

BMP-2 Driver Simulator (FMS)

The BMP-2 Driving Simulator of the "Full Mission Simulator (FMS)" category is designed for individual training of the BMP-2 infantry fighting vehicle drivers.

It enables to move the substantial part of driver training from a real vehicle to the simulator due to its realism.

The simulator is a part of the BMP-2 training solution and can be used in tactical training using the DIS protocol or HLA.

Training focus:

The training is focused on gaining and improvement of the proper routines and reactions during BMP-2 driving and handling.

Training options:

Individual training

- basic and continuation training
- basic and continuation training with motion platform - training on the simulator equipped by the motion platform with six degrees of freedom is closer to reality and much more effective

Tactics training

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

Developed skills:

- 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 the column in various weather conditions and during day/night time in operation with other crew members

Key benefits

- Realism - handling, behaviour and perceptions like in a real BMP-2 vehicle
- Comprehensive training management system with ability to operate in the tactics training mode



Technical description

The driver cabin is made from metal and is deployed on motion platform with 6 degrees of freedom. The driver workplace is the same as a workplace in a real vehicle, the handles are original. The cabin on the motion platform is connected by the cables to Instructor Operating Station and to computing, visual, audio and communication systems.

Content

- Driver cabin
- Motion platform with 6 degrees of freedom
- Instructor Operating Station enabling training preparation, control and evaluation
- Computing system of the simulator
- Communication system

Workplaces equipment

Driver workplace

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

Instructor workplace

Instructor Operating Station enables complete training administration, control and evaluation

- monitors displaying activity and status of the simulation system
- communication system
- training management system (TMS)
 - task preparation (scenarios, parameters, trainees etc.)
 - task course control (logging, 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
- Instructor Operating Station: 1621 x 1255 x 1340mm
- rack: 1750 x 1000 x 800 mm

Weight:

- driver cabin 450 kg
- driver motion platform: 500 kg
- Instructor Operating Station: 250 kg
- rack: 197 kg



Software

- platform: PC
- operating system: Microsoft Windows
- environment: .NET Framework
- uses DirectX 9.0c

Hardware

- power supply: 230V 50Hz
- input: 2.5kW