

საქართველოს სტანდარტი

ფოტოგრაფია - ციფრული ფოტოაპარატები - გადაღების დროის
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ინტერვალის და გაშვების დროის ინტერვალის გაზომვა

საქართველოს სტანდარტებისა და მეტროლოგიის
ეროვნული სააგენტო
თბილისი

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4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2020 წლის 30 აპრილი №268-1.3-017116

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**Photography — Digital still cameras —
Measuring shooting time lag, shutter
release time lag, shooting rate, and
start-up time lag**

*Photographie — Caméras numériques — Décalage dans le temps du
mesurage de la prise, décalage dans le temps de l'ouverture de
l'objectif, cadence de prise et temps de démarrage*





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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Test conditions	3
4.1 Illumination of the test scene	3
4.2 The chart and positioning of the digital still camera	4
4.3 Battery status	5
4.4 Memory card	5
4.5 Flash	5
4.6 Image stabilization	5
4.7 Other camera settings	5
5 Measurements	6
5.1 Definition of measurement	6
5.1.1 General	6
5.1.2 Measurement with external controls	7
5.1.3 Measurement with internal controls	7
5.2 Measurement method	8
5.2.1 Start-up time	8
5.2.2 Shooting time lag	9
5.2.3 Shutter release time lag	10
5.2.4 Shooting rate	10
6 Reporting the results	11
Annex A (informative) Test results of methods to start the timing device	13
Annex B (informative) Timing device	15
Annex C (informative) Measurement with internal controls	21
Annex D (informative) Examples of reporting the result	28
Annex E (informative) Estimation of the measurement accuracy	30
Annex F (informative) Example setup for measuring the shooting time lag for cameras with continuous autofocus	32
Bibliography	36

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).

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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 42, *Photography*.

This third edition cancels and replaces the second edition (ISO 15781:2015), which has been technically revised.

The main changes compared to the previous edition are as follows:

- Current scope includes digital still cameras that continuously shoot images into the buffer and select an image depending on the moment the exposure button is pressed.

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

Taking pictures of a moving target was nearly impossible in the early days of digital photography. After pressing the exposure button it took a significant amount of time to capture the image and the chance to preserve the desired moment was gone.

Part of the time between pressing the exposure button and the exposed picture is needed to focus, another part is needed to adjust the exposure, etc. This unwelcome but unavoidable period of time is called shooting time lag. This is often mixed with the term shutter release time lag, which is also defined in this document. Optimized systems are nowadays able to decrease these time lags.

Capturing the different stages of a fast moving object is sometimes very important especially in areas like sports or people photography. This high shooting rate requires fast image processing within the digital still camera that can be measured according to the method described in this document.

When a photographer decides to capture an image of a changing scene, if his or her digital still camera takes a long time to be ready to shoot once it is turned on, the opportunity to capture the image is lost. This time named start-up time lag is therefore another important value, which can be determined using this document.