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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE

PEOPLE'S REPUBLIC OF CHINA

JJF 1912-2021

Calibration specification for sunglasses power detection device

太阳镜焦度检测装置校准规范

(English Translation)

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Introduction

JJF 1001 "General Metrology Terms and Definitions", JJF 1032 "Optical Radiation Metrology Terms and Definitions", JJF 1059.1 "Assessment and Representation of Measurement Uncertainty" and JJF 1071 "Rules for Compilation of National Metrology Calibration Specifications" it constitutes the basic series of specifications that support the formulation of this specification.

This specification is published for the first time.

Sunglasses power detection device calibration specification

1 Scope

This specification applies to the calibration of the vertex power and prism power of the sunglass power detection device.

2 Reference documents this specification references the following documents.

JJG580-2005 Focus meter GB/T 13962-2009 Optical Instrument Terminology QB2457-1999 Sunglasses ISO 12311:2013 Test Methods for Personal Protective Equipment Sunglasses and Related Goggles (Personal for dated references, only the dated version applies to this specification; for undated references the latest version (including all amendments) applies to this specification.

3 Terminology and units of measurement the distance from the back vertex of the lens to the back focus, also known as the image square vertex focal length, as shown in Figure 1, represented by the symbol lf'.

Figure 1 Schematic representation of the back vertex of the lens

H-object principal point; H'-image principal point; F-object focus; F'-image focus; f-object focal length; f'-image focal length

3.2 Back vertex power the inverse of the paraxial back focal length of the lens, measured in meters, i.e. 1/lf'. The unit is m-1.in ophthalmic optics Field, the unit of back vertex power is also called diopter, and is represented by D.

3.3 focal power

The ability of an optical system (or lens) to converge or diverge light. Its value is the reciprocal of the focal length and the refractive index of the medium accumulation.

3.4 Prismatic power

A measure of the deviation of light rays from passing through a specified point on the lens (usually the center of the lens). The unit is centimeters per

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