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Advanced physical technologies developed in the research laboratories of the Moldova State University (MSU) are used in the monitoring of environmental factors with the application of UVS (Unmanned Vehicle Systems). The aim of this research is development of an integrated mobile system for the exact monitoring and computational modeling of environmental factors. This paper deals with the first advisable stage related to a drone-dedicated system for the observation and support of the air analysis for pollution, chemical and radiological contaminations. The exact data can then be used in modeling of the impact of biotic and abiotic factors during the real-time environmental monitoring process.