

Australian/New Zealand Standard™

**Video surveillance systems for use in
security applications**

**Part 1.1: System requirements —
General (IEC 62676-1-1:2013, MOD)**



AS/NZS 62676.1.1:2020

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee EL-031, Intruder Alarm Equipment and Installations. It was approved on behalf of the Council of Standards Australia on 18 March 2020 and by the New Zealand Standards Approval Board on 5 February 2020.

This Standard was published on 24 April 2020.

The following are represented on Committee EL-031:

- Australian Digital & Telecommunications Industry Association
- Australian Federal Police
- Australian Industry Group
- Australian Security Industry Association
- Engineers Australia
- Fire Protection Association Australia
- Insurance Council of Australia
- New Zealand Security Association
- NSW Police Force
- Queensland Police Service
- Security Providers Association of Australia
- South Australia Police
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This Standard was issued in draft form for comment as DR AS/NZS IEC 62676.1.1:2019.

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ISBN 978 1 76072 829 8

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First published as AS/NZS 62676.1.1:2020.

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-031, Intruder Alarm Equipment and Installations.

The objective of this Standard is to specify 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 also applies to VSS sharing means of detection, triggering, interconnection, control, communication and power supplies with other applications.

This Standard excludes installation of remotely monitored detector activated VSSs.

This Standard is an adoption with national modifications, and has been reproduced from, IEC 62676-1-1:2013, *Video surveillance systems for use in security applications — Part 1-1: System requirements — General*. The modifications are additional requirements and are set out in Appendix ZZ, which has been added at the end of the source text.

Appendix ZZ lists the variations to IEC 62676-1-1:2013 for the application of this Standard in Australia and New Zealand.

As this document has been reproduced from an International Standard, the following applies:

- (a) In the source text “this part of IEC 62676” should read “this Australian/New Zealand Standard”.
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Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

NOTES

CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms, definitions and abbreviations	8
3.1 Terms and definitions	8
3.2 Abbreviations	22
4 Functional description of the VSS.....	23
4.1 VSS.....	23
4.2 Video environment	23
4.2.1 General	23
4.2.2 Image capture	24
4.2.3 Interconnections	24
4.2.4 Image handling	24
4.3 System management.....	25
4.3.1 General	25
4.3.2 Data management	25
4.3.3 Activity management	26
4.3.4 Interfaces to other systems.....	27
4.4 System security.....	28
4.4.1 General	28
4.4.2 System integrity.....	28
4.4.3 Data integrity.....	28
5 Security grading	28
6 Functional requirements	30
6.1 Video environment	30
6.1.1 Image capture	30
6.1.2 Interconnections	30
6.1.3 Image handling	31
6.2 System management.....	36
6.2.1 Operation	36
6.2.2 Activity and information management	36
6.2.3 Interfacing to other systems.....	38
6.3 System security.....	38
6.3.1 General	38
6.3.2 System integrity.....	38
6.3.3 Image and data integrity	43
6.4 Environmental requirements	44
6.4.1 VSSs as primary mitigation of the risk	44
6.4.2 VSSs as secondary mitigation of the risk	44
6.5 Image quality.....	45
7 Environmental classes.....	46
7.1 General	46
7.2 Environmental Class I – Indoor, but restricted to residential/office environment	46
7.3 Environmental Class II – Indoor – General	46

7.4	Environmental Class III – Outdoor, but sheltered from direct rain and sunshine, or indoor with extreme environmental conditions	46
7.5	Environmental Class IV – Outdoor – General.....	46
8	Documentation	47
8.1	System documentation	47
8.2	Instructions relating to operation	47
8.3	System component documentation	47
	Annex A (normative) Special national conditions.....	48
	Annex B (informative) Video export in homeland security systems	49
	Bibliography.....	50
	Figure 1 – VSS	23
	Figure 2 – Example for VSS.....	24
	Figure 3 – Activity management.....	27
	Figure 4 – Risk and security grades	29
	Figure 5 – Reference to ISO 12233 resolution measurement chart (unit in ×100 lines).....	45
	Table 1 – Storage	31
	Table 2 – Archiving and backup	33
	Table 3 – System logs	38
	Table 4 – Monitoring of interconnections.....	39
	Table 5 – Tamper detection	40
	Table 6 – Level of access	41
	Table 7 – Authorisation code requirements	42
	Table 8 – Data access	42
	Table 9 – Access to system logs.....	42
	Table 10 – Access to system set-up.....	43
	Table 11 – Data labelling	43

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**VIDEO SURVEILLANCE SYSTEMS FOR
USE IN SECURITY APPLICATIONS –**
Part 1-1: System requirements – General

FOREWORD

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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 to 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*