

# 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 [1]. P. Maresca et al identified the trends in metrology associated with quality control systems demanded by the industrial level as :fast, more precise, safer and more flexible [2]. The highly-automated measuring and control systems demanded by the industries could use several approaches to extract more value from traceable measurements [3]. An industrial metrology process is used on industrial systems, components and objects to perform inspections, alignment and measurement [4]. 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 [5]. Metrological systems are based upon the principle of good alignment system. The inspection and alignment of larger scale components with a strict precision were concerned in the high-tech and heavy industry [1]. Good alignment inspection is one of the most important methods to ensure safe measurement [6].

## References

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