

# KUB-SM

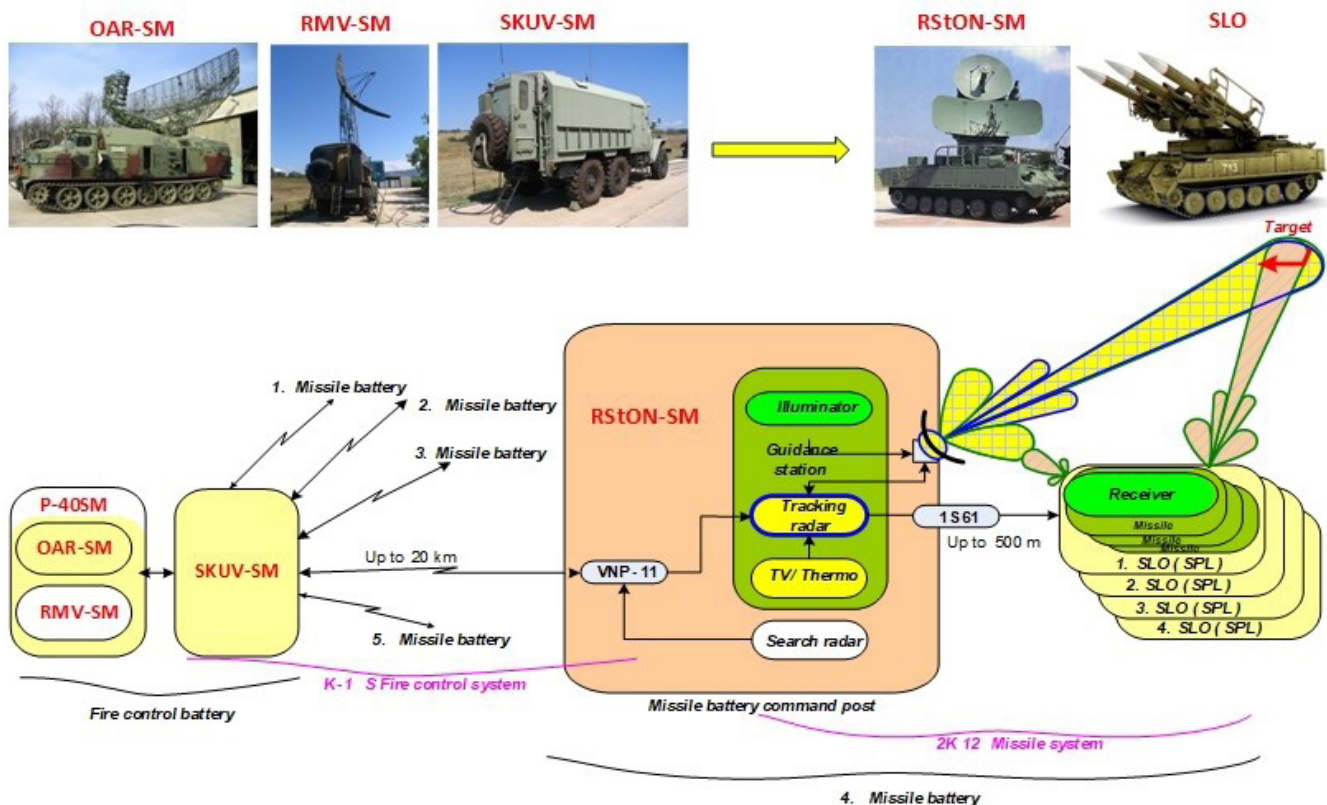
## Air defence missile system upgrade program



The AD missile system „KUB-SM“ is developed by modernization of AD missile system „KUB-M2“  
Modernization of the missile system includes the following:

1. Modernization of Fire Command and Control Station (SKUV-SM) -KBU;
2. Modernization of the Surveillance and Acquisition Radar (OAR-SM) - 1RL128;
3. Modernization of Height Finding Radar (RMV-SM) - PRV-16;
4. Modernization of the Surveillance and Guidance Station (RStON-SM) - 1S91;

With the modernization, practically a new, digital ADMS is obtained using a smaller number of old components and units, with maximum slant range engagement of 25 km.



Functional connection of subsystems of the AD missile system KUB-SM

The following system characteristics have been improved by modernization:

- Much better efficiency of the command system, owing to the use of modern information technology,
- Improved tactical and technical radar characteristics (increased sensitivity of all receiving channels, target visibility and possibility of tracking targets in clutter, in the cloud of passive interference and in low altitudes),
- Greater degree of information usage capabilities,
- Forming more comprehensive, better quality and clearer image of targets in airspace on radar displays and command post displays,
- Optimization of the system components by transmission of the target data from the command post (SKUV-SM) directly to RStON-SM, which results in a more accurate and thus faster directing of the tracking radar to the target
- A possibility to remotely control the radar from the command post (from the cabin of SKUV-SM), from switching on-off to changing the radar mode of operation,
- Enhanced reliability of the system and reduced costs of technical maintenance, by replacement of base components. The old tube and solid-state technology is to a great extent replaced by new solid-state technology,
- The possibility to directly connect radar stations P40-SM, RStON-SM and SKUV-SM to the AD Operations Center,

- The possibility to direct the tracking radars and self-propelled launchers (SPL) without activation of own surveillance radars,
- Passivation of missile batteries during night operations and in condition of low visibility (slight cloudiness),
- Shorter time required for own radar emission for the purpose of protection against anti-radar missiles.



AD missile system "KUB-SM"



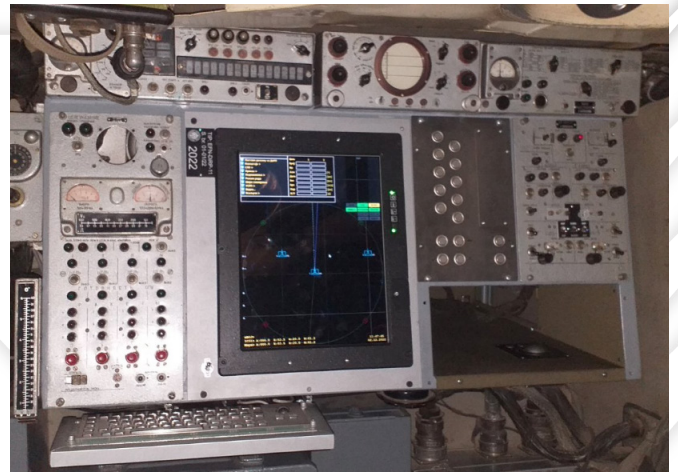
The interior view of the regimental command and control station (SKUV-SM) in combat operations



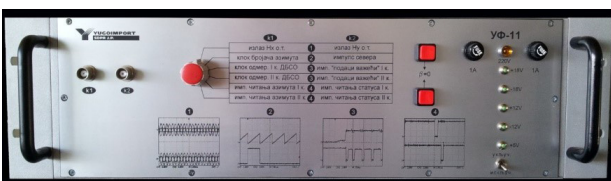
Target acquisition radar OAR-SM: Remote control and display systems



Guidance radar station RStON-SM



RStON-SM: Command control and display system



RStON-SM: Radar data formatting units



RStON-SM: MTI Filter



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