

Photography — Electronic scanners for photographic images — Dynamic range measurements

ICS 37.040.10

National foreword

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The UK participation in its preparation was entrusted to Technical Committee CPW/42, Photography, which has the responsibility to:

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- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 14, an inside back cover and a back cover.

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Amendments issued since publication

Amd. No.	Date	Comments

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 September 2004

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ISBN 0 580 44528 3

INTERNATIONAL STANDARD

ISO
21550

First edition
2004-10-01

Photography — Electronic scanners for photographic images — Dynamic range measurements

*Photographie — Scanners électroniques pour images
photographiques — Mesurages d'intervalles dynamiques*



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Foreword

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ISO 21550 was prepared by Technical Committee ISO/TC 42, *Photography*.

Introduction

The use of scanners to provide digital image files is rapidly growing. A standard is needed in order to measure the ability of scanners to capture tones especially in the dark areas of the original. At the present time most manufacturers calculate the dynamic range from the bit depth of the implemented A/D conversion which is usually higher than the actual capabilities of the scanner. This International Standard can be used for photofinishing, professional, graphic arts and consumer scanners.

This International Standard specifies methods for measuring the ability of scanners to capture tones especially in the dark areas of the original. The scanner measurements described in this International Standard are performed in the digital domain, using digital analysis techniques. A test chart of appropriate size and characteristics is scanned and the resulting data is analysed. The test chart described in this International Standard is designed specifically to evaluate continuous tone film and reflection scanners. It is not designed for evaluating electronic still-picture cameras, video cameras, or bi-tonal document scanners.

