

ICS 17.180
CCS A 60

JJG

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JJG 866-2008

Replacing JJG 866-1994

**Verification Regulation of Standard Lenses of Vertex Power
(English Translation)**

Issued on: September 27, 2008

Implemented on: January 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

Table of Contents

1 Scope (1)	
2. Referenced Documents (1)	
3 Terms (1)	
4 Overview (2)	
4.1 Classification (2)	
4.2 Composition and use (2)	
5 Metering performance requirements (2)	
5.1 Glasses with vertex standard lens (2)	
5.2 Special contact lens vertex standard lens (3)	
6 General Requirements (3)	
7 Control of measuring instruments (3)	
7.1 Verification Environment (3)	
7.2 Verification Project and measuring equipment (4)	
7.3 Verification Methods (5)	
7.4 Verification Results Processing (8)	
7.5 Test cycle (8)	
Appendix A Glasses recommended format with standard lens vertex original records (9)	
Appendix B Special contact lens standard lens vertex original record format recommended (11)	
Appendix C Glasses with lenses in the vertex standard test certificate Recommended page format (12)	
Appendix D Special contact lens vertex standard lens calibration certificate within the recommended format page (13)	
Appendix E Lens vertex standard measurement uncertainty evaluation sample (14)	

7.5 Test cycle (8)

Appendix A glasses recommended format with standard lens vertex original records (9)	
Appendix B special contact lens standard lens vertex original record format recommended (11)	
Appendix C glasses with lenses in the vertex standard test certificate Recommended page format (12)	
Appendix D special contact lens vertex standard lens calibration certificate within the	

recommended format page (13)

Appendix E lens vertex standard measurement uncertainty evaluation sample (14)

Vertex standard lens test procedures

1 Scope

The order applies to vertex standard lenses (including glasses dedicated vertex by vertex standard lenses and contact lenses Standard lens) of the initial verification, subsequent verification and in-service inspection.

2 Citations

ISO 9342-1:2005 "Optics and optical instruments - focimeter check with lenses - Part 1.

Measurement glasses mirror Focimeter check sheet with lens

"(Opticsandopticalinstruments-Testlensesforcalibrationof focimeters-Part 1.

Testlensesforfocimetersusedformeasuringspectaclelenses) ISO 9342-2:2005 "Optics and optical instruments - focimeter check with lenses - Part 2. Measurement of contact lenses Focimeter check with lens

"(Opticsandopticalinstruments-Testlensesforcalibrationoffoci-meters-Part 2.

Testlensesforfocimetersusedformeasuringcontactlenses) JJG 580-2005 "focus meter test procedures" JJF1059-1999 "Evaluation and Expression of Uncertainty in Measurement"

when using this procedure, it should pay attention to using the currently valid version of the documents cited.

3 Terms

The following terms apply to this procedure.

3.1 glasses with vertex standard lens standardtestlensesforcalibrationoffocimetersused formeasuringspectaclelenses Designed to measure the test spectacle lens focimeter standard lenses.

3.2 special contact lens vertex standard lens

standardtestlensesforcalibrationoffocimetersused formeasuringcontactlenses Designed to measure the test contact lenses focimeter standard lenses.

3.3 After the vertex backvertexpower After the lens near the axis in meters measured at the top of the reciprocal of the focal length. After the lens vertex to the paraxial back focus distance is called Paraxial back vertex length (see Figure 1), the symbol l'_f says its reciprocal called back vertex power, ie $1/l'_f$. After the vertex the unit is the reciprocal meter (m⁻¹).

Note: a lens comprising front and rear two vertex. Such as not specified, the vertex of the lens mean a subsequent vertex.

3.4 standard spherical lenses standardsphericaltestlens Nearly axis parallel beam

converges to a focus on the standard lens.

3.5 standard lenticular lens standard cylindrical test lens Nearly parallel beam axis converge to two separate, mutually perpendicular focal line, different standards and spherical lenses, with There are two main standard lens vertex degree. One of the primary vertex may be zero, which corresponds to the focal line is located at infinity.