Abstract

Title: The influence of optoeletronic gunsight on shooting accuracy and precision

Objectives: The primary aim of this diploma thesis is to statistically appraise the influence of optoelectronic gunsight on shootihg accuracy and precision. The sighting device was mounted on Heckler & Koch MP5 machine gun during both static and dynamic shooting practices.

Methods: Shooting targets evaluation was based on the numerical method of detecting the mean point of impact. Statistical data processing was based on the method of comparison of means. To determine statistical significance we used dispersion analysis by means od ANOVA program.

Results: We ascertained that the employment of optoelectronic gunsight has a statisticaly significant effect on static shootig accuracy. From a shooting precision point of view, there was great statistical significance of the employment of optoelectronic gunsight during dynamic shooting practices, namely on the vertical “y” – axis.

Keywords: gunsight, shooting, assault rifle, target, laser