

Which eye meter has a $\pm 0.05\text{dB}$ accuracy that is easy to adjust



Overview

The Grafton Digital PD Meter is a digital precision optical instrument used to measure distance between pupils, pupil height and distance between glasses and eyes. The IOLMaster[®] 500 from ZEISS is the gold standard in optical biometry, with more than 100 million successful IOL power calculations to date. 5 means, that the deviation has to be smaller than 0. So for the small elongation an absolute limitation is used. Make your life easier and increase patient satisfaction at the same time. ZEISS VISULENS 550 offers you intelligent measurement modes for a wide range of lenses as well as. Let's examine what a diopter is, how it affects vision, and why it's important to comprehend this measurement to achieve visual correction in this post. Whether you are comanaging LASIK, screening for keratoconus, preparing for LRI surgery, or going the extra mile with your glaucoma patients, this unit is programmed with the features and data tools you will need.



Article Content

Mar 11, 2026

The Most Precise (or Most Accurate?) Eye Tracker

The cross indicates the actual gaze location, while the dots are gaze locations reported by the eye tracker. All in all, the “most precise eye tracking

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Meet Your Lensmeter

It featured a compact and linear dioptric power scale, uniform target size and luminance, and reduced the impact of operator eye error and accommodation on

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Refractometers Explained: Brix, Digital vs Handheld,

Match instrument type to your accuracy, temperature, and data needs; keep calibration traceable and maintenance simple. When you're ready to equip,

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Data quality reports for 3 Tobii eye trackers

Download the laboratory and field metrics test reports for Tobii eye trackers. We pride ourselves on the highest standards of data quality.

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How accurate is EyeQuant?

Why is eye-tracking data more accurate than alternatives? Eye movements such as the ones tracked by EyeQuant happen immediately without any conscious

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ZEISS VISULENS 550 | Lensmeter

It is equipped with a green measurement LED and a Shack-Hartmann sensor that allows you to precisely determine the power of the entire set of different lens materials and designs without the

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Eye Tracking Accuracy and Precision: Understanding the Difference

Accuracy and precision are essential factors for obtaining meaningful insights with eye tracking: so what is the difference between the two?

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Oculometer

Oculometer is a device that tracks eye movement. The oculometer computes eye movement by tracking corneal reflection relative to the center of the pupil.

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Tonometers—which one should I use? | Eye

It has also been reported to estimate IOP within ± 3 mmHg of GAT in 74.1% of the eyes in a study . However, in some studies it underestimated GAT measurements at high IOP values

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Why Digital Multimeter Accuracy and Precision Matter

Accuracy and precision ensures the measurements you take will be useful; higher precision enables easier repeatability and higher accuracy means the your

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Compare Pachymeters

The AccuPach VI has a user-friendly touch-tone screen which allows the user to master the AccuPach VI in minutes. It also features an adjustable handle or stand

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Grafton Digital PD Meter | Grafton Optical

The Grafton Digital PD Meter is a digital precision optical instrument used to measure distance between pupils, pupil height and distance between glasses and

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Eye tracker accuracy and precision

Accuracy and precision are important concepts for understanding and for evaluating the quality of eye tracking data. Accuracy is the offset between the actual gaze position and what the eye tracker

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LB Eye Tracking Accuracy Doc 2

Method Of Data Capture 2. Background 2.1 Machine Learning Web Camera Machine learning applied to eye tracking revolutionizes our understanding of visual attention. By training models on extensive

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ZEISS IOLMaster 500

The ZEISS IOLMaster 500 is a great choice for cataract surgeons looking for a reliable, fast and easy-to-use optical biometer for measurements they can depend on.

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Complete Guide to Eye Test Charts: Types, Usage,

Innovative eye test charts that provide increased accuracy, adaptability, and accessibility in eye exams have revolutionised the assessment of vision. We will

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Sizing Up Optical Biometers

Topcon says the Aladdin HW3.0, a low-coherence interferometry biometer and placido topographer, can get the measurements needed for

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The Accuracy of 3D Scanner: What You Really Need to

SHINING 3D's Accuracy Laboratory has a laser interferometer that calibrates the CMM by providing high-precision measurements of displacement

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(PDF) Evaluating Accuracy of the Tobii Eye Tracker 5

This study evaluates the general accuracy and precision of Tobii eye-tracking software and hardware, along with the efficacy of training a neural

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Understanding Multimeter Accuracy | Fox Valley Metrology

Your multimeter's accuracy tells you how close its reading is to the true value of what you are measuring. This is typically expressed as a percentage (such as $\pm 0.5\%$).

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Understanding Diopters: A Guide to Optical

Monoyer's diopter is credited with revolutionizing optics. It made precise lens power assessment easier, and optometry and ophthalmology still

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Accuracy Class 0.5

The accuracy class 0.5 means, that the deviation has to be smaller than 0.5 % of the measured value. If the elongation is very small the relative limits (%) cannot be

Dec 29, 2025

Blog: Clinical Grade Eye Tracking: Precision, Accuracy

November 19, 2020 Blog: Clinical Grade Eye Tracking: Precision, Accuracy and Robustness Accuracy vs Precision For several EYE-SYNC assessments,

Jan 24, 2026

Choosing the Best Auto Lensmeter: A Guide for

Auto lensmeters offer top-of-the-line accuracy and efficiency for prescription lens analysis. They are compatible with a wide range of prescriptions and all lens types.

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Understanding Instrument Accuracy Grades in Detail

Instrument accuracy grade is a vital factor in determining the reliability of measurements. A lower grade number indicates higher precision, making it

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GNSS/GPS Accuracy Explained | Support | Juniper Systems

GNSS (Global Navigation Satellite Systems) such as GPS allow for fairly simple location-based data collection. But because of the way these systems work, the statistical accuracy of the location-based

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