OCT Based Volumetric Imaging Solutions

Key Features

- Standalone integrated enclosure with application specific sampling for well plates, thermally controlled stages for biological samples, or custom options
- Flexible core engine can be configured for inline process monitoring applications or customized standalone products
- Factory configurable for high resolution low working depth or low resolution high working depth based on application requirements
- Built-in field viewer for visual imaging of sample under volumetric analysis
- Volumetric Imaging Software Suite (VIS™) for instrument control and visualization of sample under test
- Imaging wavelength from 850 nm – 1510 nm depending on application & damage thresholds
- Configurable for high sensitivity or high speed imaging with line rates from 5 kHz – 200 kHz

Compact OCT Solution

(Pikoplate Volume Measurement System Shown)

Applications

- Micro wellplate volume measurements for QA/QC
- Biomedical Screening of tissue
- Optical inspection of microfluidic membrane thickness and shape
- Oocyte shape for IVF analysis

Typical System Specifications / Configurations

<table>
<thead>
<tr>
<th></th>
<th>High Resolution</th>
<th>Large working Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imaging Depth (air)</td>
<td>~ 500 µm</td>
<td>~ 8,000 µm</td>
</tr>
<tr>
<td>Lateral Resolution</td>
<td>~ 6 µm x 6 µm</td>
<td>~ 6 µm x 6 µm</td>
</tr>
<tr>
<td>Axial Resolution (air)</td>
<td>~ 3 µm</td>
<td>~ 20 µm</td>
</tr>
<tr>
<td>Power on Sample</td>
<td>~ 1 mW – 5 mW</td>
<td>~ 1 mW – 10 mW</td>
</tr>
<tr>
<td>Environmental</td>
<td>0-45 °C, noncondensing atmosphere</td>
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</tbody>
</table>

Custom Axial/Lateral Resolution, Working Depth, Sampling Available — Call for Details

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