

BMP-2 Crew Simulator (FMS)

The BMP-2 Crew Simulator of the "Full Mission Simulator (FMS)" category is designed for individual training of individual BMP-2 crew members (commander, gunner, driver). It enables to move a substantial part of driver training from the real vehicle to the simulator due to its realism. The simulator is the part of the BMP-2 training solution and it can be used in the tactical training.

Training focus:

Training is focused on the development and improvement of proper routines and reactions of the individual crew members during driving, shooting and equipment handling and also on the improvement of crew co-ordination.

Training options:

Individual training

- basic and follow-on training of individual crew members (commander, gunner, driver)
- basic and follow-on BMP-2 crew training
- basic and continuing training with the motion platform - training on the simulator equipped with the motion platform with the six degrees of freedom is closer to reality and much more effective

Tactics training

- training mode supports training of the mechanized units on platoon, company and task-force levels (the configuration enables also individual training)

Developed skills:

Driver:

- driving in the terrain, in the training area with the obstacles, on the roads, in the urban areas, floatation, wading, driving in a contaminated area, night driving with lights or with the night-vision device, driving in a column in various weather conditions and during day/night time in operation with other crew members

Commander and gunner:

- training of co-operation between the commander and the gunner during target searching, identification, aiming and shooting
- handling and using of the observation devices
- weapon systems switching-on, switching-off, checking and operation
- other equipment operation: 902V system, communication system, stabilizer

Key benefits

- Comprehensive training management system with ability to operate in the tactics training mode



Technical description

The cabins made from metal is placed on motion platforms with 6 degrees of freedom. The workplaces are as much as close workplaces in the real vehicle, the handles are original. The cabins on motion platform are connected by the cables to the Instructor Operating Station (IOS) and to computing, visual, audio and communication systems.

Contents

- Driver cabin
- Gunner and commander cabin
- Motion platforms with 6 degrees of freedom for the driver and for the gunner and the commander
- Instructor Operating Station for complete administration, control and evaluation of the training
- Computing system of the simulator
- Communication system

Workplaces equipment

Driver workplace

- interior equipment with handles is as much as close to real vehicle equipment
- the video camera is mounted inside the cabin to capture the view of driver activities
- communication system

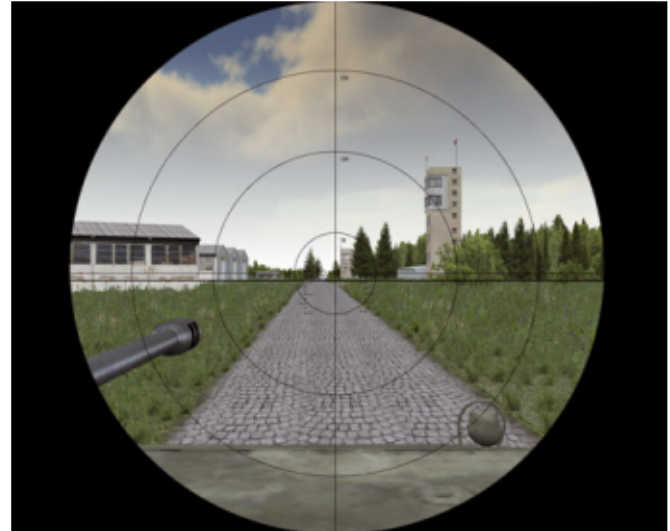
Commander and gunner workplace

- interior equipment with handles is close to real vehicle equipment
- the video camera is placed inside the cabin to view and record commander's and gunner's activities
- communication system

Instructor workplace

Instructor Operating Station enables complete training administration, control and evaluation

- selected views of the crew members
- 3D stealth view of an independent observer
- Computer Generated Forces (CGF) system with a map view
- crew camera system
- communication system with control panel
- training management system (TMS)
 - task preparation (scenarios, parameters, trainees etc.)
 - task course control (log recording, monitoring, task changes etc.)
 - task evaluation (analysis, rating, log replay etc.)



Technical parameters

Dimensions: (mm)

- driver cabin: height 1800 x length 2385 x width 1340
- commander's and gunner's cabin: height 2875 x length 2350 x width 2350
- Instructor Operating Station: height 1750 x length 1625 x width 1270
- rack: height 1800 x length 2385 x width

Weight:

- driver cabin: 450 kg
- commander's and gunner's cabin: 1200 kg
- driver motion platform: 500 kg
- commander and gunner motion platform 500 kg
- Instructor Operating Station: 250 kg
- rack: 197 kg