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**Video surveillance systems for use in security applications –
Part 5: Data specifications and image quality performance for camera devices**

**Systèmes de vidéosurveillance destinés à être utilisés dans les applications de
sécurité –
Partie 5: Spécifications des données et performances de la qualité d'image pour
les dispositifs de caméra**



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

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

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CONTENTS

FOREWORD.....	7
INTRODUCTION.....	9
1 Scope.....	10
2 Normative references	10
3 Terms, definitions and abbreviations	11
3.1 Terms and definitions.....	11
3.2 Abbreviations	21
4 Description of video surveillance camera specification items	22
4.1 General.....	22
4.2 Camera.....	22
4.2.1 Image sensor.....	22
4.2.2 Maximum resolution.....	25
4.2.3 Minimum illumination	25
4.2.4 Signal to noise ratio (SNR, S/N ratio).....	26
4.2.5 White balance.....	26
4.2.6 Electronic shutter.....	27
4.2.7 Electronic sensitivity up (Slow shutter).....	27
4.2.8 Dynamic range (DR)	28
4.2.9 Visible dynamic range (VDR)	28
4.2.10 Infra-red illumination operating view distance	28
4.2.11 Day/Night mode (D/N).....	29
4.2.12 Internal image processing performance	29
4.3 Lens	30
4.3.1 Focal length.....	30
4.3.2 Relative aperture (F-number)	30
4.3.3 Field of view	30
4.3.4 Image distortion.....	31
4.3.5 Iris control	31
4.3.6 Mount type	31
4.3.7 Image flare	32
4.4 Input / Output	32
4.4.1 Video output	32
4.4.2 Auto-iris lens output.....	32
4.5 Video output format	33
4.5.1 Image format standard.....	33
4.5.2 Colour representation	33
4.5.3 Output image pixel number	33
4.5.4 Output image resolution.....	34
4.6 Pan and tilt	34
4.6.1 Rotation angle	34
4.6.2 Rotation speed	34
4.6.3 Preset position function	35
4.6.4 Preset position accuracy.....	35
4.6.5 Audible noise.....	35
4.7 Network	36
4.7.1 Network interface.....	36
4.7.2 Image and video compression format.....	36

4.7.3	Bit rate control	36
4.7.4	Maximum frame rate	37
4.7.5	Maximum number of encoding streams	37
4.7.6	Multicast streaming	38
4.7.7	Maximum number of connections	38
4.7.8	Total encoding performance	38
4.7.9	Image stream delay (Latency)	38
4.7.10	Camera storage (Local storage)	39
4.7.11	Audio function	39
4.7.12	Network protocol	39
4.7.13	Camera time synchronization and localization	40
4.8	Network security	40
4.8.1	General description	40
4.8.2	Network authentication	40
4.8.3	Video authentication and watermarking	41
4.9	Other specifications	41
5	Measurement methods of video surveillance camera specification items	41
5.1	Setting of standard shooting condition	41
5.1.1	General	41
5.1.2	Common standard shooting condition	42
5.2	Video signal quantization level	44
5.2.1	General	44
5.2.2	Digital video signal quantization level	44
5.2.3	Other quantization levels	44
5.3	Measurement environment	44
5.3.1	General	44
5.3.2	Test chart	45
5.3.3	Software for measurement	48
5.4	Measuring methods	48
5.4.1	General	48
5.4.2	Resolution	48
5.4.3	Minimum illumination	56
5.4.4	Dynamic range	59
5.4.5	Visible dynamic range (VDR)	67
5.4.6	Infra-red illumination operating view distance	70
5.4.7	Image distortion	73
5.4.8	Image flare	77
5.4.9	Capture frame rate	84
Annex A (normative)	Sine wave star test chart	88
Annex B (informative)	Infra-red illuminator safety requirements according to IEC 62471	91
B.1	General	91
B.2	Declaration of the hazard distance	91
B.3	Other information to be declared	92
B.4	Item indication	92
B.5	Content indication	92
Annex C (informative)	Low light performance method	93
C.1	General	93
C.1.1	General	93

C.1.2	Test chart	93
C.1.3	Creation of the coloured dead leaves structure	94
C.1.4	Capturing a reference image.....	94
C.1.5	Capture of the test images.....	94
C.1.6	Image quality aspects affected by low light	94
C.1.7	Presentation of the results	96
C.2	Example for generating a single performance value from measured results.....	96
C.3	Description of test chart example	97
C.3.1	General	97
C.3.2	Chart sizes and background	98
C.3.3	Sine wave modulated starburst patterns	98
C.3.4	OECF patches	98
C.3.5	Colour patches	98
C.3.6	Dead leaves	100
C.3.7	Slanted edges and visual structures	101
C.3.8	Small sine wave modulated starburst patterns	101
C.3.9	Centre marks.....	101
Annex D (informative)	Streaming bit rate (bit-stream).....	102
D.1	General.....	102
D.2	Description	102
D.3	Uncompressed and compressed video streams.....	102
D.4	Content indication.....	103
D.4.1	General	103
D.4.2	Video streaming in a system.....	103
D.4.3	Network traffic analysis (NTA)	103
D.5	Measuring the video streaming	104
D.5.1	General	104
D.5.2	The procedure of measuring streaming bit rate in a system	104
Annex E (informative)	IP video latency measurement.....	107
E.1	General.....	107
E.2	Description	107
E.3	Visual perception of the latency	109
E.4	Measurement procedure for IP video latency	109
E.5	Content indication.....	110
Annex F (informative)	Motion blur measurement	111
F.1	General.....	111
F.2	Description	111
F.3	Projected pixel shift (PPS) due to moving objects	111
F.4	Content indication.....	111
F.5	Calculating the projected pixel shift of moving objects	112
F.6	Calculating the projected pixel shift of moving objects at various angles	113
F.7	Acceptable PPS.....	113
F.8	Test chart measuring of moving objects	114
Annex G (informative)	SD/HD test target example.....	118
Annex H (informative)	UL test chart implementations	119
Annex I (informative)	Explanation of image flare from light source within and outside of camera field of view	120
I.1	Image flare of light source within the field of view	120

I.2 Image flare of light source outside of the field of view	120
Bibliography.....	122
Figure 1 – Test set-up for reflective test chart.....	45
Figure 2 – Test set-up for transparent test chart	46
Figure 3 – Test set-up for fixture with lamps	47
Figure 4 – Alignment of the camera with the target plane using a mirror	48
Figure 5 – IEC 61146-1 No. 4 and No. 5 (Resolution chart).....	49
Figure 6 – ISO 12233:2000 Resolution test chart	50
Figure 7 – Sine wave modulated starburst pattern test chart	51
Figure 8 – The star is divided into eight segments for the analysis.....	53
Figure 9 – The star is analysed radius by radius, equivalent to frequency by frequency	53
Figure 10 – The pixels along a specific radius are located	54
Figure 11 – Digital code values as a function of the angle.....	54
Figure 12 – Calculation of the contrast of the sine curve	55
Figure 13 – Example of grey scale test chart	57
Figure 14 – Example of OECF transparent test chart	57
Figure 15 – Signal difference between white area and black surrounding.....	58
Figure 16 – Example of lamp fixture.....	60
Figure 17 – Possible arrangements of luminance levels.....	61
Figure 18 – Graphical presentation of results.....	67
Figure 19 – Example of signal level	69
Figure 20 – Graphical presentation of results	70
Figure 21 – White chart.....	71
Figure 22 – Camera positioning	71
Figure 23 – Video level	72
Figure 24 – Conversion measurement using electronic shutter.....	73
Figure 25 – Regular grid (square lines) in the scene is distorted and the red diamonds mark the position of the intersections in the image produced by the camera	74
Figure 26 – Line grid pattern chart	75
Figure 27 – Schematic drawings for measuring the horizontal line distortion	77
Figure 28 – Schematic drawings for measuring the vertical line distortion	77
Figure 29 – Example test chart with multiple black areas (“Dot pattern chart”)	79
Figure 30 – Set-up of image flare device.....	80
Figure 31 – Image flare lamp for cameras with small field of view (large focal length)	81
Figure 32 – Image flare lamp for cameras with large field of view (short focal length)	81
Figure 33 – Evaluation area	83
Figure 34 – Frame rate test target.....	85
Figure A.1 – Sine wave test chart (multiple target version).....	88
Figure C.1 – An example for a multipurpose test chart with frame rate tester	93
Figure C.2 – An example for a multipurpose test chart	98
Figure D.1 – Network connection for video streaming measurement	105
Figure D.2 – An example graph of network traffic.....	106
Figure E.1 – Comparison of image compression and video compression.....	107

Figure E.2 – Example of GOP	108
Figure E.3 – Video latency	110
Figure F.1 – Motion blur due to moving objects	111
Figure F.2 – Calculation of projected pixel shift.....	112
Figure F.3 – Movement in various angles.....	113
Figure F.4 – Measuring of moving objects.....	115
Figure F.5 – Example of moving test chart	117
Figure G.1 – SD/HD test target example	118
Figure I.1 – Image flare from a light source within the camera field of view	120
Figure I.2 – Image flare from a light source outside of the camera field of view	121
Table 1 – Lighting condition	42
Table 2 – Relation of illuminance and luminance.....	43
Table 3 – Standard camera settings.....	43
Table 4 – Digital video signal quantization level	44
Table 5 – Camera settings for resolution.....	49
Table 6 – Camera settings for minimum illumination	56
Table 7 – Camera settings for dynamic range	59
Table 8 – Example results of dynamic range measurement	65
Table 9 – Camera settings for visible dynamic range	68
Table 10 – Camera settings for IR illumination operating view distance	70
Table 11 – Camera settings for image flare.....	78
Table 12 – Camera settings for capture frame rate	85
Table A.1 – Features of sine wave test chart	89
Table A.2 – Design of sine wave star test chart.....	90
Table C.1 – Results table of an example camera	96
Table C.2 – Results table of another example camera	97

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**VIDEO SURVEILLANCE SYSTEMS FOR USE
IN SECURITY APPLICATIONS –**
**Part 5: Data specifications and image
quality performance for camera devices**

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FDIS	Report on voting
79/607/FDIS	79/609/RVD

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

This document 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.

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INTRODUCTION

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 five independent parts:

Part 1: System requirements

Part 2: Video transmission protocols

Part 3: Analog and digital video interfaces

Part 4: Application guidelines

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

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

The purpose of this part of IEC 62676 is to specify representation and measuring methods of performance values to be described in materials such as instruction manuals, brochures and specifications of video surveillance camera equipment, and provide convenience for users, installers, integrators and maintenance companies, etc.

VIDEO SURVEILLANCE SYSTEMS FOR USE IN SECURITY APPLICATIONS –

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

1 Scope

This part of IEC 62676 defines recommendations and requirements for representation and measuring methods of performance values to be described in materials such as instruction manuals, brochures and specifications of video surveillance camera equipment.

This document consists of two parts. The first part is requirements for description of video surveillance camera specification items. The second part is requirements for measurement methods of video surveillance camera specification items.

A video surveillance camera's output can be analogue (e.g. composite video such as NTSC or PAL) or digital (e.g. compressed network output, uncompressed SDI (serial digital output), etc.).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60825-1, *Safety of laser products – Part 1: Equipment classification and requirements*

IEC 61146-1, *Video cameras (PAL/SECAM/NTSC) – Methods of measurement – Part 1: Non-broadcast single-sensor cameras*

IEC 62471, *Photobiological safety of lamps and lamp systems*

IEC 62676-1-2:2013, *Video surveillance systems for use in security applications – Part 1-2: System requirements – Performance requirements for video transmission*

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

ISO 14524, *Photography – Electronic still picture cameras – Methods for measuring opto-electronic conversion functions (OECFs)*

ITU-R Recommendation BT.601, *Studio encoding parameters of digital television for standard 4:3 and wide-screen 16:9 aspect ratios*

ITU-R Recommendation BT.709, *Parameter values for the HDTV standards for production and international programme exchange*