



SLOVENSKI STANDARD
oSIST prEN IEC 80601-2-58:2022
01-november-2022

Medicinska električna oprema - 2-58. del: Posebne zahteve za osnovno varnost in bistvene lastnosti naprav za odstranjevanje leč in naprav za vitrektomijo pri očesni kirurgiji

Medical electrical equipment - Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery

Medizinische elektrische Geräte - Teil 2-58: Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale für Geräte zur Linsenentfernung und Geräte zur Glaskörperentfernung in der Augenchirurgie

Appareils électromédicaux - Partie 2-58: Exigences particulières pour la sécurité de base et les performances essentielles des dispositifs de retrait du cristallin et des dispositifs de vitrectomie pour la chirurgie ophtalmique

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SECRETARIAT: United States of America	SECRETARY: Ms Ladan Bulookbashi
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input checked="" type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING Attention IEC-CENELEC parallel voting The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

Medical electrical equipment - Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery

PROPOSED STABILITY DATE: 2028

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MEDICAL ELECTRICAL EQUIPMENT –

**Part 2-58: Particular requirements for the basic safety
and essential performance of lens removal devices
and vitrectomy devices for ophthalmic surgery**

FOREWORD

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This version of IEC 80601-2-58 bears the edition number 3.0. It consists of the third edition (202X-XX) [documents 62D/XXXX/FDIS and 62D/XXXX/RVD].

International standard IEC 80601-2-58 has been prepared by subcommittee 62D: Electromedical equipment, of IEC technical committee 62: Electrical equipment in medical practice, and subcommittee SC 7: Ophthalmic optics and instruments of ISO technical committee 172: Optics and photonics.

It is published as a double logo standard.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

- 97 In this standard, the following print types are used:
- 98 – Requirements and definitions: roman type.
- 99 – *Test specifications: italic type.*
- 100 – Informative material appearing outside of tables, such as notes, examples and references: in smaller type.
101 Normative text of tables is also in a smaller type.
- 102 – TERMS DEFINED IN CLAUSE 3 OF THE GENERAL STANDARD, IN THIS PARTICULAR STANDARD OR AS
103 NOTED: SMALL CAPITALS.
- 104 In referring to the structure of this standard, the term
- 105 – “clause” means one of the seventeen numbered divisions within the table of contents,
106 inclusive of all subdivisions (e.g. Clause 7 includes subclauses 7.1, 7.2, etc.);
- 107 – “subclause” means a numbered subdivision of a clause (e.g. 7.1, 7.2 and 7.2.1 are all
108 subclauses of Clause 7).
- 109 References to clauses within this standard are preceded by the term “Clause” followed by the
110 clause number. References to subclauses within this particular standard are by number only.
- 111 In this standard, the conjunctive “or” is used as an “inclusive or”, so a statement is true if any
112 combination of the conditions is true.
- 113 The verbal forms used in this standard conform to usage described in Annex H of the ISO/IEC
114 Directives, Part 2. For the purposes of this standard, the auxiliary verb:
- 115 – “shall” means that compliance with a requirement or a test is mandatory for compliance
116 with this standard;
- 117 – “should” means that compliance with a requirement or a test is recommended but is not
118 mandatory for compliance with this standard;
- 119 – “may” is used to describe a permissible way to achieve compliance with a requirement or
120 test. <https://standards.iteh.ai/catalog/standards/sist/07d06ea1-b709-4703-ae19-b6033f774b8d/iec-80601-2-58-2022>
- 121 An asterisk (*) as the first character of a title or at the beginning of a paragraph or table title
122 indicates that there is guidance or rationale related to that item in Annex AA.
- 123 A list of all parts of the IEC 60601 series, published under the general title *Medical electrical*
124 *equipment*, can be found on the IEC website.
- 125

126 The committee has decided that the contents of the base publication and its amendment will
127 remain unchanged until the stability date indicated on the IEC web site under
128 "http://webstore.iec.ch" in the data related to the specific publication. At this date, the
129 publication will be

- 130 • reconfirmed,
131 • withdrawn,
132 • replaced by a revised edition, or
133 • amended.

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IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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INTRODUCTION

137 LENS REMOVAL DEVICES and VITRECTOMY DEVICES are used widely in ophthalmology to perform
138 anterior-segment and posterior-segment surgery on the human eye. Commercial use of these
139 MEDICAL ELECTRICAL EQUIPMENT devices began in the early 1970s. This International Standard
140 defines particular requirements for BASIC SAFETY and ESSENTIAL PERFORMANCE of LENS
141 REMOVAL DEVICES and VITRECTOMY DEVICES, comprising an equipment console, surgical
142 HANDPIECES and ACCESSORIES connected to this ME EQUIPMENT.

143 In many parts of the world LENS REMOVAL DEVICES and VITRECTOMY DEVICES are used in
144 combination by ophthalmic surgeons to perform combined anterior-segment (lens removal)
145 and posterior-segment (vitreoretinal) surgical PROCEDURES to maximize surgical outcomes.
146 For this reason both LENS REMOVAL DEVICES and VITRECTOMY DEVICES are covered in this
147 International Standard.

148 As all particular standards in the IEC 60601-1 series are based on the general standard
149 IEC 60601-1, the user of this standard is reminded that RISK MANGEMENT plays an important
150 role in the use of this particular standard. Compliance with the requirements of this particular
151 standard should be documented in the RISK MANAGEMENT FILE to ensure the HAZARDS
152 associated with the product have been considered fully.

153

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INTRODUCTION TO EDITION 3

156 This third edition modifies the content of the second edition including amendment 1 of IEC
157 80601-2-58 published in 2016. This third edition constitutes a technical revision.

158 This amendment includes the following significant technical changes with respect to the
159 second edition including amendment 1:

- 160 a) the alignment of this standard based on the amendment of IEC 60601-1:2005, IEC 60601-
161 1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020;
- 162 b) updating collateral, particular and general standard references to align with amendments
163 to the general standard and other collateral standards;
- 164 c) updated normative references;
- 165 d) Added new requirement for particulate matter from APPLIED PARTS in sub-clause 201.9.5.3;
- 166 e) Adding the shadow light method in sub-clause 201.12.1.101.7;
- 167 f) Clarify test conditions for EMC requirements in sub-clause 202.7.1.2;
- 168 g) Updated Table D.4 references to include specific IEC references to the symbols and delete
169 Annex AA, clause 201.7.6.101;
- 170 h) Include a new annex to address the relevant general safety and performance requirements of
171 European regulation (EU) 2017/745 [1]¹ (Annex BB).

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¹ Numbers in square brackets refer to the Bibliography.

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MEDICAL ELECTRICAL EQUIPMENT –

Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery

182 **201.1 Scope, object and related standards**

183 Clause 1 of the general standard² applies, except as follows:

184 **201.1.1 * Scope**

185 *Replacement:*

186 This International Standard applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE of LENS
187 REMOVAL DEVICES and VITRECTOMY DEVICES for ophthalmic surgery (as defined in 201.3.208
188 and 201.3.217) and associated ACCESSORIES that can be connected to this MEDICAL
189 ELECTRICAL EQUIPMENT, hereafter referred to as ME EQUIPMENT.

190 If a clause or subclause is specifically intended to be applicable to ME EQUIPMENT only, or to
191 ME SYSTEMS only, the title and content of that clause or subclause will say so. If that is not the
192 case, the clause or subclause applies both to ME EQUIPMENT and to ME SYSTEMS, as relevant.

193 HAZARDS inherent in the intended physiological function of ME EQUIPMENT or ME SYSTEMS
194 within the scope of this standard are not covered by specific requirements in this standard
195 except in 7.2.13 and 8.4.1 of the general standard.

196 NOTE See also 4.2 of the general standard.

197 **201.1.2 Object**

198 *Replacement:*

199 The object of this particular standard is to establish particular BASIC SAFETY and ESSENTIAL
200 PERFORMANCE requirements for LENS REMOVAL DEVICES and VITRECTOMY DEVICES for ophthalmic
201 surgery (as defined in 201.3.208 and 201.3.217) and associated ACCESSORIES that can be
202 connected to the ME EQUIPMENT and are to be tested together or individually.

203 NOTE 1 This document has been prepared to address the relevant general safety and performance
204 requirements of European regulation (EU) 2017/745 [1] as indicated in Annex BB.

205 **201.1.3 * Collateral standards**

206 *Addition:*

207 This particular standard refers to those applicable collateral standards that are listed in
208 Clause 2 of the general standard and Clause 201.2 of this particular standard.

209 IEC 60601-1-2:2014 and IEC 60601-1-2:2014/AMD1:2020 applies as modified in Clause 202.
210 IEC 60601-1-3:2008, IEC 60601-1-3:2008/AMD1:2013 and IEC 60601-1-3:2008/AMD2:2021,

² The general standard is IEC 60601-1, *Medical electrical equipment – Part 1: General requirements for basic safety and essential performance*

211 IEC 60601-1-9:2007, IEC 60601-1-9:2007/AMD1:2013 and IEC 60601-1-9:2007/AMD2:2020,
212 IEC 60601-1-10:2007, IEC 60601-1-10:2007/AMD1:2013 and IEC 60601-1-
213 10:2007/AMD2:2020, IEC 60601-1-11:2015 and IEC 60601-1-11:2015/AMD1:2020, and
214 IEC 60601-1-12:2014 and IEC 60601-1-12:2014/AMD1:2020 do not apply.

215 IEC 60601-1-6:2010, IEC 60601-1-6:2010/AMD1:2013 and IEC 60601-1-6:2010/AMD2:2020,
216 and IEC 60601-1-8:2006, IEC 60601-1-8:2006/AMD1:2012 and IEC 60601-1-
217 8:2006/AMD2:2020 shall be assessed for applicability through the RISK MANAGEMENT process.
218 Compliance shall be determined and documented in the RISK MANAGEMENT FILE.

219 **201.1.4 Particular standards**

220 *Replacement:*

221 In the IEC 60601 series, particular standards specify BASIC SAFETY and ESSENTIAL
222 PERFORMANCE requirements for the particular ME EQUIPMENT and ME SYSTEMS. Particular
223 standards may modify, replace or delete requirements contained in the standard and
224 applicable collateral standards as appropriate for the particular ME EQUIPMENT and ME SYSTEMS
225 under consideration. A requirement of a particular standard takes priority over the general
226 standard and applicable collateral standards.

227 For brevity, IEC 60601-1 is referred to in this particular standard as the “general standard”.
228 Collateral standards are referred to by their document number.

229 The numbering of clauses and subclauses of this particular standard corresponds to that of
230 the general standard with the prefix “201” (e.g. 201.1 in this standard addresses the content
231 of Clause 1 of the general standard) or applicable collateral standard with the prefix “20x”
232 where x is the final digit(s) of the collateral standard document number (e.g. 202.4 in this
233 particular standard addresses the content of Clause 4 of the IEC 60601-1-2 collateral
234 standard, 203.4 in this particular standard addresses the content of Clause 4 of the IEC
235 60601-1-3 collateral standard, etc.). The changes to the text of the general standard are
236 specified by the use of the following words:

237 “Replacement” means that the clause or subclause of the general standard or applicable
238 collateral standard is replaced completely by the text of this particular standard.

239 “Addition” means that the text of this particular standard is additional to the requirements of
240 the general standard or applicable collateral standard.

241 “Amendment” means that the clause or subclause of the general standard or applicable
242 collateral standard is amended as indicated by the text of this particular standard.

243 Subclauses, figures or tables which are additional to those of the general standard are
244 numbered starting from 201.101. However, due to the fact that definitions in the general
245 standard are numbered 3.1 through 3.154, additional definitions in this standard are
246 numbered beginning from 201.3.201. Additional annexes are lettered AA, BB, etc., and
247 additional items aa), bb), etc.

248 Subclauses, figures or tables which are additional to those of a collateral standard are
249 numbered starting from 20x, where “x” is the number of the collateral standard, e.g. 202 for
250 IEC 60601-1-2, 203 for IEC 60601-1-3, etc.

251 The term “this standard” is used to make reference to the general standard, any applicable
252 collateral standards and this particular standard taken together.

253 Where there is no corresponding clause or subclause in this particular standard, the clause or
254 subclause of the general standard or applicable collateral standard, although possibly not
255 relevant, applies without modification; where it is intended that any part of the general

256 standard or applicable collateral standard, although possibly relevant, is not to be applied, a
257 statement to that effect is given in this particular standard.

258 **201.2 Normative references**

259 NOTE Informative references are listed in the bibliography beginning on page 41.

260 Clause 2 of the general standard applies, except as follows:

261 *Addition:*

262 IEC 60601-2-2:2017, *Medical electrical equipment – Part 2-2: Particular requirements for the*
263 *basic safety and essential performance of high frequency surgical equipment and high*
264 *frequency surgical accessories*
265 *Amendment 1:202X*

Note to National Committees: IEC 60601-2-2:2017 + Amendment 1 is scheduled as an IS by 2022-06. If this committee (IEC SC 62D / JWG9) is able to review IEC 60601-2-2:2017 Amendment 1 & update this draft standard (80601-2-58) before we submit for the CDV stage vote we will include that version in the draft standard for the CDV vote.

266 IEC 60601-2-22:2019, *Medical electrical equipment – Part 2-22: Particular requirements for*
267 *the basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic*
268 *laser equipment*
269 *Amendment 1:202X(?)*

Note to National Committees: It is unclear when IEC 60601-2-22:2019 + Amendment 1 is scheduled to be drafted (no project open) to align with the general standard IEC 60601-1 Amendments. If this committee (IEC SC 62D / JWG9) is able to review IEC 60601-2-22:2019 + Amendment 1 & update this draft standard (80601-2-58) before the CDV stage vote we will include that version in the draft standard for the CDV vote.

270 CISPR 11:2015, *Industrial, scientific and medical equipment – Radio-frequency disturbance*
271 *characteristics – Limits and methods of measurement*
272 *Amendment 1:2016*
273 *Amendment 2:2019*

274 ISO 15004-2:2007, *Ophthalmic instruments — Fundamental requirements and test methods*
275 *— Part 2: Light hazard protection*

276 ISO 11607-1:2019, *Packaging for terminally sterilized medical devices – Part 1: Requirements*
277 *for materials, sterile barrier systems and packaging systems*

278 ISO 11607-2:2019, *Packaging for terminally sterilized medical devices – Part 2: Validation*
279 *requirements for forming, sealing and assembly processes*

280 ISO 16142-1:2016, *Medical devices — Recognized essential principles of safety and*
281 *performance of medical devices — Part 1: General essential principles and additional specific*
282 *essential principles for all non-IVD medical devices and guidance on the selection of*
283 *standards*

284 ISO 17664:2017, *Sterilization of medical devices – Information to be provided by the*
285 *manufacturer for the processing of resterilizable medical devices*

201.3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 16142-1:2016, IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020 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>NOTE An index of defined terms is found beginning on page 42.

IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012 and IEC 60601-1:2005/AMD2:2020, Clause 3, applies, except as follows:

Addition:

201.3.201**ASPIRATION**

drawing fluid or gas out of the eye by use of suction

201.3.202**DIATHERMY**

surgical technique using high frequency (HF) electrical currents to stop bleeding in tissue

Note 1 to entry: Diathermy is used, for example, to coagulate blood or bind tissues together.

Note 2 to entry: The terms "cautery" or "coagulation" have also been used in this context.

201.3.203**DRAIN CONTAINER**

sealed container (or bag) in which aspirated fluid is collected

201.3.204**ENDOILLUMINATOR**

device consisting of a light source and an associated fibre optic light guide that is intended for insertion into the eye to illuminate any portion of the interior of the eye

[SOURCE: ISO 15004-2:2007, 3.15]

201.3.205**HANDPIECE****PROBE**

handheld APPLIED PART, an ACCESSORY of LENS REMOVAL DEVICES or VITRECTOMY DEVICES

201.3.206**LASER**

any device which can be made to produce or amplify electromagnetic radiation in the wavelength range from 180 nm to 1 mm primarily by the process of controlled stimulated emission

[SOURCE: IEC 60825-1: 2014, 3.44 [4]]

201.3.207**LASER FRAGMENTATION**

method by which the lens is broken into small fragments using LASER energy