

HIGH-PRECISION DIGITAL OBJECT DETECTION

# Digitizing templates made easy

Whether at the customer, on the construction site or during production: With the help of VirtualDigitizing, the time-consuming manual measurement of patterns/objects/templates is a thing of the past, completely without a digitizing table. Simple handling in the digitizing process enables highly professional object acquisition including documentation and archiving.

Photo: Softsolution



To produce the right templates for model slices, all you need is a camera or a smartphone and the appropriate Softsolution software - VirtualDigitizing.

VirtualDigitizing from Softsolution is a user-friendly software for the digitalization of templates, patterns and 2D objects, which can be implemented quickly and easily. This results in an unprecedented ease of work and flexibility and saves users much time and money. A calibrated camera system, a reference dimension and the VirtualDigitizing software are required for the implementation. This enables users to transfer any template into a DXF file within a very short time (< 5 min). Templates/patterns/objects made of glass, paper, metal, wood or plastic from a few millimetres up to several metres can be digitized quickly and easily.

### Use camera and smartphone

For VirtualDigitizing any camera can be used and also smartphones. "To achieve better image quality and accuracy (+/-1 mm tolerance up to the size of 3000 x 2000 mm), we offer customers a 24 million pixel reflex camera with fixed focal length lens as standard.

In addition, different template thicknesses can be digitized, and the photos taken with variable angles. Holes in templates can be set manually using a 3-point drill hole function or via the centre point (with diameter input)," says International Sales Manager Markus Stefan.

The generated DXF files are already tangentially smoothed, so that the DXF contours can be processed directly and without any post-processing on the cutting table, the machining/CNC.

The VirtualDigitizing software helps to deliver consistent quality with short turnaround times. Up to now, the creation of templates on the digitizing table has been a time-consuming and cost-intensive process - combined with many work steps. **Thus, a digital template is created with the VirtualDigitizing software:** To do this, you take a photo on site with the calibrated camera set, open it with the software, digitize the contours, mark optimal holes / cut-outs and send the finished DXF file to the production department.

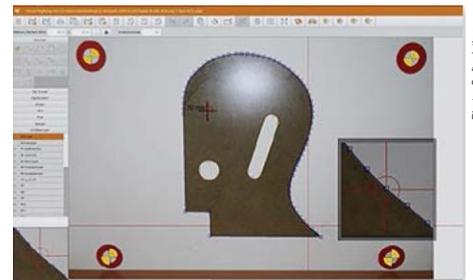


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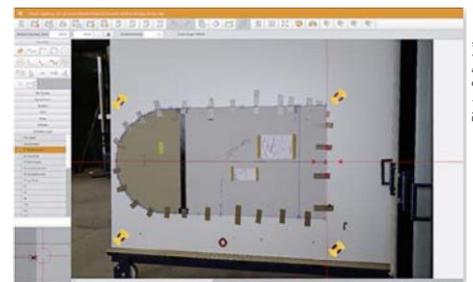


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With the VirtualDigitizing software, templates, patterns and 2D objects for model slices can be digitized quickly and easily.

### THE BENEFITS OF THE SYSTEM

- Fast and flexible digitizing solution for templates, patterns and 2D objects
- Automatic conversion of a digitized template into a DXF file
- Seamless documentation as well as computer-supported archiving of the templates/patterns/objects
- Spline optimisation and fully automated tangential smoothing

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