Accepted Manuscript

Title: A novel evaluation and compensation method for ultra-precision machining of hybrid lens

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Please cite this article as: Li LH, Chan CY, Lee WB, Liu YH, A novel evaluation and compensation method for ultra-precision machining of hybrid lens, *Precision Engineering* (2015), http://dx.doi.org/10.1016/j.precisioneng.2015.05.001

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Research highlights

We designed and fabricated a diffractive-refractive hybrid objective

lens (DHOL) compatible with multi-type optical discs (Blu-ray Disc (BD), China Blue High-Definition Disc (CBHD), DVD and CD).

We proposed a novel refractive compensation method.

Through superimposing a small refractive curvature, a significant

improvement in the diffractive performance can be achieved.

The optimal design was fabricated and found to perform satisfactorily.

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