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Press Release

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[www.till-photonics.com/
Products/andromeda.php](http://www.till-photonics.com/Products/andromeda.php)

TILL Photonics introduces a new upright Two Photon Microscope at the 55th Annual Meeting of the Biophysical Society 2011 in Baltimore

With Intravital^{2P}, TILL Photonics is introducing an upright imaging platform which is specifically designed to meet the demands for functional *in vivo* or *intravital* imaging in live animals. The ultra compact and flexible platform concept offers a complete solution for two photon imaging with multiple fluorescent dyes to observe dynamic processes deep inside living tissue.



Unmatched collection efficiency in two channels simultaneously

The Intravital^{2P} features a non-descanned detection scheme based on two high-sensitive GaAsP PMTS with equivalent collection efficiency. Its optimized dual-detection beam path guarantees highest emission collection efficiency in both channels and gives scientists the opportunity to capture images with enhanced signal-to-noise ratios. A motorized slider with 3 filter sets provides a high level of flexibility in the choice of dyes. This means that users can combine up to 6 color

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channels for two-photon imaging.

High-speed 3D imaging

Thanks to TILL's unique focus drive based on voice-coil (a closed-loop linear motor) technology, 3D image stacks of the samples can be acquired with previously unattained volume and speed. The outstanding properties of the focus drive provide excursions of 7.5mm with 50nm resolution. Thus, scientists can exploit the whole working distance of the objective lens for high-speed 3D imaging with uncompromised accuracy.

More details about the Intravital^{2P} and other microscopy solutions from TILL Photonics will be available at the Biophysical meeting 2011, booth 361.

TILL was founded in 1993 as systems provider for fluorescence microscopy. From its very beginning TILL had placed its focus on the development of innovative, enabling technologies for the study of live cells. Setting out with a novel light source for ratio imaging and the first real-time imaging system on the market, TILL developed a novel, award-winning microscope platform concept, which allows integrating an unprecedented number of functionalities into a single instrument. Based on this technology TILL has subsequently become a provider for complete microscope systems, and the new TILL intends to step into these footsteps and plans to extend the platform concept in order to grow into a wide range of markets, both in basic research, screening and medical diagnostics.

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