



Procurement of the remaining specific equipment and software for the laboratories for Photogrammetry and Engineering Surveying, February 2018

Last procurement for the University of Belgrade has been finished in the February 2018. It has covered two distinct sets of equipment: first, remaining specific equipment for the implementation of 3D digital photogrammetric workstation; and second, laptop computer and two software programs dedicated to courses from the field of engineering surveying. A detailed specification of all equipment from this procurement is given in Table 1.

1.	Leica Infinity	Field Data Import Full GNSS Baseline Processing Process Terrestrial TPS & Level & GNSS data Full 3D, 2D, 1D Network Adjustments Work with scan point data including full 3D meshing tools CAD and COGO Tools 3D Data Visualization Data Export Manage Coordinate Systems	1
2.	Technodigit, 3D Reshaper	Point Cloud Processing 3D Meshing Inspection & Features Extraction Alignment Sections & Polylines Scripting	1

3.	HP inspiron power	Processor: Intel® Core™ i7 7700HQ Processor Chipset: Intel® HM175 Express Chipset Memory: 2 x SO-DIMM socket, 12 Gb Display: 15" (16:9) LED backlit FHD (1920x1080) 60Hz Graphics: nVIDIA GF GTX 1050 4GB DDR5 Storage (HDD): 1TB SATA	1
4.	3D mouse	3D Mouse Stealth S1 - V-Type	1
5.	Active 3D glasses KIT	NVIDIA 3D Vision 2 Kit	1
6.	3D glasses extra	NVIDIA 3D Vision 2 Wireless extra glasses	1
7.	3D glasses for projector	NEC NP02GL 3D Active Shutter Glasses	5

All equipments are very important for the modernization of teaching and learning process at the Department for Geodesy and Geoinformatics. With this procurement, digital photogrammetric workstation is completed, thus providing full utilization of all other components previously procured. Equipments of the photogrammetric workstation are shown on Figure 1.



Fig. 1: Procured equipment for the Laboratory of Photogrammetry

Laptop computer equipped with software programs for processing different geospatial data, including Total station data, Levelling, GPS data and Point Clouds will be used in teaching on several courses related to Engineering Surveying, including Engineering surveying 1 and 2, Deformation analysis, Designing of surveying works, Terrestrial laser scanning etc. However, its primary use will be at processing geo-data collected while working in the field within the practical classes, as well as at working on their final works and Master thesis. Classes of practical work are in focus on our primary studies. In these classes, students solve different practical works in the field which, in most

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cases, imply collecting different geo-data by using different surveying equipment. In this regard, having appropriate software programs for processing those data, like Leica Infinity and 3D reshaper, is of great importance. Photos of procured laptop computer and software programs are given in Figure 2.

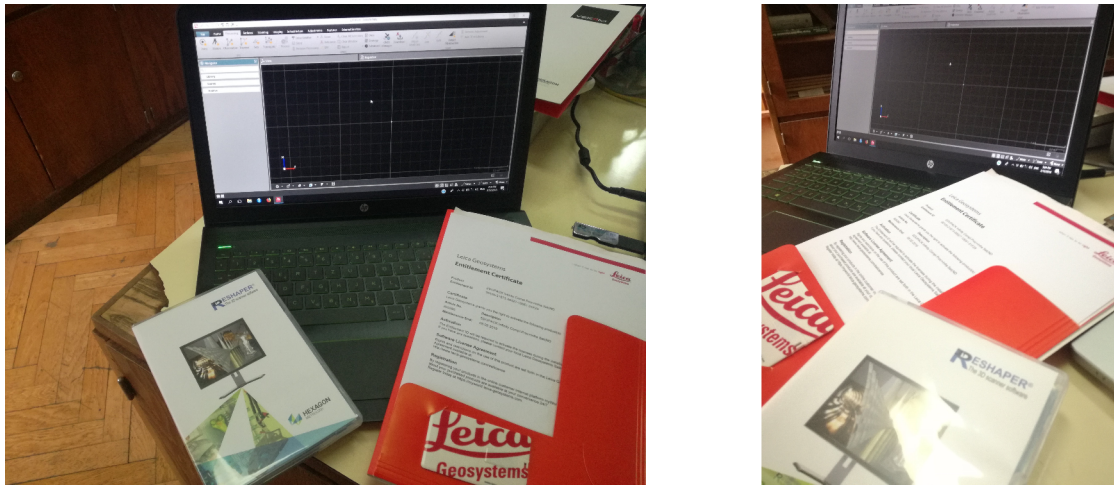


Fig. 2: Procured laptop computer and software programs for the Laboratory for Engineering Geodesy

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