Modus 6ZS - 3D Digital Microscope

- High-resolution
- High-speed
- Cost-effective
- 3D and 2D measurements
- Roughness measurement
DeltaPix Modus 6ZS–3D

The DeltaPix Modus 6ZS is a complete digital microscope system that is designed for inspection, documentation, and analyses such as measurements in 2D, 3D topographies as well as roughness measurement according to guidelines of ISO 25178-2:2012.

High quality, cost effective and flexible

This 3D microscope comes complete with a high-resolution digital camera, high-quality 6X manual zoom optics, motorized z-stage, controller, track, base, ring light, and software. Many options for upgrading this system is available, for more information please contact DeltaPix or your local DeltaPix dealer.

User–friendly System

Plug and play – the USB interface provides high-speed and ease of installation on any computer.

Applications

The 3D Microscope is a versatile system suitable for a wide range of applications.

Typical applications:

<table>
<thead>
<tr>
<th>Recommended applications</th>
<th>Modus 6ZS–3D</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB inspection</td>
<td>✔</td>
</tr>
<tr>
<td>Documentation and Archiving</td>
<td>✔</td>
</tr>
<tr>
<td>Macro Imaging</td>
<td>✔</td>
</tr>
<tr>
<td>Quality control</td>
<td>✔</td>
</tr>
<tr>
<td>3D topographies</td>
<td>✔</td>
</tr>
<tr>
<td>Roughness</td>
<td>✔</td>
</tr>
<tr>
<td>2D measurement</td>
<td>✔</td>
</tr>
</tbody>
</table>
Why choose DeltaPix Modus 6ZS–3D

Low cost and Effective
The Modus 6ZS from DeltaPix with a first in class price/performance ratio starting price from 9995€, ideal for inspection, documentation, and analyses such as measurement in 2D and 3D as well as 3D topographies in surface metrology, all in a compact, user-friendly and cost-effective system.

Great Image quality
Discover more details with high-resolution and more crisp images with the included camera. The DeltaPix Modus 6ZS combines a high-resolution camera with high-quality Japanese optics for precise and distortion free image.

Construction and Hardware
The DeltaPix Modus 6ZS is designed and constructed by an experienced team of engineers that are specialized in optics and microscopy. Each part of the system is been carefully designed to provide the best imaging and measurement results.

Ergonomic working posture
Digital microscopes provides a better working posture, this is due to the completely digital output of the microscope — there are no eyepieces which can strain the on the neck and eyes. Working in a straight, upright posture can help prevent health issues due to physical strain.

DeltaPix InSight Software
The Modus 6ZS include DeltaPix InSight software which is a powerful platform for precise measurements and analyses.

DeltaPix InSight provides the user with a multitude of features, for a wide range of advanced applications with an easy-to-use user interface. For example, images stacking, HDR for wide dynamic images, 3D measurements/ 3D topography, and Roughness Measurement.

---

1. Image of a sawtooth
2. 3D image of SMD
3. 3D measurement
4. Roughness
# Modus 6ZS–3D

<table>
<thead>
<tr>
<th>Features</th>
<th>Description</th>
</tr>
</thead>
</table>
| Live preview resolution   | 2592 x 1922 @14FPS with Invenio 5SIII  
3840x2560 @ 15FPS with Invenio 10EIII |
| Still image resolution    | 5 Mpixles (2592 x 1922) Invenio 5SIII  
9.83Mpixles (3840 x 2560) Invenio 10EIII |
| Sensor size               | 1/2.5” (5.7mm x 4.28mm) Invenio 5SIII  
2/3” (9.15mm x 6.86mm) Invenio 10EIII   |
| Working Distance          | 92.3mm                                                                                                                                    |
| Magnification             | 0.7X–4.5X                                                                                                                                  |
| Field of view             | Invenio 5SIII (standard) 10.18mm - 1.59mm  
Invenio 10EIII (optional) 16.33mm - 2.54mm |
| Motorized Z travel range  | 50mm                                                                                                                                       |
| Spatial Resolution        | 11.6 – 4.9 μm                                                                  |
| Axial Resolution          | 1 μm                                                                                                                                       |
| Illumination              | LED Ring Light/ Coaxial light as option                                                                                                    |
| Data interface            | USB 3.0 and USB 2.0                                                                                                                          |
| Data format and compression | 24-bit uncompressed Tiff, 24bit JPEG compressed and 24-bit loss–less compressed JPEG2000                                            |
| Minimum PC requirements   | Intel I5 (quad core) CPU  
8 GB RAM  
15 GB free hard disk space  
Graphic card  
USB 3.0 port and USB 2.0  
Windows 7,8, 10 64 bit |
| Optional                  | Manual XY stage                                                                                                                            |

---

DeltaPix Aps, Hassellunden 16, DK-2765 Smorum Denmark  
Telephone:+45 46760205  
E-mail: deltapix@deltapix.dk