

Trigonometric moments for editable structured light range finding Supplemental material

S. Werner¹ , J. Iseringhausen¹ , C. Callenberg¹  and M. Hullin¹ 

¹University of Bonn, Germany

In the following we present additional results that accompany our paper and were left out due to space constraints or to improve readability. In addition to the images provided in this document, we supply videos with the following content:

1. One video per scene showing the reconstructed linesweep with a slightly upscaled brightness for better visibility.
2. One video per scene showing the reconstructed linesweep in logscale.

3. A video showcasing the editing of the complex scene, containing multiple objects including the translucent plastic block.

References

- [CLFS07] CHEN T., LENSCH H. P., FUCHS C., SEIDEL H.-P.: Polarization and phase-shifting for 3d scanning of translucent objects. In *2007 IEEE conference on computer vision and pattern recognition (2007)*, IEEE, pp. 1–8. [2](#)

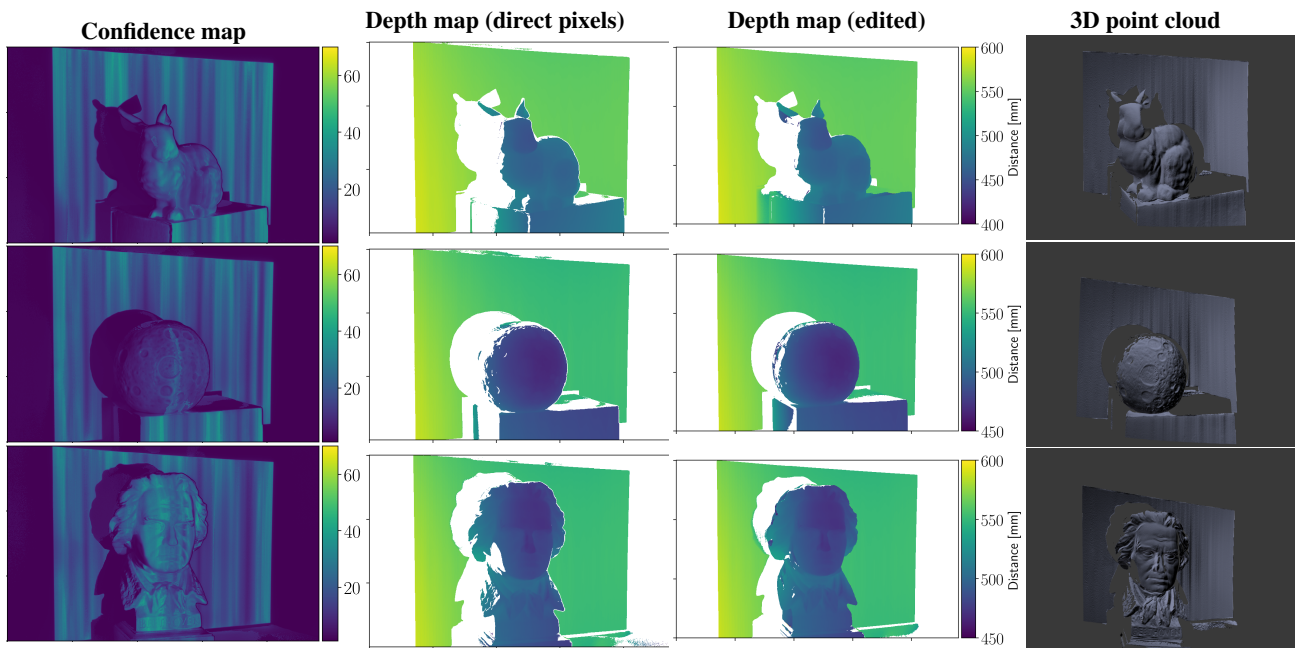


Figure 1: Confidence maps, depthmaps and final reconstructions obtained for three additional scenes acquired with our measurement setup. The measurements were performed with 5 frequencies ($j = [0 \dots 4]$) and 4 equally spaced phase shifts per frequency. This completes the results shown in Figure 10 in the paper.)

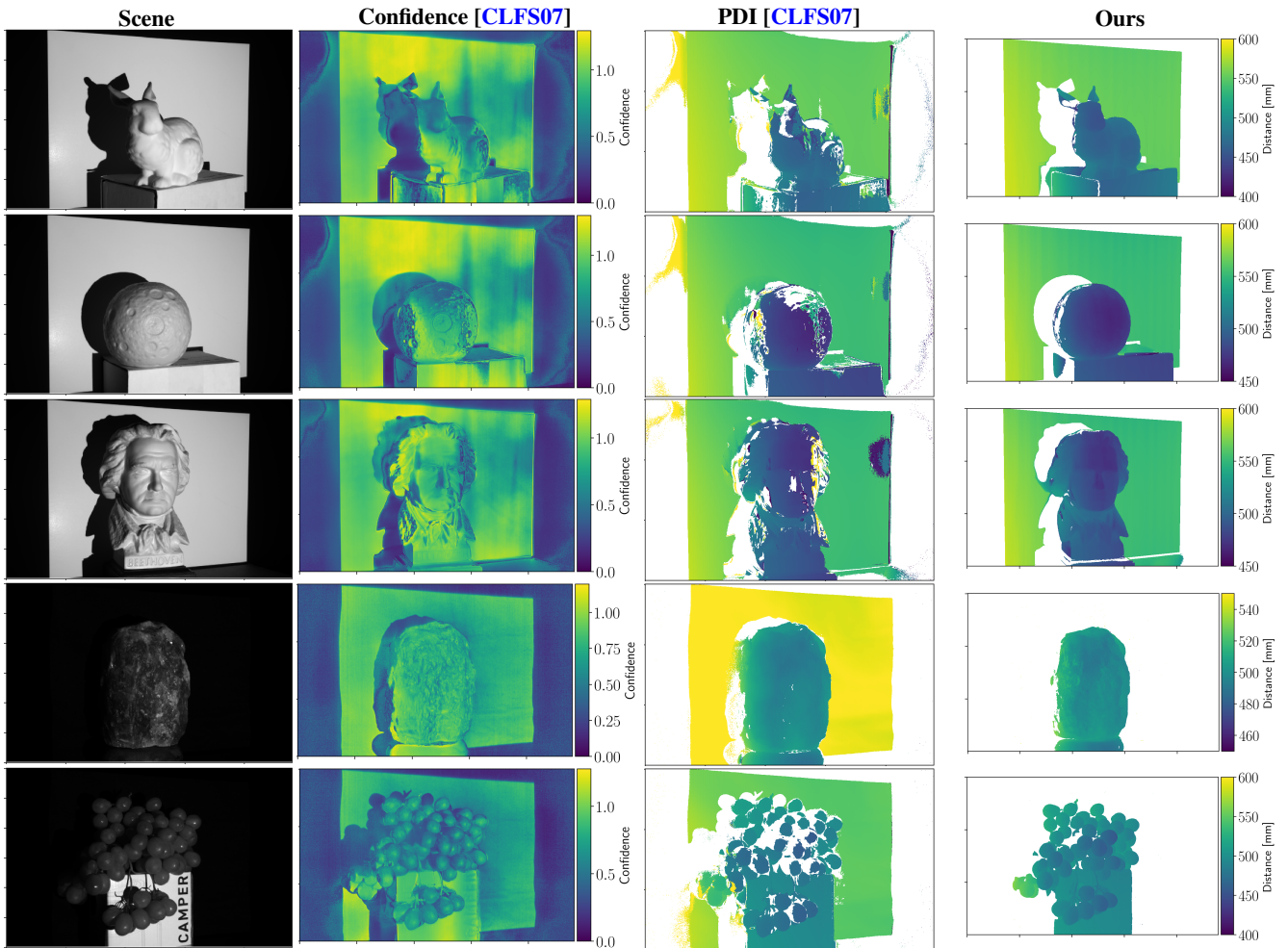


Figure 2: Comparison between the polarization difference imaging (PDI) approach by Chen et al [CLFS07] with our results for the scenes not presented in the paper. From left to right, we present the original scene image, the confidence computed following Eq.5 in [CLFS07], the final result obtained with the PDI method (and masking out “unreliable” pixels) and our final result after masking and editing.