising Edge 💌	
	ISO Positi	on 1 - Front Left 💌	Show Current XYZ's	
LED RIB	POSITION	ISO CODES	X (mm) Y (mm) Z (mm) 🔺	
1 1	REAR	1 1 SHRI OO RE WS DS XY	Z -58.8 -77.1 -52.3	
2 1	MIDDLE	1 1 SHRI 00 MI WS DS XY	Z –28.9 –92.3 –54.0	
3 1	FRONT	1 1 SHRI 00 FR VS DS XY	Z 23.4 -77.8 -60.0	
4 2	REAR	1 1 THRI 01 RE WS DS XY		
5 2	MIDDLE	1 1 THRI 01 MI WS DS XY		
6 2	FRONT	1 1 THRI 01 FR WS DS XY	Z 45.2 -94.2 -2.8 T	
ARM ERASE MEMORY DOWNLOAD DATA	, ,	Data Buffer Operation Circular 🌒 Linear Data to collect after Trigger (ms) 2000	Data in RibEye (ms) Start Time Stop Time -200 1500 Data To Download (ms) Start Time Stop Time -10 400	
© 2012, Boxboro Systems LLC			-10 400	