The \textit{VivaScope 2500M-G4} is a confocal laser scanning microscope specially designed for the analysis of diagnostic biopsies and the assessment of tumor margins during surgery. Samples can be examined directly after an excision without time consuming procedures. Tissue preparation and staining take only minutes. For example, a tissue sample of 1 cm x 1 cm can be stained and imaged in less than 4 minutes.

Tumor margin assessment normally involves time-consuming procedures and requires additional materials, equipment, specialized technicians and space to prepare histological sections. Often, precious time is lost while waiting for the results. However, the \textit{VivaScope 2500M-G4} represents an innovative alternative, saving time, cost and materials.

No fixation and only a very quick staining procedure (less than one minute) is required after which the specimen can be examined immediately. The examined tissue is not affected by the procedure and can be processed for histology later on.

\textit{Basal Cell Carcinoma}
**VivaScope® 2500M-G4**

The **VivaScope 2500M-G4** uses two lasers with wavelengths of 488 nm (blue) and 785 nm (infrared). A fluorescent dye that is applied to the tissue prior to the VivaScope imaging process is excited by the blue laser, thus highlighting cell structures (e.g. nuclei). Additionally, the infrared laser is used to generate a reflectance signal, showing structural information of the sample. Both reflectance and fluorescence signals are acquired simultaneously and correlated in real-time. A built-in algorithm translates the signals into H&E-like pseudo-colored images. The resulting images contain similar information to conventional histology and can be examined at any desired magnification, ranging from displaying the whole sample up to a 550-fold magnification.

Standard filter sets are integrated for the following fluorescent dyes: Acridine orange and Fluorescein (blue laser), as well as Indocyanine green (ICG – infrared laser).

To enhance usability, the **VivaScope 2500M-G4** is equipped with a digital camera providing a bright-field image of the specimen. This macro image correlates precisely to the confocal image and thus allows for an easy tissue navigation and simplified selection of regions of interest.

### Technical Data

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<th><strong>VivaScope® 2500M-G4</strong></th>
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| **Optical Resolution**   | horizontal < 1.25 μm at center of field of view, vertical < 5.0 μm at center of field of view  
| **Imaging Depth**        | up to 200 μm (dependent on tissue type)  
| **Single Field of View Size** | 550 μm x 550 μm  
| **Image Resolution**     | 1024 x 1024 pixels (single field of view)  
| **Maximum Sample Size**  | 25 mm x 25 mm  
| **Operating Wavelengths** | 488 nm & 785 nm  
| **Objective**            | Caliber I.D. StableView™ gel immersion 38x  
| **Magnification**        | ca. 550x  
| **Regulatory Certifications and Standards** | IEC 61010-1: 2010  
|                          | IEC 61326: 2013  
|                          | IEC 60825-1: 2007  
| **Laser Classification** | Class I  
| **Dimensions (LxWxH)**   | 25 x 52.5 x 25 cm (Scan Head Only)  
| **Weight**               | 17.2 kg  
| **Power Source**         | 220 - 240 V, 50 Hz  
| **Operating Humidity**   | Non-condensing  

Technical specifications are subject to change without notice. Status 02/2019