Marathon Targets



for live-fire moving marksmanship training



Marathon smart targets are intelligent armoured robots which can move freely across the entire training environment.

This unique system was developed in conjunction with the Australian Department of Defence to facilitate challenging, realistic training.

A team of Marathon smart targets can execute complex preplanned scenarios, moving in and out of buildings and out of sight of instructors, going anywhere a person could go.

The targets are designed to be human-like in size, shape, speed and behaviour. When a target is shot, the rest of the targets respond by scattering and running for cover.

The system can run by day and by night, in all weather, for hours at a time.

Features

Responsive

When a target is shot, it provides instant visual feedback by stopping and dropping its mannequin. Simultaneously, it sends a message to other targets, who scatter and run for cover.

Challenging

The targets are human-like in size, shape, and speed. Marathon smart targets allow soldiers to train the way they fight: against unpredictable moving targets.

Labour-Saving

A single instructor can conduct complex long-duration scenarios with multiple targets. No need to use a joystick – just give the command and off they go, following a pre-orchestrated or auto-generated scenario.

Minimum Infrastructure

The system operates without expensive infrastructure such as rails or magnets embedded in the ground. Smart targets can be added to existing facilities, or transported to new ones.

Flexible Training

The system can be used for intensive training on specific skills or long-term endurance exercises, with any number of targets. With no constraints on motion, instructors can generate an infinite number of scenarios.



Target Technology

Command & Control

A choice of stationary and rugged mobile computers with a modern Graphical User Interface to create and run training scenarios.

The user interface provides complete control of motion patterns, variable speed, stopand-go, hit reaction, etc.

Training scenarios can easily mix T20s and T40s.



On-Board Software

State-of-the-art robotic software controls targets' motion, individually and as a group. Artificial intelligence generates human-like behaviours which react quickly to unexpected situations.

Wheels

Field-replaceable with puncture-proof tyres. Armoured hub cap covers for extra protection.



Marathon targets leverage proven technology for mobility. The Segway Robotic Mobility Platform provides fast human-like motion and outstanding endurance. Powerful motors propel the target at human running speed.















Specifications





Target Realism		
Human shape	***	***
Human motion	***	***
Silent motion	***	***
Human running speed	***	***
Performance by Range & Terrain		
Doorways	***	***
Pavement	***	***
Packed dirt	***	***
Grass, loose dirt	* & &	***
Tall grass, short brush	* * * *	***
Sand, gravel	* * * *	***
Slopes	* * * *	***
Minor curbs & holes	* * * *	***
Dimensions & Weight		
Length	65 cm (26 in)	102 cm (40 in)
Width	65 cm (26 in)	88 cm (35 in)
Height	180 cm (5 ft 11 in)	
Weight	180 kg (400 lbs)	235 kg (520 lbs)
Mobility		
Maximum speed	12.5 km/h (7.8 mph)	18.0 km/h (11.2 mph)
Turning radius	0	
Battery Endurance		
Driving range	19-24 km (12-15 mi)	
Run time, stationary	24 hrs	
Recharge time, from empty	8 hrs	
Environmental		
Operating temperature	0-50 C (32-120 F)	
Waterproofness	Operates in heavy rain	

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