ISO 14524:2009-02 (E)

Photography - Electronic still-picture cameras - Methods for measuring opto-electronic conversion functions (OECFs)

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Test methods 3
4.1 General 3
4.2 Camera OECF measurement 4
4.3 Focal plane OECF measurement (method A) 4
4.4 Alternative focal plane OECF measurement (method B) 4

5 Illumination 5
5.1 Focal plane OECF measurement (method A) 5
5.2 Alternative focal plane (method B) and camera OECF measurement 5

6 Test conditions 5
6.1 Temperature and relative humidity 5
6.2 White balance (only applicable to colour cameras) 5
6.3 Infrared-blocking (IR-blocking) filter 6
6.4 Focus 6

7 Input 7
7.1 Focal plane log exposures 7
7.2 Camera OECF chart log luminances 7

8 Data analysis 8

9 Presentation of results 8
9.1 General 8
9.2 Tabular presentation 9
9.3 Graphical presentation 11

Annex A (normative) ISO 14524 camera OECF test chart 13

Annex B (informative) Relevance of the ISO 7589 spectral distribution index 20

Annex C (informative) Reporting of the camera OECF in relative reflectance units 22

Bibliography 23