

Resource Summary Report

Generated by [kravitz2](#) on Jul 29, 2026

Leica: TCS 4Pi 4Pi

RRID:SCR_020235

Type: Tool

Proper Citation

Leica: TCS 4Pi 4Pi (RRID:SCR_020235)

Resource Information

URL: <https://www.leica-microsystems.com/company/news/news-details/article/enter-the-fluorescence-nano-world-first-commercial-4pi-microscope/>

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Description: 4Pi microscopy uses a special phase- and wavefront-corrected double-objective imaging system linked to a confocal scanner to enable 4-7 fold increased axial resolution over confocal & two photon microscopy. Even in living specimens, axial sections of ~100 nm are obtained. The system maintains all advantages of fast scanning, Acousto-Optical Beam Splitting (AOBS) and Spectral Detection of the Leica TCS SP2 AOBS for routine operation. The first marked leap in resolution in commercial 3D fluorescence microscopy opens up new dimensions for research in cell and developmental biology. The Leica TCS 4Pi system was developed in close cooperation with Prof. Stefan Hell, Head of the NanoBiophotonics Department at the Max-Planck-Institute for Biophysical Chemistry, Goettingen, Germany and was in part funded by the German Ministry of Education and Research (BMBF).

Resource Type: instrument resource

Keywords: Leica, Confocal Microscope, Instrument Equipment, USEDit

Availability: Commercially available

Resource Name: Leica: TCS 4Pi 4Pi

Resource ID: SCR_020235

Alternate IDs: Model_Number_4Pi

Record Creation Time: 20220129T080349+0000

Record Last Update: 20260725T190924+0000

Ratings and Alerts

No rating or validation information has been found for Leica: TCS 4Pi 4Pi.

No alerts have been found for Leica: TCS 4Pi 4Pi.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.