

# Mi-171 FULL FLIGHT/FULL MISSION SIMULATOR

## FOR HELICOPTER CREW TRAINING

This Mi-171 Full Flight/Full Mission Simulator is built to the highest quality and certification standards providing all equipment and software support necessary for ground and flight operations training.



Simulation & Training Systems

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This Mi-171 Full Flight/Full Mission Simulator is built to the highest quality and certification standards providing all equipment and software support necessary for ground and flight operations training.



It provides for excellent flexibility in training of normal, abnormal, and emergency procedures as well as flight maneuvers for initial training, recurrent training and rating certification. In addition, full simulation of onboard weapons systems enables efficient training of tactical combat missions.

A 6 Degree of Freedom (6 DOF) Motion Platform coupled with a realistic Control Loading System (CLS) and vibrating seats provide real cues of motion for realistic training experience. Control feels, control forces and displacement characteristics correspond to that of the actual helicopter.

Dome-mounted Visual System is capable of producing daylight, twilight, and night scenes upon a 180 degree horizontal and 90 degree vertical field of view delivered by a 4-channel projection system.

The Instructor Operating Station (IOS) enables an instructor to quickly create any flight conditions, missions and scenarios as well as to control all major functions of the simulator.

### MAIN FEATURES:

- Original Mi-171 cockpit
- Original - reengineered instruments and control elements
- 6 DOF motion platform
- Vibrating seats
- Control Loading System (CLS)
- Host computer system
- Real or virtual digital 3D terrain
- Real time simulation SW
- Digital audio system
- Dome-mounted visual system with spherical screen - wide FOV of 180°x90°
- 4-channel projection system
- Full weapons simulation
- Computer Generated Forces (CGF)
- Night Vision Goggles (NVG) compatible
- Optional - sensors simulation
- Proven mathematical model
- Uninterrupted Power Supply (UPS)
- Instructor Operating Station (IOS)
- DIS/HLA compatible

### ACCURATE SIMULATION OF:

- Acceleration/deceleration
- Rate of climb/decent
- Engine speed (RPM)
- Maximum/minimum speed
- Longitudinal/lateral trim
- Longitudinal/lateral effectiveness
- Dynamic longitudinal/lateral stability
- Radio communication station
- Radio compass
- Radio altimeter
- VOR/DME-ILS
- Magnetic compass
- Marker radio set
- Long-range radio navigation system

### TRAINING FEATURES:

- Ab-initio training
- Type rating
- Recurrent training
- Mission training
- Cockpit procedures
- General flight training
- Instrument flying
- Visual flying
- MCC and MPL Capable
- Emergency procedures
- Tactical flight training
- Search and rescue training



### TRAINING TASKS AND CAPABILITIES:

- Vertical Takeoff
- Running Takeoff
- Hovering
- Landing
- Taxiing



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