

# 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

---

<b>Contents</b>	<b>Page</b>
Foreword.....	v
Introduction.....	vi
<b>1 Scope.....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>1</b>
<b>3 Terms and definitions.....</b>	<b>1</b>
<b>4 Symbols and abbreviated terms.....</b>	<b>2</b>
<b>5 Methodology and its use.....</b>	<b>3</b>
<b>6 Identification and evaluation of design and performance parameters.....</b>	<b>3</b>
<b>7 Test methods and instruments.....</b>	<b>4</b>
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

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