

zSnapper *multiple*

3D scanner



The zSnapper *multiple* combines up to 6 fully synchronized zSnapper scan units. This is an extension of zSnapper *portable* where patches are taken step-by-step for capturing full 360° scans. The zSnapper *multiple* goes beyond and records the different views in one single shot. All scanners work in parallel and are precisely synchronized to guarantee no interference.

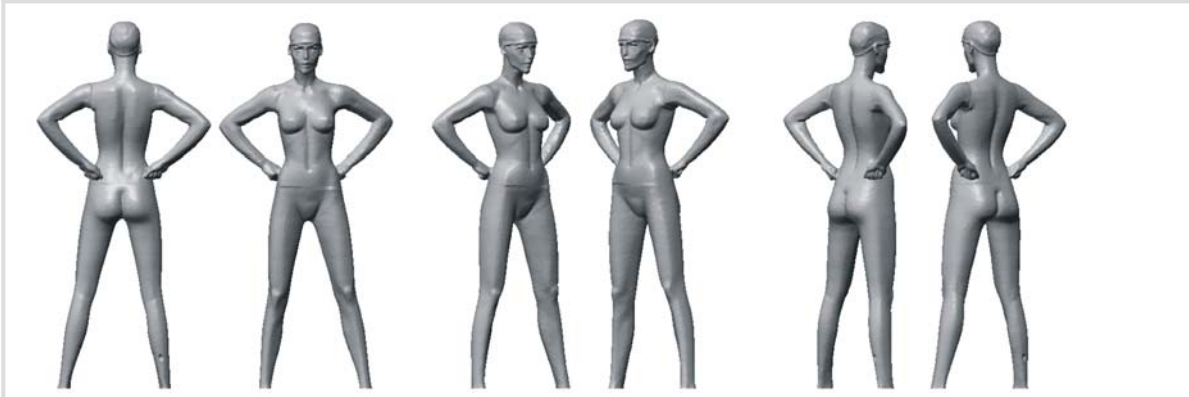
The zSnapper *multiple* is a high performance solution if fully automated scan operation is needed either in industrial inspection or for capturing non-stable objects and dynamic scenes. The scanners may be mounted in any desired position and the scanner ensemble provides aligned 3D data. In this way, the complete geometry is measured instantly from multiple perspective views. High-resolution colour texture is an additional option. Possible motions of the person or object do not disturb the measuring signal. The object can be freely held into the measuring space without the need of any suspension. The zSnapper *multiple* is the preferred solution for automatic 360° scanning within milliseconds. It provides access to dynamic 4D data, i.e. time sequences of 3D shape records can be taken with a maximum 3D frame rate of 46 Hz. The total measuring time for various zSnapper *multiple* configurations is given in the specifications.

Convenient self-calibration software is included and ViALUX provides customized calibration items for various zSnapper *multiple* configurations. No specific skills are required and the process is completed within a few minutes. The calibration status of the zSnapper scanners can be checked at any time during system operation.

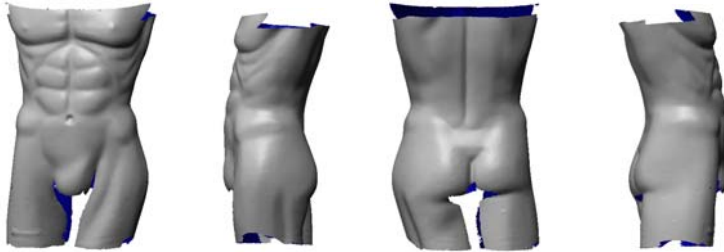


The 3D model raw data are exported into ASCII text files. Data are open and can be processed by point cloud transformation software with common CAD outputs like STL, IGES etc. Post-processing software is offered as an option. The customer can choose from a family of scan units which provide different fields of view. The scan units are available as all-in-one device (*compact*) or in a more flexible configuration (*vario*) with the projection unit and the camera unit mounted separately.

No. of scan units:	6 x vario XL
Object:	Mannequin
Size:	2000 mm



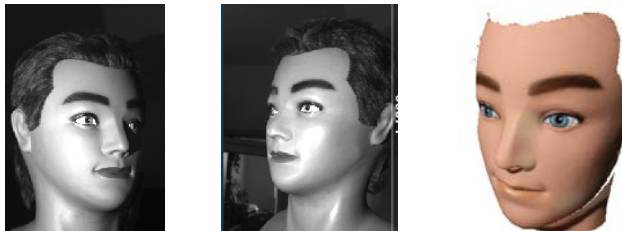
No. of scan units: 4 x *vario*
 Object: Torso
 Size: 900 mm



No. of scan units: 3 x *compact*
 Object: Sheet metal part
 Size: 160 mm



No. of scan units: 2 x *compact* + SLR camera
 Object: Head
 Size: 350 mm



Specifications

z-Snapper multiple

Total measuring time vs. number of scan units

No. of synchronized scan units	2	3	4	5	6
measuring time in milliseconds	21.5	24.4	32.5	40.6	48.8

Types of scan units

Scan unit	<i>compact</i>	<i>vario XS</i>	<i>vario</i>	<i>vario XL</i>
Field of view [mm]	350	70	1100	2500
Accuracy [μ m]	40	10	150	500

