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Optics and photonics — Medical endoscopes and endotherapy devices —

Part 6: Vocabulary

Optique et photonique — Endoscopes médicaux et dispositifs d'endothérapie —

Partie 6: Vocabulaire



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Foreword

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ISO 8600-6 was prepared by Technical Committee ISO/TC 172, Optics and photonics, Subcommittee SC 5, Microscopes and endoscopes.

under the general title Optics and photonics — Medical endoscopes ISO 8600 consists of the following parts, and endotherapy devices:

- Part 1: General requirements
- Part 2: Particular requirements for rigid bronchoscopes
- art 1: General.

 Part 2: Particular requirements io.

 Part 3: Determination of field of view and direction of the part 4: Determination of maximum width of insertion portion.

 Part 5: Determination of optical resolution of rigid endoscopes with optics

 4 6: Vocabulary Part 3: Determination of field of view and direction of field of view of endoscopes with optics

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Optics and photonics — Medical endoscopes and endotherapy devices —

Part 6:

Vocabular

Scope

This part of ISO 8600 defines terms for endoscopes and endotherapy devices commonly used in the endoscopic area.

1 Types of endoscopes

1.1

endoscope

medical instrument having viewing means, with or without optics, introduced into a body cavity through a natural or surgically-created body opening for examination, diagnosis or therapy

NOTE 1 Endoscopes may be of rigid or flexible to a lenses or ultrasonic sensors) and different image-transpitting systems (e.g. optical, via lenses or fibre bundles, or electrical).

NOTE 2 IEC 60601-2-18 deals with electrical safety aspects of endoscopic systems and therefore the endoscope is regarded as an applied part of medical electrical equipment introduced into a patient. In IEC 60601-2-18:1996, the endoscope is defined as the "applied part of medical electrical equipment introduced into a patient to provide an internal view or image for examination, diagnosis and/or therapy".

1.2

fiberscope

endoscope (1.1) in which the image is transmitted via a fibre bundle

1.3

rigid endoscope [endotherapy device]

endoscope (1.1) [**endotherapy device** (4.1)] whose insertion portion is intercled to be unyielding to natural or surgically-created body cavities or instrument channels

1.4

flexible endoscope [endotherapy device]

endoscope (1.1) [**endotherapy device** (4.1)] whose insertion portion is intended to conform to natural or surgically-created body cavities or instrument channels

1.5

video endoscope

endoscope (1.1) in which the image is transmitted by a solid state imaging device

1.6

ultrasonic endoscope

ultrasound endoscope

endoscope (1.1) with an electro-acoustical image pick-up system

1.7

telescope

rigid optical device for endoscopic imaging

1.8

rigid bronchoscope

open straight tube-type rigid endoscope (1.3) fitted with a means of illumination through the distal end and intended to be introduced into the tracheobronchial airway, having an internal lumen sufficiently large to permit free respiration of the patient

[ISO 8600-2:2002]

1.9

rigid ventilation bronchosope

rigid bronchoscope (1.8) fitted with a removable end-cap at the proximal end of the open straight tube and ntly large to permit ventilation of the patient through an integral ventilation having an internal lumen suffle connector

[ISO 8600-2:2002]

1.10

rigid jet-ventilation bronchoscope

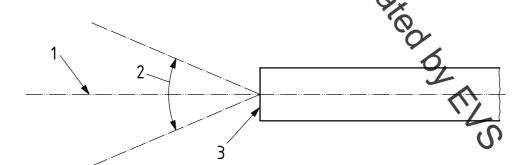
rigid bronchoscope (1.8) provided with a jet-injector

[ISO 8600-2:2002]

2 Optical specifications
2.1
field of view
size of the object field viewed through an optical endoscope (**), expressed as the vertex angle (in degrees) of the cone whose vertex is at the distal window surface of the endoscope

See Figure 1.

be in contact with the object. NOTE The field of view is not appropriate when the endoscope is intended



Key

- central axis of field of view 1
- 2 field of view
- distal window surface of endoscope

Figure 1 — Field of view