

From Eye to Insight

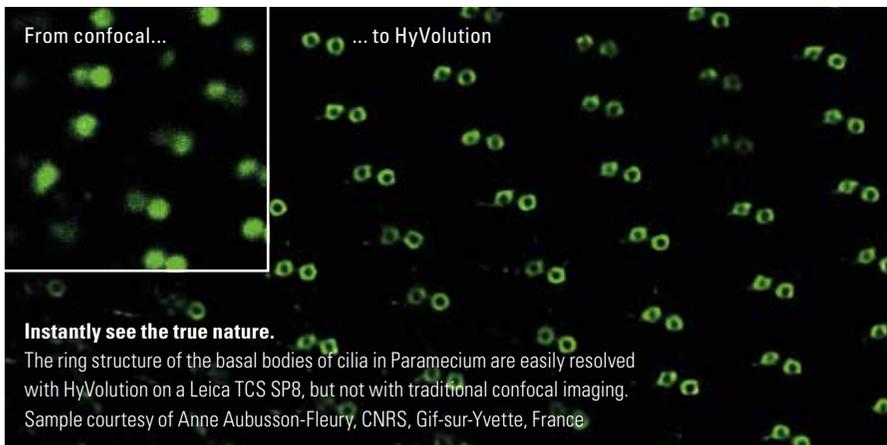
*Leica*  
MICROSYSTEMS



## FIDELITY WITHOUT COMPROMISE

HyVolution – High-Speed Multicolor Confocal Super-Resolution

# EXTEND YOUR LEICA TCS SP8 WITH HyVOLUTION



## The confocal HyVolution

What if you no longer had to make a trade-off between resolution, speed, and number of colors when performing your confocal imaging? With HyVolution, your experiments are represented in the greatest detail with high fidelity. Study rapid dynamics of living cells, image multiple fluorophores simultaneously, and capture intracellular details. Acquire up to five channels in parallel to retain spatial and temporal resolution.

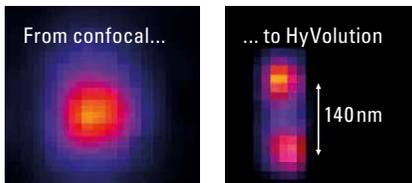
Why should you compromise?

- > Confocal super-resolution down to 140 nm
- > Multiple colors simultaneously in up to five complete channels
- > High speed parallel architecture – 10x faster

## FIDELITY WITHOUT COMPROMISE

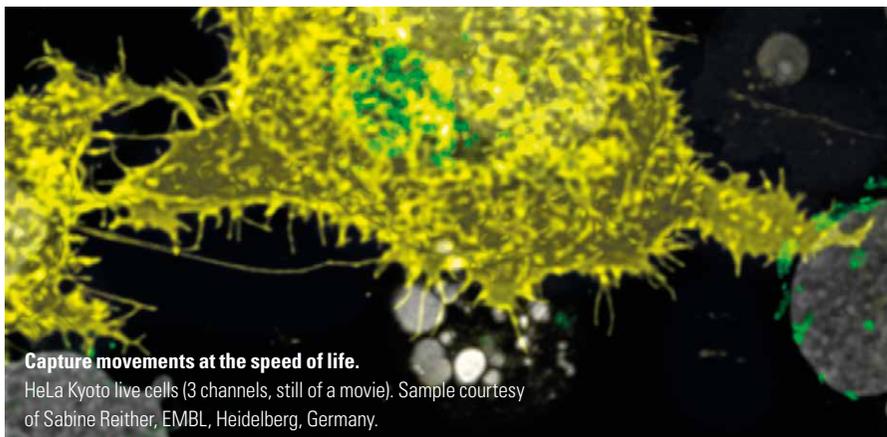
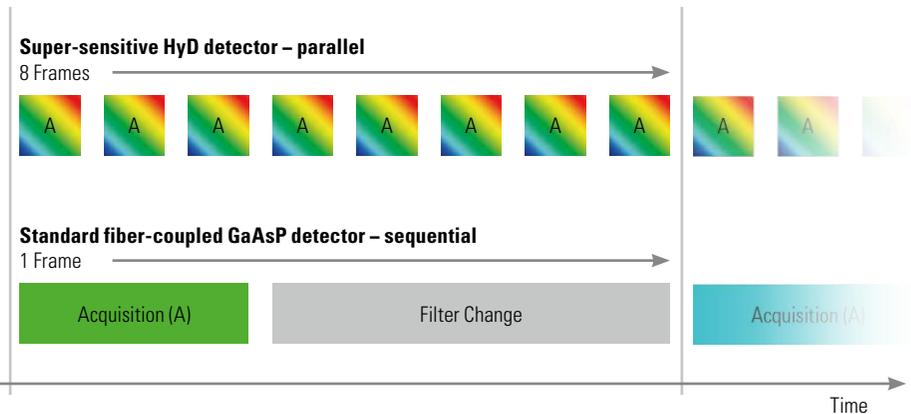
### Confocal super-resolution down to 140 nm

By embedding industry leading SVI Huygens deconvolution software in the workflow, HyVolution provides confocal super-resolution down to 140 nm and doubles the resolution in axial direction.



HyVolution resolves a nanoruler, such as DNA origami that has a defined 140 nm fluorophore spacing, while traditional confocal imaging does not.

### Multiple colors simultaneously in up to five complete channels



### High-speed parallel architecture – 10x faster

The filter-free spectral detection system of the Leica TCS SP8 collects up to five simultaneous channels. This parallel data acquisition is much faster than any single-channel solution. The deconvolution powered by the accelerated on-board graphics processing unit provides results up to 10x faster than before.

Contact us and find out more about HyVolution!

[www.leica-microsystems.com/hyvolution](http://www.leica-microsystems.com/hyvolution)

