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STANDARDS
Australia



Photography — Electronic still picture imaging terminology

Part 1: Supplemental vocabulary



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AS ISO 12231.1:2022

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Art Gallery of New South Wales
Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Institute of Professional Photography
Australian War Memorial
Data61 (CSIRO)
State Library of New South Wales
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University of Technology Sydney
Western Sydney University

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Preface

This Standard was prepared by the Standards Australia Committee MS-065, Photography, to supersede AS ISO 12231:2015, *Photography — Electronic still picture imaging — Vocabulary*.

The objective of this document is to define terms used in electronic still picture imaging that have not been defined by other Standards, Technical Specifications or Technical Reports.

This document is identical with, and has been reproduced from, ISO 12231-1:2020, *Photography — Electronic still picture imaging terminology — Part 1: Supplemental vocabulary*.

As this document has been reproduced from an International document, a full point substitutes for a comma when referring to a decimal marker.

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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.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 42, *Photography*.

This first edition of ISO 12231-1 cancels and replaces the third edition (ISO 12231:2012), which has been technically revised. The main changes compared to the previous edition are as follows:

- ISO 12231 was renamed ISO 12231-1;
- the formatting has been switched from a comprehensive vocabulary standard to a supplemental vocabulary standard, supplementing the ISO Online Browsing Platform;
- unlike previous editions of this document, this edition no longer includes terms and definitions that were defined by other ISO/TC 42 deliverables (Standards, Technical Specifications or Technical Reports).

Therefore, from this edition, this document consists of:

- a) originally-defined terms and definitions, and
- b) useful terms and definitions for electronic still picture imaging that are referred from other standard bodies outside of ISO/TC 42.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Electronic still picture imaging concepts are drawn from traditional photography, electronics, video, and information technology. In some cases, the concepts are redefined to apply to electronic still picture imaging. For example, unlike traditional photography, measurements cannot be defined in terms of “film” or “sensitised material”, since images acquired by digital image capture devices are stored electronically and are not immediately exposed on film. The meaning of shutter and exposure time is also different for digital image capture devices, because an electronic imaging sensor typically has image acquisition characteristics that are different from those of film.

This document provides a vocabulary which standardizes the use and meaning of terms associated with electronic still picture imaging that were not defined by other ISO/TC 42 deliverables (see [Annex A](#) for a list of related WGs and documents). It is organized alphabetically and follows natural (English) word order wherever possible.

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NOTES

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Australian Standard[®]

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1 Scope

This document defines terms used in electronic still picture imaging that have not been defined by other ISO/TC 42 standards, Technical Specifications or Technical Reports.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

aliasing ratio

value equal to the “maximum minus minimum” modulation divided by the “average” modulation of an electronic still picture camera when imaging a frequency burst of constant spatial frequency

[SOURCE: ISO 12231:2012, 3.8]

Note 1 to entry: This term was originally defined in ISO 12233, and was adopted to ISO 12231:1997.

3.2

application

image application software for use on a personal computer

[SOURCE: ISO 12231:2012, 3.9]

Note 1 to entry: This term was originally defined in the past edition of ISO 12234-3, and was adopted to ISO 12231:2005.

3.3

colour sequential exposure

acquisition of a picture by combining repeated exposures to capture different colour components

Note 1 to entry: *Colour sequential exposure* can be by means of three colour illuminations, or by three colour filters.

[SOURCE: ISO 12231:2012, 3.52.2]

Note 2 to entry: This term was originally defined in the past edition of ISO 12232, adopted to ISO 12231:1997 and was modified at ISO 12231:2005.

3.4

exposure process

various methods to capture images in the electronic still picture camera

[SOURCE: ISO 12231:2012, 3.52]

Note 1 to entry: This term was originally defined in the past edition of ISO 12232, and was adopted to ISO 12231:1997.