A System And Method To Measure Intraocular Pressure Using Laser Speckle Imaging

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BRIEF DESCRIPTION
A novel non-invasive method to measure intraocular pressure (IOP), offering a significant advancement in glaucoma management.

FULL DESCRIPTION
Researchers at UCI have developed a novel technology that utilizes laser speckle imaging to non-invasively measure intraocular pressure. Designed for clinical use, it provides an easily repeatable, accurate method for monitoring IOP, crucial for effective glaucoma management and postoperative care.

SUGGESTED USES
» Regular IOP monitoring for glaucoma management in clinical settings.
» Postoperative care for glaucoma surgery patients, providing early success indicators and reducing clinic visits.
» Research tool for further understanding the dynamics of intraocular pressure and eye health.

ADVANTAGES
» Non-invasive, enhancing patient comfort and safety.
» Enables frequent and flexible IOP monitoring, overcoming the limitations of current measurement methods.
» Provides accurate and natural state IOP readings without the interference of artificial pressures.
» Simplifies operation and increases patient throughput in clinical settings.
» Cost-efficient, utilizing readily available optical components for laser speckle imaging.

STATE OF DEVELOPMENT
Experimental stage

INVENTORS
» Choi, Bernard

OTHER INFORMATION

CATEGORIZED AS
» Medical
» Devices
» Imaging

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