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Nikon introduces new imaging technology to accelerate biotech research

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To meet the ever-changing needs of the biological and biomedical research community



Nikon Instruments Inc., the US microscopy arm of Nikon Healthcare, is expanding its AX series lineup with the introduction of the AX R with NSPARC 2K software. This solution provides maximum resolution performance across four times the field of view. The expanded capabilities of the AX R with NSPARC Super-Resolution Confocal Microscope contribute to accelerated speed and efficiency of experiments across fundamental biology, disease research, and drug development.

The Nikon Spatial Array Confocal (NSPARC) detector, combined with the AX R Confocal Microscope system, enables more precise observations with extremely low noise and exceptionally sharp image contrast. The newly updated software expands the observation range by about four times at the same magnification compared with previous products. In addition, the image acquisition speed at the same magnification is improved six-fold compared to a traditional galvano scanner.

Equipped with the NSPARC detector, which provides high-speed, large field of view, high-resolution imaging capability, researchers can clearly observe even the smallest parts of cells and tissues. This enables higher-quality data analysis, deeper scientific understanding, and valuable insights into understanding the root causes of disease.