



GOING FURTHER THAN THE FNPT II/MCC

Practical flight training civilian pilots is very expensive, and for many aviation enthusiasts high costs of license training may prove to be an insurmountable barrier. The main reason is the high cost of the operation of aircraft. The solution to this problem would be to replace a portion of practical exercises with training on the FNPT II class device.

Use of the FNPT II class devices allows not only the implementation of a part of practical work on the training device instead of on an aircraft or helicopter, but also provides a unique ability to practice emergency situations, which cannot be safely carried out during the actual flight. In addition, the training device offers extremely cheap (not involving a real aircraft) initial familiarization with the pilot's cockpit construction and deployment of flight instruments.

The source of extraordinary flexibility and financial efficiency of our devices is their ability to reconfigure. Within about 30 minutes two persons are able to turn the cabin replicating one type of an aircraft or a helicopter to another! In this way, our customers get the devices to simulate many different types of aircraft bearing only the single cost of all critical and the most expensive simulator components like a projection system, a control loading system (if in all configurations of the simulated aircraft are used similar control units) or the computer system. Each version of the cabin consists of a set of modules tailored especially for specific customer requirements. The set includes, among others instrument panel, side and top panels, etc. (depending on requirements). Each element is equipped with a set of connectors for easy and quick installation.



Cabin set on an appropriately high frame allows the use of a wide variety of visualization systems, including also the large spherical screens with a very wide field of view - FoV (horizontal and vertical). High resolution is provided by the mechanism of smooth combining images from multiple projectors (even up to eight units). A set of electronically controlled filters ensures good picture quality not only in the daytime scenes, but also realistic night imaging. The design also allows the use of collimation systems.

One of the key elements which allow the pilot to fully immerse himself in the world of simulation is the controls load system working smoothly and reliably. The systems offered by us allow for reproduction of the forces generated in the aircraft of all sizes.

For our cockpits we offer a wide range of avionics equipment. Standard components and devices made with use of LCD monitors and equipped with all the knobs and switches are functional and effective financial base for this category of devices.



In addition to the imitators of standard elements, we can equip the cockpit also with real aircraft pieces of equipment.

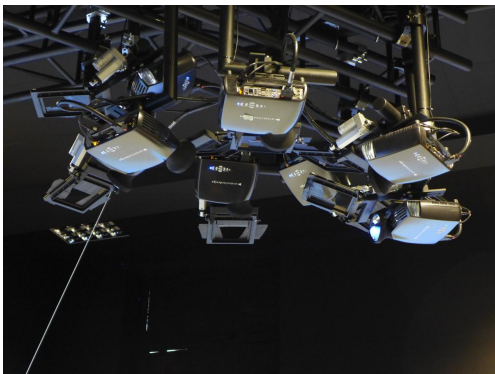
Thanks to a simple and functional control software interface even an instructor who does not have experience with computer systems is able to effectively control training using a wealth of possibilities of arranging the situation in the air: configuration of the aircraft, weather and emergency situations. Through an intuitive editor, the instructor can also check and update the navigation database in which the device is equipped.

According to the requirements for devices of this class, the instructor station was placed directly behind the cockpit what provides full control of the course of exercise. On customer request, we can equip the device with the additional instructor station, placed in a separate room, giving the instructor comfort during long flights (bright and quiet room). To ensure the instructor full control of the exercise, the other station is equipped with the remote monitoring of the cockpit mounted camera images, and additional monitors showing the visualization image and instruments display.



Multi-channel soundtrack system realistically simulates the acoustic environment of the pilot work, including communication in the cockpit (also between the pilots - as MCC version) and the flight control (the instructor).

For the customers who wish to use our facilities for training formation flights, we prepared potentiality to combine sets of devices with HLA technology (NATO standard). Under this option the trainees exercising on different simulators (different manufacturers - insofar as they implement standard) can fly into one coherent airspace.



Our specialists are ready to assist you in the process of obtaining the approval of the Civil Aviation Authority to operate the device. Together with the device we supply Qualifying Test Guide (QTG), which is necessary during certification. We offer full training in operating the device. We can provide assistance of our professionals in the early stages of migration on our solutions and provide full service throughout the life of the device.

The FNPT II / MCC category is not what you need? ETC-PZL Aerospace Industries company provides a full range of training devices and simulators of different categories tailored to your individual needs and requirements

