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Ophthalmometers

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry, and Minister of Health, Labour and Welfare through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by the Japan Medical-optical Equipment Industrial Association (JMOIA)/the Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently, **JIS T 7318 : 1988** is replaced with this Standard.

ISO 10343 : 1997 *Ophthalmic instruments—Ophthalmometers* has been employed to conform to this revision.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Ophthalmometers

Introduction This Japanese Industrial Standard based on **ISO 10343** *Ophthalmic instruments—Ophthalmometers* published in 1997 as the first edition has been made by adding and modifying part of the technical contents in compliance with the actual condition in Japan.

The portions underlined with dots in this Standard are the modification of or addition to the original International Standard. The list of modification is given together with the explanation in Annex (informative).

1 Scope This Standard specifies the ophthalmometers which indicate the radius of curvature, direction of principal meridian and corneal refraction power assuming the corneal front surface of human eye as a toroidal surface, by its reflected image, the radius of curvature of the corneal principal meridian and the direction of the corneal principal meridian are measured to obtain the corneal refractive power from the value of radius of curvature by calculation.

Remarks : The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

ISO 10343 : 1997 *Ophthalmic instruments—Ophthalmometers* (MOD)

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of publication is given to these referred standards, only the edition of indicated year constitutes the provision of this Standard but the revision and amendment made thereafter are not applied. The normative references without the indication of the year of publication apply limiting only to the most recent edition (including amendments).

JIS T 0601-1 *Medical electrical equipment—Part 1 : General requirements for safety*

JIS T 1011 *Glossary of terms used in medical electrical equipment (general terms)*

JIS Z 8120 *Glossary of optical terms*

ISO 15004 : 1997 *Ophthalmic instruments—Fundamental requirements and test methods*

3 Definitions For the purposes of this Standard, the definitions given in **JIS T 0601-1**, **JIS T 1011** and **JIS Z 8120** and the following definitions apply.

- a) **radius of curvature** Radius of curvature of the corneal front surface. Expressed in millimeters. The unit symbol is mm.
- b) **principal meridian** Crossing line of the cross section in which the radius of curvature of the corneal front surface becomes maximum and minimum, and the corneal front surface. The set of these two is called both principal meridians.