ICS 13.320 SLOVENSKÁ TECHNICKÁ NORMA August 2015

STN	**Obrazové sledovacie systémy na používanie v bezpečnostných aplikáciách. Časť 3: Analógové a digitálne videorozhrania.**	**STN EN 62676-3** 33 4592

Video surveillance systems for use in security applications - Part 3: Analog and digital video interfaces

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/15

Obsahuje: EN 62676-3:2015, IEC 62676-3:2013

121118

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2015
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62676-3

January 2015

ICS 13.320

English Version

Video surveillance systems for use in security applications - Part 3: Analog and digital video interfaces (IEC 62676-3:2013)

Systèmes de vidéosurveillance destinés à être utilisés dans les applications de sécurité - Partie 3: Interfaces vidéo analogiques et vidéo numériques (IEC 62676-3:2013)

Videoüberwachungsanlagen für Sicherungsanwendungen - Teil 3: Analoge und digitale Videoschnittstellen (IEC 62676-3:2013)

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Foreword

This document (EN 62676-3:2015) consists of the text of IEC 62676-3:2013 prepared by IEC/TC 79 "Alarm and electronic security systems".

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) 2016-01-05
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-01-05

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The text of the International Standard IEC 62676-3:2013 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 60874-1:2011	NOTE	Harmonized as EN 60874-1:2012 (not modified).
IEC 61169-8	NOTE	Harmonized as EN 61169-8.
IEC 62676-1-2	NOTE	Harmonized as EN 62676-1-2.
IEC 62676-2-1	NOTE	Harmonized as EN 62676-2-1.
IEC 62676-2-2	NOTE	Harmonized as EN 62676-2-2.
IEC 62676-2-3	NOTE	Harmonized as EN 62676-2-3.

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 1 When 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.cenelec.eu

Publication	Year	Title	EN/HD	Year
IEC 60068-1	1988	Environmental testing - Part 1: General and guidance	EN 60068-1	1994 [1)]
IEC 62315-1	2003	DTV profiles for uncompressed digital video interfaces - Part 1: General	EN 62315-1	2003

VESA Industry Standards & Guidelines for Computer Display Monitor Timing (DMT) Version 1 Revision 11

VESA Video Signal Standard (VSIS) Version 1, Rev. 2

[1)] Superseded by EN 60068-1:2014 (IEC 60068-1:2013): DOW = 2016-11-11.

IEC 62676-3

Edition 1.0 2013-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Video surveillance systems for use in security applications – Part 3: Analog and digital video interfaces

Systèmes de vidéosurveillance destinés à être utilisés dans les applications de sécurité – Partie 3: Interfaces vidéo analogiques et vidéo numériques

IEC 62676-3:2013

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IEC Central Office
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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IEC 62676-3

Edition 1.0 2013-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Systèmes de vidéosurveillance destinés à être utilisés dans les applications de sécurité – Partie 3: Interfaces vidéo analogiques et vidéo numériques

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

PRICE CODE
CODE PRIX

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ICS 13.320

ISBN 978-2-8322-0991-2

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

VIDEO SURVEILLANCE SYSTEMS FOR USE IN SECURITY APPLICATIONS –

Part 3: Analog and digital video interfaces

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 62676-3 has been prepared by technical committee 79: Alarm and electronic security systems.

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

FDIS	Report on voting
79/417/FDIS	79/429/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.

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 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.

INTRODUCTION

The IEC Technical Committee 79 in charge of alarm and electronic security systems together with many governmental organizations, 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 systems is divided into four independent parts:

Part 1: System requirements

Part 2: Video transmission protocols

Part 3: Analog and digital video interfaces

Part 4: Application guidelines

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

This IEC Standard Part 3 of IEC 62676 specifies physical, electrical interface and software specifications of analog and digital video interfaces in Video Surveillance Systems (VSS), so far called Closed Circuit Television (CCTV).

For analog video interfaces, analog video signal such as Composite Video is still the most commonly used interface among Video Surveillance Systems equipment. Though broadcast television industry has adopted composite video standards (e.g. NTSC, PAL), they have not been consistently applied for Video Surveillance Systems applications and it is important to standardize the interface to ensure interoperability between Video Surveillance Systems.

Also, as broadcast is moving towards digital, there are many possibilities to improve the performance with these new Video Interfaces compared to conventional Analog Video Interface, and thus it is important to standardize those new Analog Video interface and also Digital Video Interface to ensure interoperability among Video Surveillance Systems using these new interfaces.

For digital video interface, IEC 62676-1-2, IEC 62676-2-1, IEC 62676-2-2 and IEC 62676-2-3 focus on video transmission and compressed IP video transmissions by specifying internet (IP) and higher layers. IEC 62676-3 completes the communication layer specification by describing uncompressed digital video and two lowest layer protocols such as physical and network access.

VIDEO SURVEILLANCE SYSTEMS FOR USE IN SECURITY APPLICATIONS –

Part 3: Analog and digital video interfaces

1 Scope

This Part of IEC 62676 specifies physical, electrical and software interface (non-IP) specifications of analog and digital video interface in video surveillance systems (so far called CCTV) applications. Video interfaces are used both for connection and transmission of surveillance video, audio and control signals. Through video interfaces, video surveillance systems can be put together by connecting various components such as image capturing devices, image handling devices, etc. This International Standard ensures interoperability among various video surveillance components.

This International Standard applies strictly to Video Surveillance Systems. This standard is based on broadcast television standards and other standards, and it defines the minimum requirements for analog and digital video interfaces to meet VSS's requirements, interoperability and de facto practice.

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 60068-1:1988, *Environmental testing – Part 1: General and guidance*

IEC 62315-1:2003, *DTV profiles for uncompressed digital video interfaces – Part 1: General*

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koniec náhľadu – text ďalej pokračuje v platenej verzii STN