

AirwayPlus Lifecast Pulses/Breathing with Amputation (APL-PBA)

The TraumaFX® AirwayPlus Lifecast - Pulses/Breathing with Amputation (APL-PBA) medical simulator was created specifically to address the treatment of traumatic upper body injuries and incorporates pulses, breathing, amputated arm with arterial bleeding, and real-time feedback to create a uniquely realistic training experience for Medics and First Responders. APL-PBA is constructed of a durable urethane core and specially formulated, life-like silicone skin, and is designed to operate in inhospitable conditions and tough, outdoor scenarios. It is an extremely effective multipurpose training tool allowing learners to perform critical life-saving tasks that include maintaining an airway, needle decompression, cricothyroidotomy, intraosseous infusion, and chest tube insertion.

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 APL-PBA

- Multiple sensors provide trainers/learners with instantaneous feedback for After Action Reporting (AAR) via the Ruggedized Remote Control (RC)
- Traumatic arm amputation with arterial bleeding at the right elbow for realistic tourniquet application
- Simulated breathing and coordinated breath sounds in 4 quadrants with palpable radial and carotid pulse points
- Simulated tension pneumothorax on either side with appropriate physiologic cues
- 2-way communication audio system allows trainer to speak and hear through the simulator
- Infusible intraosseous (I/O) trainer at the humerus
- Bilateral chest tube insertion sites with replaceable, multiple use skin plugs
- Flexible jaw with internal tracheal landmarks for orotracheal intubation
- Eyes can be manually rotated to simulate a dilated or pinpoint pupil
- Oral airway cavity (with teeth and tongue) for oropharyngeal intubation
- Nasal passageways for nasopharyngeal intubation
- User selectable airway obstruction at the nose or throat to cue for surgical cric
- Simulated cricothyroidotomy with larynx with replaceable and skin plugs
- Reinforced silicone arms with articulating shoulders and full arm rotation
- Realistic manubrium allows intraosseous (I/O) training with fluid infusion
- Interactive needle decompression training sites (full size 3.25" 14 gauge needle with air release)
- IV training site with flash cue at the arm
- 90-degree waist adapter allows simulator to be placed in sitting position when connected to lower body
- Simulated gunshot entrance and exit wounds - front and back
- Water resistant
- Easy to clean and maintain after use
- Optional amputation or burn arms

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 the APL-PBA includes:

- Respiratory status (regular, tension pneumothorax, stopped)
- Bleeding sensor for tourniquet (active/occluded)
- Blood loss
- Respiration rate
- Pulse rate
- Blood pressure
- Airway status
- Alert, conscious, unconscious, anxious
- Patient alive/expired
- Intubation sensor (tracheal, esophageal, RMS, time)
- Needle decompression sensor (success and time)



TraumaFX Multiple Amputation Trauma Trainer (MATT)® Awards



AMSO Award



Governors Award



SBIR Award



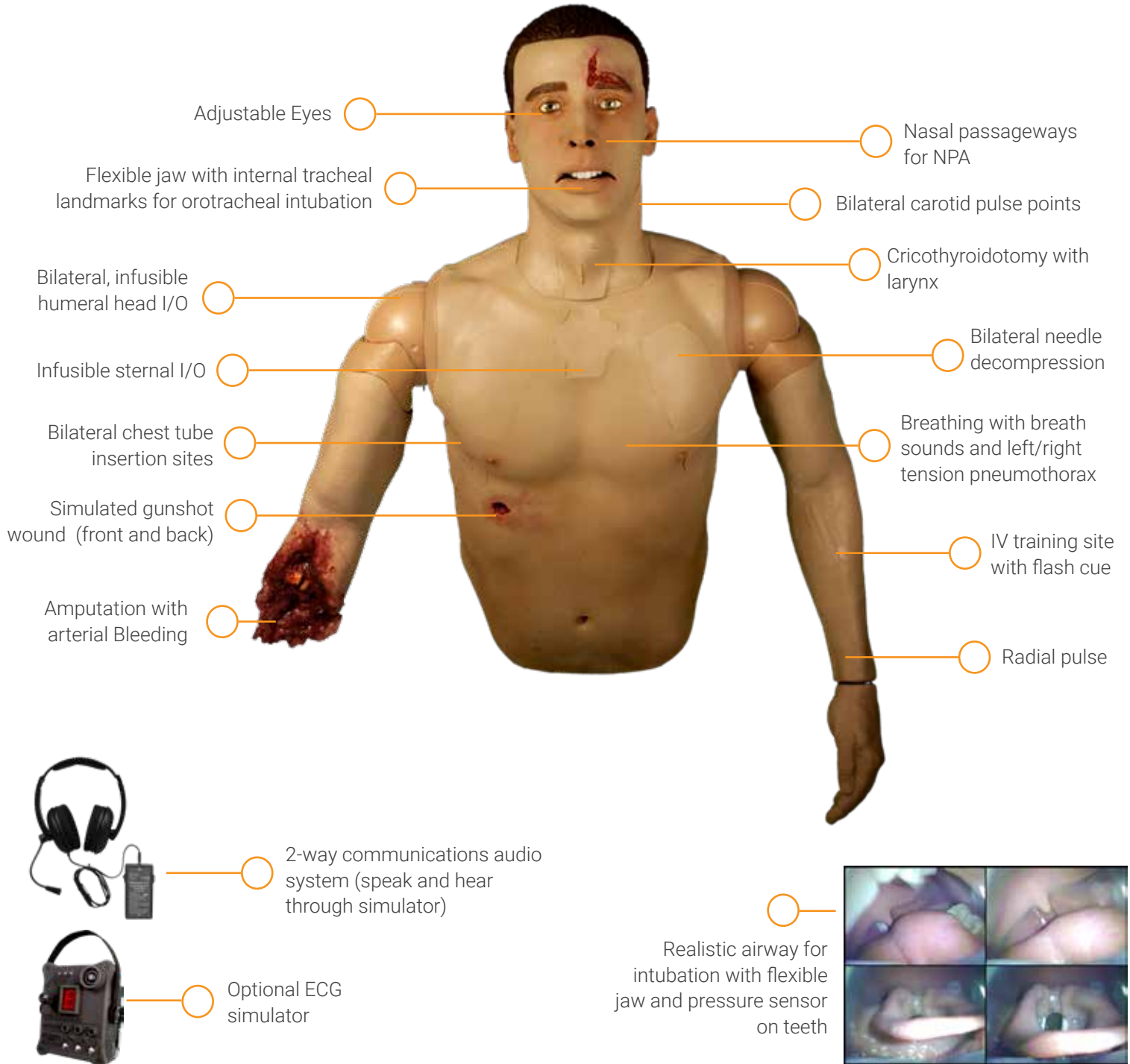
Modeling & Simulation
Training Team Award

Contract Vehicles:

GSA: GS-07F-063DA
DLA ECAT: SPE2DH-18-D-0008
PEO STRI TATT: W900KK-14-D-0004
PEO STRI VPSS: W900KK-18-D-0012

TRAUMA F/X®

APL-PBA Feature Guide



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