SVENSK STANDARD

SS-EN IEC 62676-5-1, utg 1:2025

Fastställd	Sida	Ansvarig kommitté
2025-04-02	1 (19)	SEK TK 79

Larmsystem för videoövervakning (VSS) – Del 5-1: Specifikationer och mätmetoder avseende bildkvalitet för kameror – Miljötest

Video surveillance systems for use in security applications – Part 5-1: Data specifications and image quality performance for camera devices – Environmental test methods for image quality performance

Som svensk standard gäller europastandarden EN IEC 62676-5-1:2024. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 62676-5-1:2024.

Nationellt förord

Europastandarden EN IEC 62676-5-1:2024

består av:

– **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
– **IEC 62676-5-1, First edition, 2024 - Video surveillance systems for use in security applications - Part 5-1: Data specifications and image quality performance for camera devices - Environmental test methods for image quality performance**

utarbetad inom International Electrotechnical Commission, IEC.

Standarden ska användas tillsammans med SS-EN IEC 626.76-5, utg 1:2019.

ICS 13.320.00

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 62676-5-1

September 2024

ICS 13.320

English Version

Video surveillance systems for use in security applications - Part 5-1: Data specifications and image quality performance for camera devices - Environmental test methods for image quality performance (IEC 62676-5-1:2024)

Systèmes de vidéosurveillance destinés à être utilisés dans les applications de sécurité - Partie 5-1: Spécifications des données et performances de la qualité d'image pour les dispositifs de caméra - Méthodes d'essai d'environnement pour les performances de la qualité d'image (IEC 62676-5-1:2024)

Videoüberwachungsanlagen für Sicherungsanwendungen - Teil 5-1: Datenspezifikationen und Bildqualitätsleistung für Kamerageräte - Umweltprüfverfahren für die Bildqualitätsleistung (IEC 62676-5-1:2024)

This European Standard was approved by CENELEC on 2024-08-22. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN IEC 62676-5-1:2024 E

SEK Svensk Elstandard SS-EN IEC 62676-5-1, utg 1:2025

European foreword

The text of document 79/704/FDIS, future edition 1 of IEC 62676-5-1, prepared by TC 79 "Alarm and electronic security systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62676-5-1:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2025-05-22
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-08-22

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document is read in conjunction with EN IEC 62676-5:2018.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 62676-5-1:2024 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60068-2-78	NOTE	Approved as EN 60068-2-78
IEC 62676-1-1	NOTE	Approved as EN 62676-1-1
IEC 62676-2-1	NOTE	Approved as EN 62676-2-1
IEC 62676-3	NOTE	Approved as EN 62676-3
IEC 62676-4	NOTE	Approved as EN 62676-4

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60068-2-1	2007	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	2007
IEC 60068-2-2	2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	2007
IEC 62676-5	2018	Video surveillance systems for use in security applications - Part 5: Data specifications and image quality performance for camera devices	EN IEC 62676-5	2018

IEC 62676-5-1

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Video surveillance systems for use in security applications – Part 5-1: Data specifications and image quality performance for camera devices – Environmental test methods for image quality performance

Systèmes de vidéosurveillance destinés à être utilisés dans les applications de sécurité – Partie 5-1: Spécifications des données et performances de la qualité d'image pour les dispositifs de caméra – Méthodes d'essai d'environnement pour les performances de la qualité d'image

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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VIDEO SURVEILLANCE SYSTEMS FOR USE – IN SECURITY APPLICATIONS –

Part 5-1: Data specifications and image quality performance for camera devices – Environmental test methods for image quality performance

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 62676-5-1 has been prepared by IEC technical committee 79: Alarm and electronic security systems. It is an International Standard.

This International Standard is to be used in conjunction with IEC 62676-5:2018.

The text of this International Standard is based on the following documents:

Draft	Report on voting
79/704/FDIS	79/709/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62676 series, published under the general title *Video surveillance systems for use in security applications*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

The goal of this document is to define the performance test methods for image quality, a feature of video surveillance systems which is subject to change depending on the environmental conditions (temperature and humidity).

VIDEO SURVEILLANCE SYSTEMS FOR USE – IN SECURITY APPLICATIONS –

Part 5-1: Data specifications and image quality performance for camera devices – Environmental test methods for image quality performance

1 Scope

This part of IEC 62676 is an extension of IEC 62676-5 which defines measuring methods for performance values of video surveillance camera equipment and defines image quality tests under the given temperature and humidity environment.

This document is mainly targeting cameras with integrated lenses as the lenses are a major component that can impact the results. If the lens is selectable, the lens will be stated together with the results.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-2-1:2007, *Environmental testing – Part 2-1: Tests – Test A: Cold*

IEC 60068-2-2:2007, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*

IEC 62676-5:2018, *Video surveillance systems for use in security applications – Part 5: Data specifications and image quality performance for camera devices*