Abstract

System and Method for detecting Optical Power of Dry Ophthalmic lenses

A system for detecting refractive power of a dry ophthalmic lens under inspection, comprising: a) a top camera 10 arranged to view the ophthalmic lens 40 through an optical module 25; b) an optically transparent surface 30 to position the ophthalmic lens 40 for inspection; c) a precisely calibrated glass target 50 suitably positioned on a transparent plate 60, arranged to achieve an image of the ophthalmic lens 40 overlaid with the image of the pattern on the target 50; d) at least one light source having multiple wavelength LEDs to capture different images under multiple lighting conditions.

Figure 1a