

## Services offered by the Cultural Heritage Documentation and Digitization Centre

### ***Building survey of the current state of buildings***

As part of our activities, we prepare a survey of the current state of historical buildings, with the subsequent creation of standard drawings in CAD and Adobe print form. We create mass 3D models of terrain relief and historical buildings with monochrome or photographic texture of the mantle.

### ***Documentation with 3D scanners***

Using laser and optical scanning technologies, we create 3D visualizations of small and large artifacts and their surfaces, with both monochrome and real textures. The resulting models can be presented on the web interface or in 3D PDF format for viewing without special software. We provide pre-press data model preparation for printing on 3D printer.

The latest option is to scan large spaces, buildings and their complexes from the interior and exterior with the FARO Laser Scanner Focus. Obtained data can be used for making complex 3D models, e.g. for virtual tours etc.

### ***Geodetic survey***

We provide geodetic survey of terrain relief, buildings and sites, including connection to S-JTSK.

### ***Digital terrestrial photogrammetry***

We use single-image and cross-sectional photogrammetric methods to document surface and spatial objects with the possibility of creating a spatial digital model. It is a non-destructive non-contact documentation method based on obtaining coordinates from transformed photographic images. Outputs can be supplied separately, or in the form of photo plans or standard plan documentation.

### ***Digitization of analogue images from slides, 35mm films and photographs***

Our scanning equipment enables the processing of analogue outputs such as old photographs and 35mm films into digital formats, including post-processing.

### ***Digitization of printed materials and archival materials***

With the help of modern photographic and scanning equipment, we digitize archival materials and printed materials up to A1 format.

### ***Photographic and film documentation***

The Centre has professional photographic, film and mixing equipment. Thanks to the corresponding top-class software, we are able to process all photo, audio, and video formats into end user outputs.

### ***Construction-historical surveys of historical buildings***

We carry out construction-historical surveys of historical buildings according to the standards of NPÚ (National Heritage Institute) methodology. The report contains a text part with a description, archive research, construction-historical development of the building and its evaluation, plan documentation with construction-historical analysis and monument evaluation, and photo documentation. We deliver the results in the form of a conservative printed paper in three duplicates and in electronic form.

### ***Operational surveys and documentation of parts of historical buildings***

We carry out operative surveys and documentation of parts of historical buildings according to the standards of NPÚ (National Heritage Institute) methodology. We deliver the results in the form of a conservative printed paper in three duplicates and in electronic form.

### ***Assessment and documentation of historical structures and equipment***

We provide mainly stratigraphic analyzes, formal and functional analyzes, heritage and construction-historical evaluation, which we supply in the form of expert reports, and finding or inventory reports.

### ***Sampling of wood for dendrochronological analysis***

We select the appropriate elements of timber structures to date the felling of the timber and to determine the tree species. We provide dating of samples by sub-delivery from dendrochronological laboratory.