

---

---

**Geometrical product specification  
(GPS) — Surface texture: Areal —**

Part 606:

**Nominal characteristics of non-contact  
(focus variation) instruments**

*Spécification géométrique des produits (GPS) — État de surface:  
Surfacique —*

*Partie 606: Caractéristiques nominales des instruments sans contact  
(à variation de focale)*





**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>vi</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
3.1 Terms and definitions related to all areal surface texture measurement methods.....	2
3.2 Terms and definitions related to <i>x</i> - and <i>y</i> -scanning systems.....	9
3.3 Terms and definitions related to optical systems.....	11
3.4 Terms and definitions related to optical properties of the workpiece.....	13
3.5 Terms and definitions specific to focus variation instruments.....	13
<b>4 Description of the influence quantities</b> .....	<b>16</b>
4.1 General.....	16
4.2 Overview.....	17
4.3 Influence quantities.....	17
<b>Annex A (informative) Components of a focus variation microscope</b> .....	<b>19</b>
<b>Annex B (informative) Relation to the GPS matrix model</b> .....	<b>25</b>
<b>Bibliography</b> .....	<b>27</b>