Case Study: Maya bass-relief, Copan (Honduras)

The Jaguar bass-relief (roughly 3×2 m), located in the East Court of the May archaeological area in Copan (Honduras) was surveyed using a Kodak DCS-Pro calibrated camera (13 Mpx, pixel size 8 mcron, 35 mm lens) and 8 images.

The images were processed with the TAPEnADE tools in ca 1.5 hours, producing the shown camera poses and colorized point cloud:
The derived point cloud was compared with a range-based point cloud obtained with a Leica Scansta-
tion2 (position accuracy ±6 mm and distance accuracy ±4 mm at 50 m, in terms of 1σ). The geometric
comparison presents a final difference between the photogrammetric and the laser scanner model of
5 mm.

Fig. 3: Geometric comparison with ground-truth data (std = ca 5 mm).