INTERNATIONAL STANDARD

ISO 12231-1

First edition
2020-12

Photography — Electronic still picture imaging terminology —

Part 1: Supplemental vocabulary

Photographie — Terminologie des prises de vue électroniques —

Partie 1: Vocabulaire supplémentaire

This document is a preview generated by EVS

Reference number
ISO 12231-1:2020(E)

© ISO 2020

This document is a preview generated by EVS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword ..... **iv**
Introduction ..... **v**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
Annex A (informative) **List of WGs related to electronic still picture imaging inside TC 42, and their responsible ISO deliverables** **4**

This document is a preview generated by EVS

© ISO 2020 – All rights reserved

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.

This document is a preview generated by EVS

 © ISO 2020 – All rights reserved

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.

This document is a preview generated by EVS

© ISO 2020 – All rights reserved

This document is a preview generated by EVS

Photography — Electronic still picture imaging terminology —

Part 1: Supplemental vocabulary

This document is a preview generated by EVS

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.

© ISO 2020 – All rights reserved