

INTERNATIONAL STANDARD

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**Video surveillance systems for use in security applications -
Part 6: Performance testing and grading of real-time intelligent video content
analysis devices and systems for use in video surveillance applications**

**Systèmes de vidéosurveillance destinés à être utilisés dans les applications de
sécurité -
Partie 6: Essai de performance et classification des dispositifs et systèmes
d'analyse intelligente en temps réel de contenus vidéo destinés aux applications
de vidéosurveillance**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Video surveillance systems for use
in security applications -
Part 6: Performance testing and grading of real-time
intelligent video content analysis devices and systems
for use in video surveillance applications**

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

| | |
|-------------|------------------|
| Draft | Report on voting |
| 79/708/FDIS | 79/740/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.

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INTRODUCTION

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

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

Part 1: System requirements

Part 2: Video transmission protocols

Part 3: Analogue and digital video interfaces

Part 4: Application guidelines

Part 5: Data specifications and image quality performance for camera devices

Part 6: Performance testing and grading of real-time intelligent video

This document is organised as follows:

The introduction and preliminaries, such as understanding the common terms, abbreviations, etc., agreed between all regions are presented in Clause 1 to 5.10.

In Clause 6 to 6.7.3 the fundamentals of the testing framework are explained, such as the core, complex and degree of difficulty measures, the XML/JSON test data that annotates the event information and the methodology that underlines the process.

In 6.8 to 6.8.11 elements of the testing process are explained.

In 6.9 to 13.9.12 further details on the application of core, complex and application of the degree-of-difficulty are explained.

From Clause 14 to 17.6 the testing and grading aspects are explained.

Lastly the Annexes contain further information from all contributors explaining the tests, outcomes, technical basis, details of some essential processes, footage repositories and backup information that might be useful to fully exploit the offering in this document.