

## Whole-Body Simulator MATT-PB



The Whole-Body Simulator (WBS) MATT-PB is a rugged, realistic full body trainer for the treatment of severe trauma. Purpose-built for field exercises and for use in any weather or environment, the WBS MATT-PB offers realistic leg movement and lifelike arterial bleeding that deliver ultra-high-fidelity training for a truly immersive learning experience. It also incorporates pulses, breathing, and real-time feedback through our long-range remote control. They can physically locate both radial and carotid pulses, assess breathing patterns and use this information to perform appropriate interventions.

### Rugged, Durable and Reliable

Each TraumaFX product is designed from the ground up for ruggedness and durability with careful consideration of materials and manufacturing processes to create products that last. They are water resistant and can be used in nearly any weather condition or environment, and can be transported in any vehicle or aircraft to ensure the most authentic training experience.

### Remote Controlled with Real-time Sensor Data

All TraumaFX high-fidelity simulators are operated by a long-range RC controller which includes real-time data streaming to monitor medical interventions. Easy to use, menu-driven software takes only minutes to learn and sensor data is immediately displayed on the main control screen for quick reference. The display shows key vitals and provides instructors with instant data on the effectiveness of student interventions such as tourniquet application, wound hemostasis, airway intervention, needle decompression, and chest tube placement.



#### Mix-N-Match

TraumaFX upper and lower trainers can be combined in any configuration to increase training capabilities

DATA SHEET

# TRAUMA F/X®

## Key Benefits of TraumaFX WBS-MATT-PB

- Multiple sensors relay results to trainer in real-time, taking the guesswork out of simulation
- Simulated breathing and coordinated breath sounds in 4 quadrants
- Palpable radial and carotid pulse points
- Simulates tension pneumothorax in either side with appropriate physiologic cues
- Flexible jaw with internal tracheal landmarks for orotracheal intubation (sensor)
- Bilateral chest tube insertion sites with replaceable, multiple use skin plugs
- Oral airway cavity (with teeth and tongue) for oropharyngeal intubation (sensor)
- Trainer-selectable airway obstruction at the nose or throat to cue for surgical cric
- Simulated cricothyroidotomy with larynx, and single and multiple use replaceable skin plugs
- Realistic manubrium allows intraosseous (I/O) training with fluid infusion
- Needle decompression (full size 3.25" 14 gauge needle) with air release and sensor feedback with replaceable multi-use skin plugs and pleural membranes (sensor)
- 2-way Communication (TWC) audio system allows trainer to speak through the simulator
- Double amputation with multiple tourniquet points that accurately simulate pulse and arterial bleeding
- Amputations require proper tourniquet application or manual pressure to occlude bleeding
- Lifelike leg movement, remote controlled using practical and durable special effects animatronics technology
- Specially formulated synthetic tissue with unparalleled realism and durability providing visual and tactile stimuli
- Instantaneous feedback provided through proprietary remote control (RC) transmitter with extended operating range
- Can be used with human actors
- Crepitus to cue for crushed pelvis injury
- Scrotal avulsion
- Water resistant
- Easy to clean and maintain after use
- Optional interchangeable priapism

## Remote Control with Sensor Feedback

The radio-frequency (RC) remote control offers full system operation from up to 200 yards away and includes real-time data streaming for sensor feedback and vitals data.



## TraumaFX Multiple Amputation Trauma Trainer (MATT)® Awards



AMSO Award



Governors Award



SBIR Award



Modeling & Simulation  
Training Team Award

### Contract Vehicles:

GSA: GS-07F-063DA  
DLA ECAT: SPE2DH-18-D-0008  
PEO STRI TATT II: W900KK-19-D-0005  
PEO STRI VPSS: W900KK-18-D-0012  
NATO Logistics Stock Exchange

### All TraumaFX Products are handcrafted in the USA

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