

Improving optical pipeline through better alignment and calibration process

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1 Introduction

Dimensional metrology and alignment methods are significant and vital during different manufacturing processes. Dimension inspection processes play a crucial role in controlling the position accuracy of production [?]. P. MAresca et al identified the trends in metrology associated with quality control at the industrial level as: fast,more precise, safer and more flexible [?]. an industrial metrology process is used on industrial systems, components and objects to perform inspections,alignments and measurement [?]. It offers economic argument regarding the effects of intrinsic standard technology advances and considers the measurement information infrastructure's potential impacts on cost-effectiveness and risks for IoT measuring instruments adoption [?]. Metrological systems are based upon the principle of a good alignment system. The inspection and alignment of larger scale components with a strict precision were concerned in the high-tech and heavy industry [?]. Good alignment inspection is one of the most important methods to ensure safe measurement [?].

References