
Analysis of factors affecting on distance error in phase shift laser rangefinders

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Describes the main causes of lowering the accuracy of the distance measurement in phase shift laser rangefinders (PLR). The range of permissible fluctuations of the most important parameters — phase and frequency, at which the measurement error does not exceed 1 mm.

Keywords: phase shift laser rangefinder, phase measurement, digital filter, heterodyne, jitter, mixer.

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