

# ZEN AUTOMATIC GRENADE LAUNCHER SIMULATOR (ZEN AGL Sim)



Zen AGL Sim offers complete solution to training of 30 mm Automatic Grenade Launcher crew in Infantry. The trainee in loop has the benefit of near-real environment of terrain, situation and the weapon. Application of advanced computer generated imaging technology and complex visualisation make the simulator based training realistic. This limits undue wear and tear of the weapon and cuts down expenditure of costly ammunition.

The indoor system has been designed for training in weapon handling, operation and gunnery. The simulator provides for engagement of multi profile targets namely static and moving in various modes e.g. direct, indirect and anti-aircraft role. The engagement practices can be carried out in different terrains and under varying weather conditions.

The simulator allows low-angle engagement of targets at ranges between 50 to 1730 metres and high-angle firing at targets between 1000 to 1730 metres. The simulator also has provision to launch the grenade with the help of launcher sight to a maximum distance of 800 metres. The exercises are tailor-made for Basic & Familiarisation purposes, Evaluation, Validation, Range Course etc. The scenario builder application software allows the instructor to create customised tactical exercises.

The AGL Section of an infantry battalion will require a two-lane AGL Sim to train cohesively. A basic two lane AGL Sim is scalable up to eight lanes to meet the requirements of training institutions.

The system comprises the following: -

- Instructor Console.
- Visual Module consisting of Projector and Display Screen.
- Camera.
- Replica AGL.
- Input-Output Box for each lane.
- Air Compressor Unit.
- Intercommunication Devices.
- Speakers.



Instructor Console consists of two computers loaded with Instructor Station, Input-Output, Visual Station, and Diagnostic & Calibration software. Instructor can start, pause, resume, monitor and stop an exercise from his console. Special features to record & replay the exercises for After Action Review and print the customizable performance reports have also been incorporated.

## Features:

Zen AGL Sim is pre-loaded with Weapon Characteristic Data and the Range Table. Menu driven choice of rate of fire, type of ammunition, target profile, nature of practice, techniques of engagement etc make the system versatile. The salient features of the system are:-

- Library of responsive 3D human targets & vehicles, diverse operational terrain including plains, desert, semi-desert, jungle & mountainous and conventional scenarios with natural obstacles and built-up area.
- Environmental effects like weather effects day/night/light conditions & wind effects.
- Near-real weapon recoil and other effects of fire simulated.
- Programmable timed generation of effects of blasts with smoke.
- Includes Range Course and Night Firing with & without Sight PAG-17.
- Practices with Single Target, Group Target, Group Depth Targets and Moving Targets.
- Techniques of engagement include Lead Calculation for Moving Targets, Controlled Correction.
- Direct Fire, Use of Aiming Mark, Group Targets with 'Limiters'.
- Provides for calculation and display of Fire Planning Table (Fire Control Chart).
- Computer-based tutorials to familiarize trainees with the weapon.
- Allows integration of training videos specially prepared for AGL.



AGL firing on group targets using fixed limiters settings



Automatic Grenade Launcher Simulator

## ZEN TECHNOLOGIES LIMITED

B-42, Industrial Estate, Sanath Nagar  
Hyderabad - 500018, Telangana  
India

Phone: +91 40 2381 2894/4894/3294  
Fax : +91 40 2381 3694

Website: [www.zentechnologies.com](http://www.zentechnologies.com)  
E-Mail : [mktg@zentechnologies.com](mailto:mktg@zentechnologies.com)

