



MODERNIZED ORAO AIRCRAFT



Modernized ORAO ground-attack fighter is equipped with new navigation and weapon control system, optoelectronic system, weapons and mission computers, digital interface for communication with sensors and control of guided and unguided weapons.

The optoelectronic system consists of a thermal imaging camera and a laser rangefinder. This set enables the detection of targets at great distances, at day and night, and in conditions of poor visibility. In conjunction with the high-accuracy navigation system and ballistic computer, more efficient firing is enabled from existing weapons (cannon, unguided missiles and air bombs) and use of guided weapons. A color monitor is installed on the aiming system (HUD - Head up Display) in the front cabin, which displays the image from the optoelectronic system, and on the right side, another color monitor is installed, which shows flight instruments and navigation data on a moving map with aircraft's trajectory and potential targets.

Two color monitors are installed in the rear cabin. Flight instruments, navigation data, image from optoelectronic system and image from a homing head of guided missile can be displayed on the central monitor. The control of the optoelectronic system and the homing head is performed by a control stick installed in the rear cabin of the aircraft.

Features

- precise navigation,
- detect targets on the ground in poor visibility and at night,
- great accuracy of existing weapons,
- use of guided weapons.

Plan for further development is the installation of self-protection system with radar, infrared and laser radiation sensors, as well as active and passive protection systems, including new chaff and flare system. The installation of a new radio station and an identification device (IFF-transponder) is also planned.