

## Multiple Amputation Trauma Trainer (MATT)®

The Multiple Amputation Trauma Trainer (MATT)® is a ruggedized, tetherless, remote controlled trauma trainer that delivers high fidelity simulations of lower body injuries commonly caused by IEDs and other explosive devices. Jointly developed by KGS and the U.S. Army Research Laboratory Simulation and Training Technology Center (ARL-STTC), MATT employs state-of-the-art special effects materials and technologies to deliver incredibly realistic visual and tactile stimuli with lifelike response to treatment. State of the art sensor technology provides real-time feedback that takes the guesswork out of trauma simulation training.

### 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 telemetry 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

# Key Benefits of TraumaFX MATT

- Double amputation with multiple tourniquet points that accurately simulate pulse and arterial bleeding
- Advanced sensor technology provides trainers/learners with instantaneous feedback of hemostasis, time to occlude bleeding, and volume of blood loss for after action reporting (AAR)
- 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 and Sensor Features

The RC remote control offers an LCD display screen for ease of operations. It provides full system operation from up to 200 yards away and includes real-time telemetry for sensor feedback and vitals data.

### Sensor and vitals data for MATT include:

- Right leg amputation bleeding/occluded (proper tourniquet application)
- Left leg amputation bleeding/occluded (proper tourniquet application)
- Blood loss (volume)
- Heart rate
- Blood pressure
- Leg movement manual/auto
- Patient alive/expired



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



AMSO Award



Governors Award



SBIR Award



Modeling & Simulation  
Training Team Award

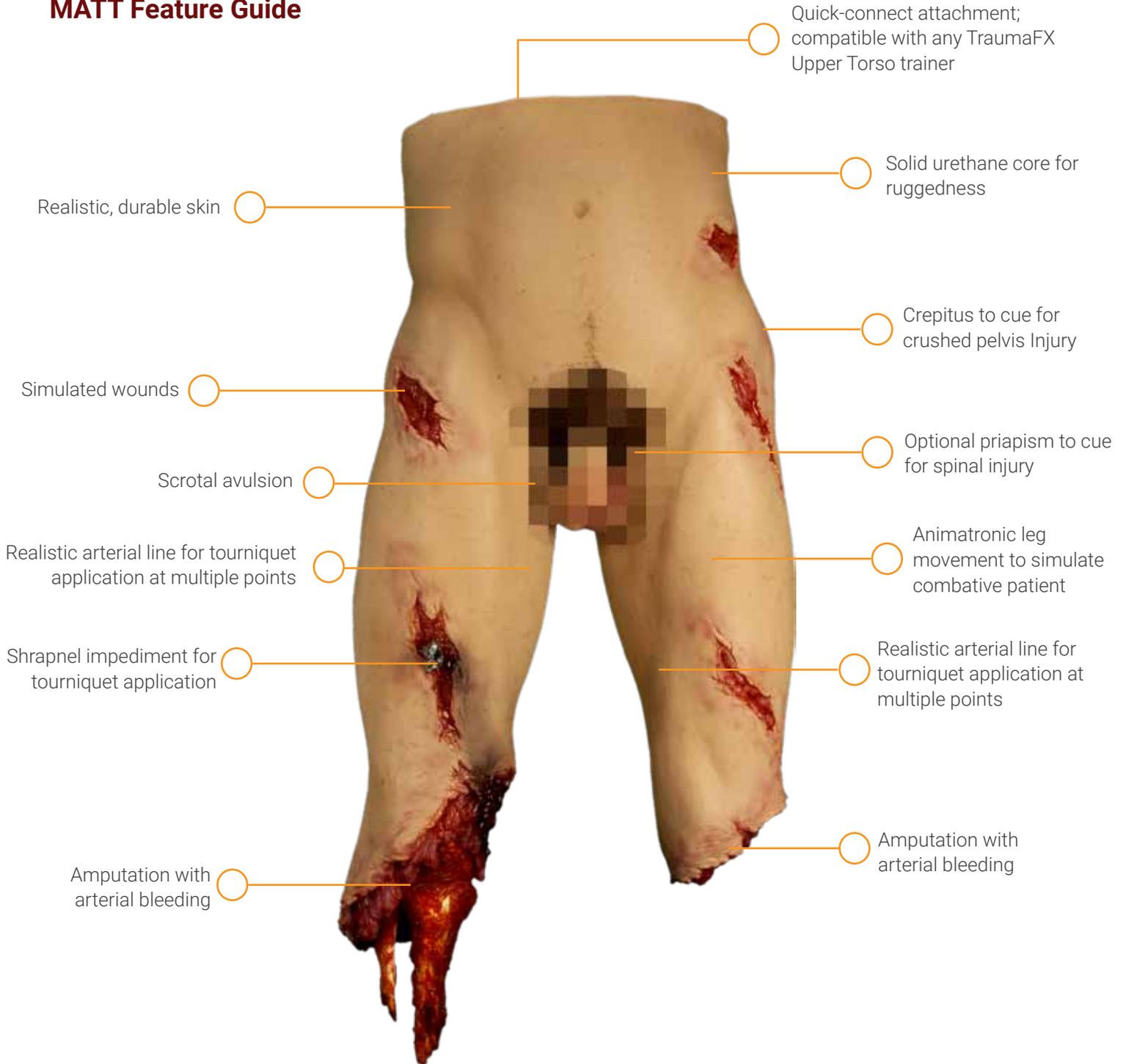
### Contract Vehicles:

GSA: GS-07F-063DA

DLA ECAT: SPE2DH-14-D-0009

PEO STRI: W900KK-14-D-0004

## MATT Feature Guide



**All TraumaFX Products are handcrafted in the USA**

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