ISO/PAS 13473-6:2021-11 (E)

Characterization of pavement texture by use of surface profiles - Part 6: Verification of the performance of laser profilometers used for pavement texture measurements

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Symbols and abbreviated terms **2**

5 Methodology and its use **3**

6 Identification and evaluation of design and performance parameters **3**

7 Test methods and instruments **4**

7.1 General conditions 4

7.2 Laser power 4

7.2.1 Test method 4

7.2.2 Instruments 4

7.3 Laser spot size 5

7.3.1 Test method 5

7.3.2 Instruments 5

7.4 Accuracy of the calibration (scale) factor 5

7.4.1 General 5

7.4.2 Method and instruments 6

7.5 Nonlinearity 6

7.5.1 General 6

7.5.2 Test method 6

7.5.3 Instruments 6

7.6 Background noise 6

7.6.1 Method 6

7.6.2 Evaluation of the result 7

7.7 Horizontal position measurement accuracy 7

7.7.1 Test method for mobile (continuous) systems 7

7.7.2 Test method for stationary (spot) systems 7

7.8 Sensitivity to abrupt change in surface reflectivity 7

7.8.1 Method 7

7.8.2 Instruments 8

7.9 Spike content of measured signal 8

7.10 Effect of ambient light 8

7.10.1 Method 8

7.10.2 Instruments 8

7.11 Dropout rate 9

7.11.1 Method 9

7.11.2 Instruments 9

7.12 Validation of dropout detection system 9

7.12.1 Method 9

7.12.2 Instruments 10

7.13 Synchronization between invalid parts of the profile and dropout indications 10

7.13.1 Method 10

7.13.2 Instruments 10

8 Ambient testing conditions **11**
9 Frequency of testing **11**
10 Test report **11**
Annex A (informative) **Testing the calculation procedure (software)** **13**
Bibliography **14**