



FATS® 300MIL IMMERSIVE VIRTUAL TRAINING SYSTEM



Meggitt Training Systems



Meggitt's FATS® 300MIL provides a 300° immersive training environment with high-definition and 5.1 surround sound.

Meggitt enhances the FATS® line of virtual systems with the introduction of fully immersive training. The FATS® 300MIL brings a 300° field of view to the user, providing realistic, engaging training. With high-definition on every screen and 5.1 surround sound, the users will feel like they're in the action, facing decision making pressures while maintaining situational awareness. Available for defense forces and law enforcement agencies, current FATS 100 systems can be easily upgraded to a FATS 300MIL.

System Components

The FATS 300MIL delivers true-to-life, comprehensive training and includes:

- **Screens** – 5 borderless flat screens spanning 5 of the 6 sides of a hexagon. The 6th side is used as the entry into the FATS 300MIL. Each screen provides 150" x 84" (16:9 aspect ratio) borderless projection surface.
- **Hit Detection System** – 5 digital cameras interface directly to the same Off-CPU real-time (OCR) processor used by the FATS® 100LE and MIL systems for an easy upgrade path.
- **Projectors** – Ultra short throw projectors provide the user greater freedom of movement within the training space while displaying stunning visuals in a 300° environment.
- **Low-Light Subsystem (optional)** – Allows users to practice in simulated low-light conditions with both hand-held and weapon-mounted flashlights.
- **Rack** – The FATS 300MIL uses the same transportable rack as the FATS 100 line.



Judgmental training highlights verbal de-escalation with lethal/less-lethal force options

- **Surround Sound** – The self-powered audio system plays scenarios in 5.1 surround sound. Using the directional sound effects board, the instructor can add in unsettling sounds from any direction, including a barking dog, crying baby, gunshots and more to elevate situational awareness.

Supported Gun/Ammo Types

The FATS 300MIL supports up to 20 simulated weapons, including FATS weapons and ammunition types. Up to 4 simulated weapons can be assigned to a single user. These include:

- Rifles
- Pistols
- Shotgun
- Less-lethal – OC spray and TASER® (supported in Judgmental training only)

Training Modes

The FATS 300MIL supports 3D, Marksmanship, Judgmental and Collective training.

- **Marksmanship** – Displaying a vivid, realistic 3D environment, the FATS 300MIL supports 3D targets, including 3D paper targets.
- **Judgmental** – High-definition imagery is projected on every screen. As the scenario eye point moves, all screens reflect the motion. This provides an amazing immersive experience that highlights realistic conflict situations and awareness in a training environment.
- **Collective** – Using third-party game engines for squad level instruction provides flexible simulation solutions. Utilizing scenario training and mission rehearsal, the stunning realism of collective training

prepares trainees on effective decision-making within a safe, non-lethal, immersive environment. While virtual game engines are typically used for Virtual and Constructive training, Collective training can now be incorporated with Meggitt's small arms training solution.

Courseware

The FATS 300MIL comes with a set of training courseware.

- **Marksmanship** – Using built-in authoring, the instructor can create realistic specialized courses of fire, using assets (terrains and targets) available on the system. Authoring training is included with the purchase of the FATS 300MIL.
- **Judgmental** – The system comes pre-loaded with a variety of immersive training HD video scenarios. De-escalation and use of

force training is highlighted, from less-lethal (OC spray, TASER®) to lethal force.

- **Collective** – The system provides multi-screen training with panoramic views, using existing weapons. Operating with new or existing courseware in Collective provides enhanced, detailed terrain and thorough, current 3D models (~ 9,000 models) with artificial intelligence and automatic pathfinding.

High-Fidelity Ballistics

Meggitt's FATS 300MIL utilizes the same high-fidelity ballistic engine validated by the US Army, US Marine Corps and other military customers.

Size of Screen

Large 16'X9' screens provide a wider viewing area with a small footprint (25'X25'). The FATS 300MIL fits into almost any space with at least a 10' tall ceiling.

Options

The following options are available to compliment the FATS 300MIL:

- **Lookback** – The instructor/operator sees the trainee from a front screen perspective. From there, they can record a video shown in After Action Review (AAR) as a Picture-in-Picture (PIP). Viewed on the main screen, the instructor can help the student through visual coaching.

- **Additional Flashlight** – One handheld flashlight is supplied with the system. Additional flashlights (handheld or weapon-mounted) can be added as options with no quantity limitations.

- **Hostile Fire System** – Fires foam pellets to simulate hostile fire and force the trainee(s) to use cover.



Marksmanship training and shot analysis identifies errors in shooting fundamentals