Proposal of three-dimensional phase contrast holographic microscopy: erratum

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Abstract: A part of the schematic in Fig. 1 was incorrect. The correct version is presented herein.

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OCIS codes: (180.6900) Three-dimensional microscopy; (180.5810) Scanning microscopy; (110.0180) Microscopy; (090.2880) Holographic interferometry; (110.4850) Optical transfer function.

References and links

1. N. Fukutake and T. D. Milster, "Proposal of three-dimensional phase contrast holographic microscopy," Opt. Express **15,** 12662 (2007).

A part of Fig. 1 in [1] was incorrect; it is corrected below. The scanning mirror in Fig. 1 of [1] is replaced with a double-sided mirror whose normal direction is also scanned two-dimensionally. The propagation direction of the plane wave which illuminates the object is scanned by the obverse side of the double-sided scanning mirror. The 0-order light transmitted through the object is reflected by the reverse side of the scanning mirror, resulting in the identical direction of the 0-order light irrespective of the scanning mirror angle.

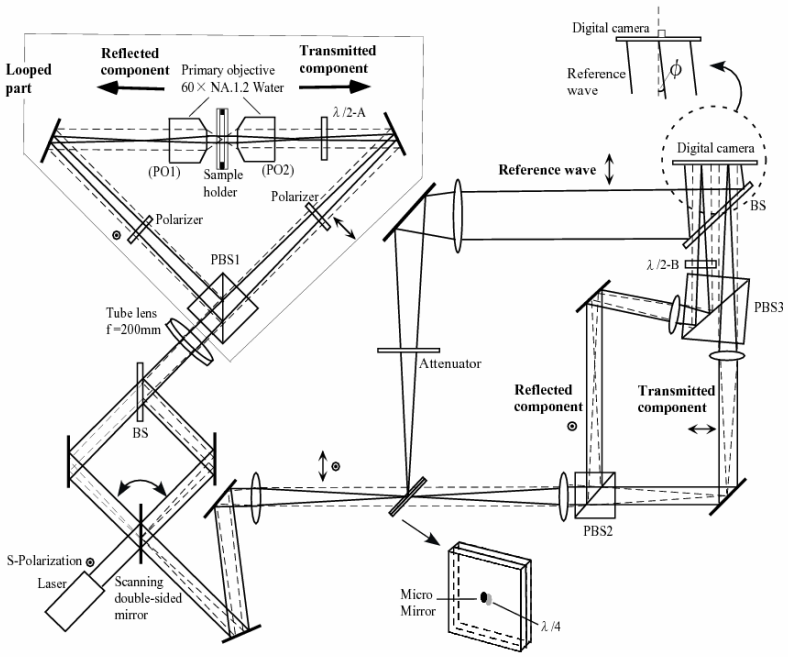

Fig. 1. Schematic of the setup of the 3-D phase contrast holographic microscopy. BS: Beam splitter. $\lambda/2$: Half wave plate. $\lambda/4$: Quarter wave plate. PBS: Polarized beam splitter.

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