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INTERNATIONAL **STANDARD**

NORME INTERNATIONALE



Video surveillance systems for use in security applications -Part 4: Application guidelines (standards.iteh.ai)

Systèmes de vidéosurveillance destinés à être utilisés dans les applications de sécurité sécurité – https://standards.iteh.ai/catalog/standards/sist/8718dd37-100d-426c-8ba9-Partie 4: Directives d'application88a340e/iec-62676-4-2014





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INTERNATIONAL STANDARD

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Video surveillance systems for use in security applications— Part 4: Application guidelines (Standards.iteh.ai)

Systèmes de vidéosurveillance destinés à être utilisés dans les applications de sécurité – https://standards.itch.ai/catalog/standards/sist/8718dd37-100d-426c-8ba9-Partie 4: Directives d'application 8a340e/iec-62676-4-2014

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

VIDEO SURVEILLANCE SYSTEMS FOR USE IN SECURITY APPLICATIONS –

Part 4: Application guidelines

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International Standard IEC 62676-4 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

This standard is based on EN 50132-7 (2012).

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

FDIS	Report on voting	
79/455/FDIS	79/466/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 the parts in the IEC 62676 series, 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

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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

Each part offers its own clauses for the scope, normative references, definitions and requirements.

The purpose of this part of IEC 62676 is to provide guidance on how to ensure that video surveillance systems (VSS), thus far referred to as closed circuit television (CCTV), meet their functional and performance requirements.

This part of IEC 62676 will prove useful to those responsible for establishing operational requirements, writing specifications, selecting, installing, commissioning, using and maintaining a VSS.

(standards.iteh.ai)

VSS, in its simplest form, is a means of providing images from security cameras and recorders for viewing on a display via a transmission system. There is no theoretical limit to the number of cameras and displays which may be used in a WSS2 installation but in practice will be limited by the efficient combination of control and display equipment and the operator's ability to manage the system.

The successful operation of a VSS requires the active co-operation of the user in carrying out the recommended procedures.

Due to the wide range of VSS applications, for example security, safety, public safety, transportation, etc. only the minimum requirements are covered in this part of IEC 62676.

VIDEO SURVEILLANCE SYSTEMS FOR USE IN SECURITY APPLICATIONS –

Part 4: Application guidelines

1 Scope

This part of IEC 62676 gives recommendations and requirements for the selection, planning, installation, commissioning, maintaining and testing video surveillance systems (VSS) comprising of image capture device(s), interconnection(s) and image handling device(s), for use in security applications.

The objectives of this part of IEC 62676 are to:

- a) provide a framework to assist customers, installers and users in establishing their requirements,
- b) assist specifiers and users in determining the appropriate equipment required for a given application,
- c) provide means of evaluating objectively the performance of the VSS.

iTeh STANDARD PREVIEW

2 Normative references

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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 datest a edition tand the referenced document (including any amendments) applies.

170088a340e/iec-62676-4-2014

IEC 62676-1-1, Video surveillance systems for use in security applications – Part 1-1: System requirements – General

IEC 62676-1-2, Video surveillance systems for use in security applications – Part 1-2: System requirements – Peformance requirements for video transmission

IEC 62676-2-1, Video surveillance systems for use in security applications – Part 2-1: Video transmission protocols – General requirements

IEC 62676-2-2, Video surveillance systems for use in security applications – Part 2-2: Video transmission protocols – IP interoperability implementation based on HTTP and REST services

IEC 62676-2-3, Video surveillance systems for use in security applications – Part 2-3: Video transmission protocols – IP interoperability implementation based on Web services

IEC 62676-3, Video surveillance systems for use in security applications – Part 3: Analog and digital video interfaces

Terms, definitions and abbreviations

3.1 Terms and definitions

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

3.1.1

camera housing

enclosure to provide physical and/or environmental protection of the camera, lens and ancillary equipment

3.1.2

camera sensitivity

image capturing device capability to produce an image in certain light conditions

3.1.3

VSS surveillance installation

installation consisting of the hardware and software components of a VSS, fully installed and operational for monitoring a defined security zone

3.1.4

VSS camera

unit containing an imaging device producing a video signal from an optical image

VSS camera equipment

(standards.iteh.ai)

unit containing a VSS camera plus appropriate lens and necessary ancillary equipment

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VSS control unit

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equipment for controlling and monitoring the required operational functions of the VSS

3.1.7

VSS technician

qualified person who is trained and competent in the installation, maintenance, servicing and fault-finding of VSSs

3.1.8

VSS

system consisting of camera equipment, monitoring and associated equipment for transmission and controlling purposes, which may be necessary for the surveillance of a protected area

3.1.9

corrective maintenance

emergency servicing of a system, or part thereof, carried out in response to the development of a fault

3.1.10

corrective maintenance report

document that details the requirement for normal or emergency corrective maintenance and indicates the corrective action taken, as required by IEC 62676-4 or other applicable technical standards

Note 1 to entry: The report may be an electronic document.

3.1.11

company

organization providing design, installation or maintenance of the VSS system

3.1.12

detect

defined functional purpose of a camera to enable the operator to reliably and easily determine whether or not any target, such as a person, is present.

3.1.13

electronic iris

automatic electronic shutter which changes the camera sensitivity in relation to the varying light conditions in order to maintain the video output signal within defined limits

3.1.14

electronic shutter

arrangement in the camera changing its sensitivity by electronically controlling its exposure time

3.1.15

event recording

event controlled recording or storing of image signals for a pre-determined time

Note 1 to entry: refers to video recording not to system log of events.

3.1.16

(standards.iteh.ai) external synchronisation

method of feeding reference timing signals to all connected devices to ensure that their video output signals are synchronous IEC 62676-4:2014

> https://standards.iteh.ai/catalog/standards/sist/8718dd37-100d-426c-8ba9a770088a340e/iec-62676-4-2014

3.1.17

focal length

measurement of the converging power of a lens, normally expressed in mm, which can be used to determine the angle of view for a given sensor size

3.1.18

geo data

digital information assigning a certain spatial location to the earth's surface

3.1.19

identify

defined functional purpose of a camera to enable identifyfication of an individual beyond reasonable doubt

3.1.20

inspect

defined functional purpose of a camera to enable the operator to obtain information from objects

Note 1 to entry: An example object may include text or a logo on clothing.

3.1.21

imaging device

device that converts an optical image into an electrical signal

3.1.22

imaging device illumination

level of illumination (luminance) at the photosensitive surface of the imaging device

3.1.23

iris

variable aperture mechanism which regulates the amount of light passing through the lens onto the imaging device of the VSS camera

3.1.24

Kell factor

subjective number of lines of resolution that can be visually perceived in a video display system, expressed as a percentage of the total number of lines of resolution

3.1.25

lens

optical device for projecting an image of a desired scene onto the photo sensitive surface of the imaging device

3.1.26

monitor

defined functional purpose of a camera to enable viewing of the number, direction and speed of movement of people across a wide area, providing their presence is known to the operator

3.1.27

NTSC

NTSC resolution

standard-definition video mode referring in digital applications to 486 lines or 720 × 486 pixels ITEN STANDARD PREVIEW

3.1.28

(standards.iteh.ai) image presentation device

device for converting video signals into pictures on a display screen

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3.1.29

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a770088a340e/iec-62676-4-2014 observe

defined functional purpose of a camera enabling characteristic details of an individual, such as distinctive clothing to be seen, whilst allowing a view of activity surrounding an incident

3.1.30

pan and tilt unit

motorised unit permitting the horizontal and vertical positioning of the camera equipment

3.1.31

PAL

PAL resolution

standard-definition video mode referring in digital applications to 576 lines or 720 × 576 pixels

3.1.32

pan, tilt, zoom

PTZ

function of a camera permitting the horizontal, vertical positioning of the camera together with the angle of view

3.1.33

picture storage

storing of fixed or video images

3.1.34

preventive maintenance

routine servicing of a system, carried out on a scheduled basis

3.1.35

preventative maintenance report

document which records the preventive maintenance carried out in accordance with IEC 62676-4 or other applicable technical standard

Note 1 to entry: The report may be an electronic document.

3.1.36

recognise

defined functional purpose of a camera to enable the operator to obtain recognition of an individual

3.1.37

risk assessment

systematic process to determine the impact of the consequences of hazards and threats relative to their probability

Note 1 to entry: The result of the analysis provides the basis for risk evaluation within a risk management process.

3.1.38

risk management

culture, processes and structures that are directed towards the effective management of potential opportunities and adverse effects

3.1.39 iTeh STANDARD PREVIEW

risk management process

systematic application of management policies, procedures and practices to the tasks of establishing the context, identifying, analysing, evaluating, treating, monitoring and communicating risk

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3.1.40

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scene illumination

level of illumination (luminance) on the area to be kept under surveillance

3.1.41

site plan

pictorial representation of the protected area showing the location and intended views of the VSS cameras

3.1.42

system design proposal

specification of the system design including location factors, site plan, field of view, detector range and coverage and control room design

3.1.43

time lapse recording

periodic recording of video images at pre-defined intervals

3.1.44

video signal

video channel being transmitted, streaming or not streaming, analog or digital

3.1.45

video signal amplitude

magnitude of the video signal