SLOVENSKI STANDARD
SIST EN 62676-1-1:2014

01-maj-2014

Video nadzorni sistemi za varnostne aplikacije - 1-1. del: Zahteve za video sistem (IEC 62676-1-1:2013)

Video surveillance systems for use in security applications - Part 1-1: Video system requirements

Systèmes de video surveillance appliqués à la sécurité - Part 1-1: Exigences système

Ta slovenski standard je istoveten z: EN 62676-1-1:2014

ICS:

13.320	Alarmni in opozorilni sistemi	Alarm and warning systems
33.160.40	Video sistemi	Video systems

SIST EN 62676-1-1:2014 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62676-1-1

March 2014

ICS 13.320

English version

Video surveillance systems for use in security applications - Part 1-1: System requirements - General

(IEC 62676-1-1:2013)

Systèmes de vidéosurveillance destinés à être utilisés dans les applications de sécurité -
Part 1-1: Exigences systèmes - Généralités
(CEI 62676-1-1:2013)

Videoüberwachungsanlagen für Sicherheitsanwendungen -
Teil 1-1: Systemanforderungen
(IEC 62676-1-1:2013)

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CENELEC

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 79/432/FDIS, future edition 1 of IEC 62676-1-1, prepared by IEC TC 79 "Alarm and electronic security systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62676-1-1:2014.

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)	2014-09-02
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2016-12-02

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Endorsement notice

The text of the International Standard IEC 62676-1-1:2013 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 standards indicated:

IEC 62676-2 Series	NOTE	Harmonised as EN 62676-2 Series.
ISO/IEC 13818-1	NOTE	Harmonised as EN ISO/IEC 13818-1.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60065	-	Audio, video and similar electronic apparatus - Safety requirements	EN 60065	-
IEC 60068-2-75	-	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	-
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	EN 60529	-
IEC 60950-1	-	Information technology equipment - Safety - Part 1: General requirements	EN 60950-1	-
IEC 61000-6-1	2005	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	EN 61000-6-1	2007
IEC 61000-6-2	2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	EN 61000-6-2 + corr. September	2005 2005
IEC 61000-6-3	-	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	EN 61000-6-3	-
IEC 61000-6-4	-	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	EN 61000-6-4	-
IEC 62262	-	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	EN 62262	-
IEC 62599-1	2010	Alarm systems - Part 1: Environmental test methods	-	-
IEC 62599-2	2010	Alarm systems - Part 2: Electromagnetic compatibility - Immunity requirements for components of fire and security alarm systems	-	-
IEC 62676-4		Video surveillance systems for use in security applications - Part 4: Application guidelines	-	-
ISO 12233	2000	Photography - Electronic still-picture cameras - Resolution measurements	-	-

IEC 62676-1-1

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Video surveillance systems for use in security applications – Part 1-1: System requirements – General

Systèmes de vidéosurveillance destinés à être utilisés dans les applications de sécurité – Partie 1-1: Exigences systèmes – Généralités

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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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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International Standard IEC 62676-1-1 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

The text of this standard is based on the following documents:

FDIS	Report on voting
79/432/FDIS	79/445/RVD

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

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

The reader's attention is drawn to the fact that Annex A lists all of the "in-some-country" clauses on differing practices of a less permanent nature relating to the subject of this standard.

A list of all parts in the IEC 62676, 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 publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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.

INTRODUCTION

The IEC Technical Committee 79 in charge of alarm and electronic security systems together with many governmental organisations, test houses and equipment manufacturers has defined a common framework for video surveillance transmission in order to achieve interoperability between products.

The IEC 62676 series of standards on video surveillance system is divided into 4 independent parts:

Part 1: System requirements

Part 2: Video transmission protocols

Part 3: Analog and digital video interfaces

Part 4: Application guidelines (to be published)

Each part has its own clauses on scope, references, definitions and requirements.

This IEC 62676-1 series consists of 2 subparts, numbered parts 1-1 and 1-2 respectively:

IEC 62676-1-1, *System requirements – General*

IEC 62676-1-2, *System requirements – Performance requirements for video transmission*

The first subpart of this IEC 62676-1 series applies to systems for surveillance of private and public areas. It includes four security grades and four environmental classes.

This IEC Standard is intended to assist Video Surveillance System (VSS) companies, manufacturers, system integrators, installers, consultants, owners, users, insurers and law enforcement in achieving a complete and accurate specification of the surveillance system. This International Standard does not specify the type of technology for a certain observation task.

Due to the wide range of VSS applications e.g. security, safety, public safety, transportation, etc. only the minimum requirements are covered in this standard.

For specific applications e.g. in homeland security, additional requirements need to be applied, which are defined in the annex of this standard.

This IEC Standard is not intended to be used for testing individual VSS components.

Today VSSs reside in security networks using IT infrastructure, equipment and connections within the protected site itself.

VIDEO SURVEILLANCE SYSTEMS FOR USE IN SECURITY APPLICATIONS –

Part 1-1: System requirements – General

1 Scope

This part of IEC 62676 specifies the minimum requirements and gives recommendations for Video Surveillance Systems (VSS), so far called CCTV, installed for security applications. This Standard specifies the minimum performance requirements and functional requirements to be agreed on between customer, law-enforcement where applicable and supplier in the operational requirement, but does not include requirements for design, planning, installation, testing, operation or maintenance. This standard excludes installation of remotely monitored detector activated VSSs.

This IEC Standard also applies to VSS sharing means of detection, triggering, interconnection, control, communication and power supplies with other applications. The operation of a VSS is not be adversely influenced by other applications.

Requirements are specified for VSS components where the relevant environment is classified. This classification describes the environment in which the VSS component may be expected to operate as designed. When the requirements of the four environmental classes are inadequate, due to the extreme conditions experienced in certain geographic locations, special national conditions may be applied (see Annex A).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60065, *Audio, video and similar electronic apparatus – Safety requirements*

IEC 60068-2-75, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60950-1, *Information technology equipment – Safety – Part 1: General requirements*

IEC 61000-6-1:2005, *Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments*

IEC 61000-6-2:2005, *Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments*

IEC 61000-6-3, *Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments*

IEC 61000-6-4, *Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments*

IEC 62262, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)*

IEC 62599-1:2010, *Alarm systems – Part 1: Environmental test methods*

IEC 62599-2:2010, *Alarm systems – Part 2: Electromagnetic compatibility – Immunity requirements for components of fire and security alarm systems*

IEC 62676-4, *Video surveillance systems for use in security applications – Part 4: Application guidelines*[1]

ISO 12233:2000, *Photography – Electronic still-picture cameras – Resolution measurements*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1
access level
level of access to particular functions of the VSS, defining the user rights of an operator, to control and configure the system as well as the access to data on the VSS

3.1.2
acknowledge
action of a user to accept a message or an indication

3.1.3
action
deliberate operation or act by the user which is part of alarm procedure

3.1.4
Advanced Streaming Format
proprietary digital audio/digital video container format, especially meant for streaming media

3.1.5
alarm
warning of the presence of any hazard to life, property or the environment

3.1.6
alarm condition
condition of an alarm system, or part thereof, which results from the response of the system to the presence of a hazard

3.1.7
alarm message
message from the system to an operator, to describe time, type and location of an alarm

3.1.8
alarm procedure
indications and manual or automatic controls as response to an alarm condition

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1 To be published.

3.1.9
alarm receiving centre
continuously manned centre to which information concerning the status of one or more alarm systems is reported

3.1.10
alert
warning addressed to persons for their information or to request intervention (e.g. by police, service personnel) in response to an alarm, tamper or fault

EXAMPLE: Visual-alert, acoustic/ audible-alert, external-alert.

Note 1 to entry: Sometimes the term “alarm warning” is used instead.

3.1.11
alternative device
VSS component of the same type as the primary device

3.1.12
archive
data stored on a long term permanent or partially permanent storage

EXAMPLE: CD’s or digital tapes are considered to be ‘archived’.

3.1.13
area of interest
region in the scene monitored by an image capturing device

3.1.14
audio video interleave format
proprietary multimedia format containing audio and video data in a standard container that allows synchronous audio-with-video playback

3.1.15
authentication
method to verify whether an image has been altered

3.1.16
authorisation
permission to gain access to specified functions or components of a VSS

3.1.17
authorisation codes
physical or logical keys which permit access to VSS functions

3.1.18
automatic number plate recognition
optical character recognition on images to read and extract the alphanumerics of the licence plate of vehicles

3.1.19
automatic teller machine
device that provides a method of financial transactions in public space without the need for a human clerk

3.1.20
auxiliary equipment
video system used not as primary mitigation of the risk