

Leica HyD for Confocal

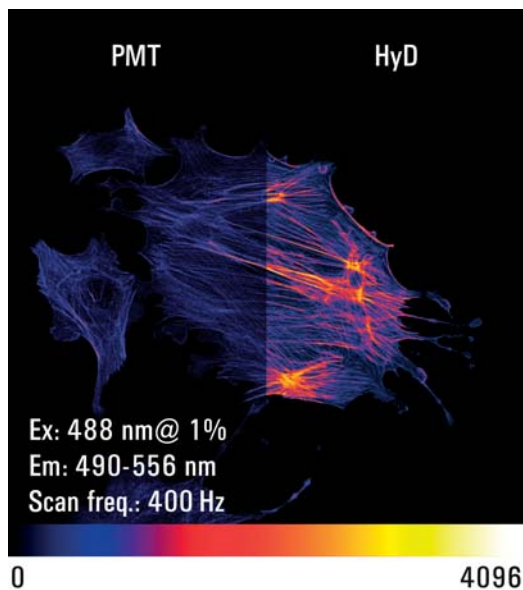
The road to super-sensitivity

- Improved cell viability
- Reduced acquisition time
- Open upgrade path

Living up to Life

Leica
MICROSYSTEMS

Pushing Sensitivity to a New HyD



- **Hybrid technology – the best of both worlds**

Half photomultiplier and half avalanche photodiode our new HyD **hybrid detectors** with a **GaAsP** photocathode offer superior **sensitivity** combined with a large **dynamic range**. Start observing dim structures never seen before.

- **Flexibility by design**

No matter if you need hybrid technology fully **multi-spectral**, in the **non-descanned** position or at the **extension port** – HyD is available in either format.

- **Improved cell viability**

Every increase in sensitivity directly translates into reduced light dosage delivered to the sample. You can perform your live cell experiments without worrying about photobleaching or phototoxicity.

- **Filter free super-sensitivity**

The HyD SP modules seamlessly integrate into Leica's distinguished spectral detection design, resulting in full flexibility with the **AOBS** – the only true **filter free** detection concept. Don't bother with 100 filter combinations. Why limit yourself if you can have thousands?

- **Fastest super-sensitive point scanner**

Leica Microsystems – the pioneer of rapid point scanning technology sports a unique frame rate of **29 fps at 512 x 512 with the widest field of view** ($FOV_{\text{resonant scanner}} = 15 \text{ mm}$, $FOV_{\text{conventional scanner}} = 22 \text{ mm}$) available. **Parallax free imaging** thanks to Leica's patented three mirror scanner. Combine now the power of rapid scanning with **low noise hybrid detection**.

- **Dynamic range from single photon to whole organism**

The **combination of HyD detection with PMTs** in the same system offers a **dynamic range from single photon counting to whole organism imaging**. Effectively, this obsoletes the use of processing tools, such as high dynamic range software.

- **Open upgrade path**

Start with **up to four HyD modules** or **retrofit your existing SP5** system. Leica's modular concept allows you to buy just as much super-sensitivity as you need.

