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Interested committees:

Title: Draft BS ISO 9345 Microscopes - Interfacing dimensions for imaging components.

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Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

DRAFT INTERNATIONAL STANDARD

ISO/DIS 9345

ISO/TC 172/SC 5

Secretariat: DIN

Voting begins on:
2018-02-20

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2018-05-15

Microscopes — Interfacing dimensions for imaging components

Microscopes — Dimensions d'interface pour composants d'imagerie

ICS: 37.020

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 172 "*Optics and photonics*", Subcommittee SC 5 "*Microscopes and endoscopes*".

This first edition of ISO 9345 combines and replaces ISO 9345-1, ISO 9345-2, ISO 8038, and ISO 10937.

Microscopes — Interfacing dimensions for imaging components

1 Scope

This document specifies optically related dimensions for imaging systems and mechanically related dimensions for imaging components of a microscope such as:

- a) the imaging distances of objectives and eyepieces of microscopes with 160 mm mechanical tube length equivalent in air.
- b) the imaging distances of objectives, eyepieces and the focal length of normal tube lenses of microscopes with infinity-corrected optical systems.
- c) the dimensions of screw thread types for connecting a microscope objective to the nosepiece.
- d) the diameters of interchangeable eyepieces and corresponding viewing tubes of microscopes.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10934-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

parfocalizing distance of the objective

l_1

distance in air between the object plane (i.e. the uncovered surface of the object) and the locating flange of the objective, when the microscope is in its working position

Note 1 to entry: See Figure 1, Figure 2 and footnote b in Table 1.

[SOURCE: ISO 10934-1:2002, 2.80.2.4; modified — the symbol l_1 added in the definition; Note from ISO 10934-1:2002 omitted and Note 1 to entry added]

3.2

objective to primary image distance

l_2