

DeepSIM Super Resolution

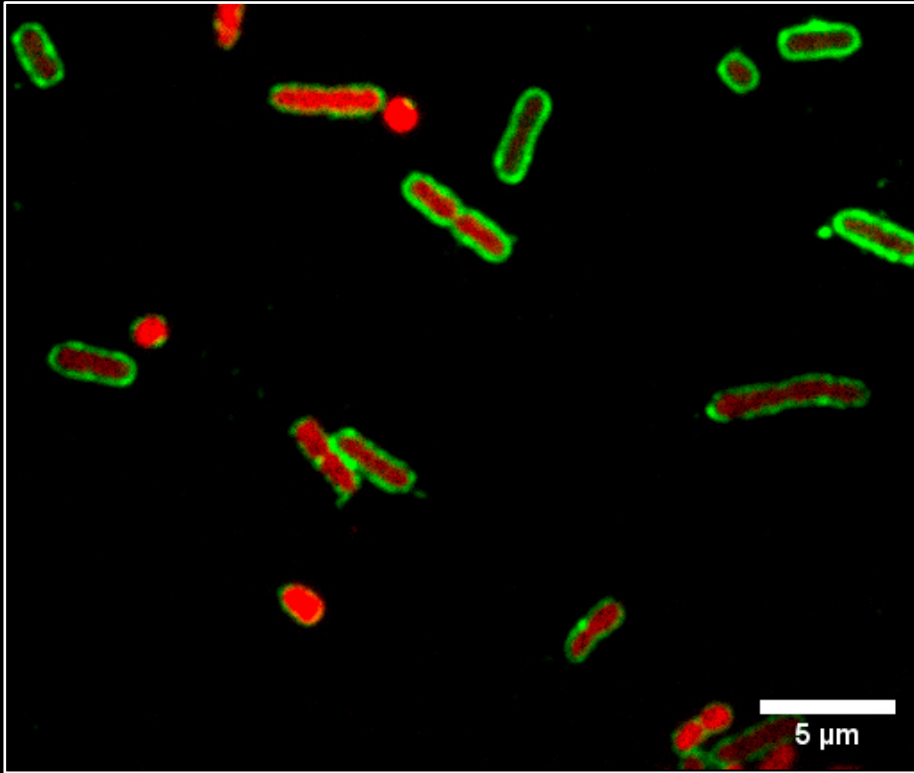


3D volume views of super-resolved glomeruli, 60x 1.4 NA. Axial resolution is appreciable through orthogonal views.

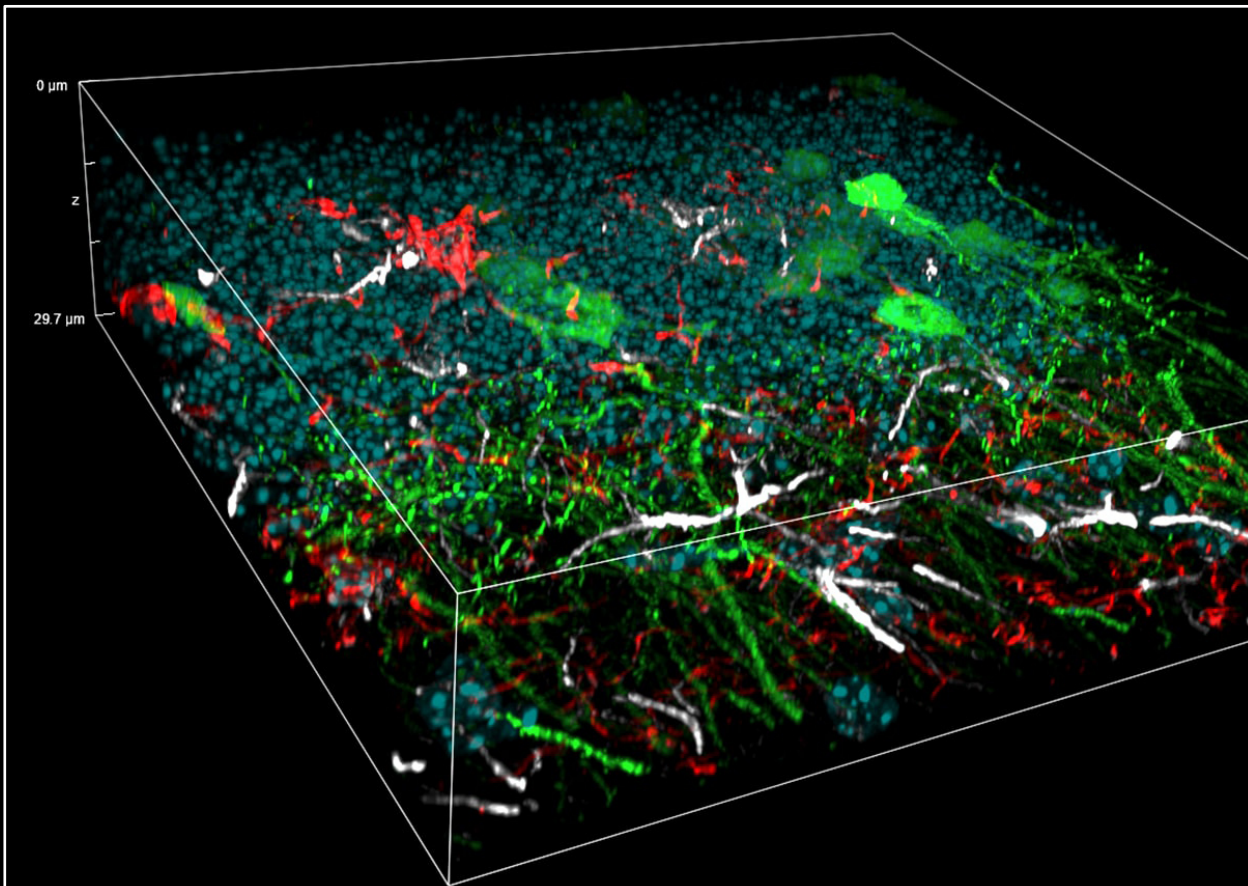


Image Deep, View Deep

Live Cell Imaging Temporal Resolution >10fps (1024 x 1024 px FOV)

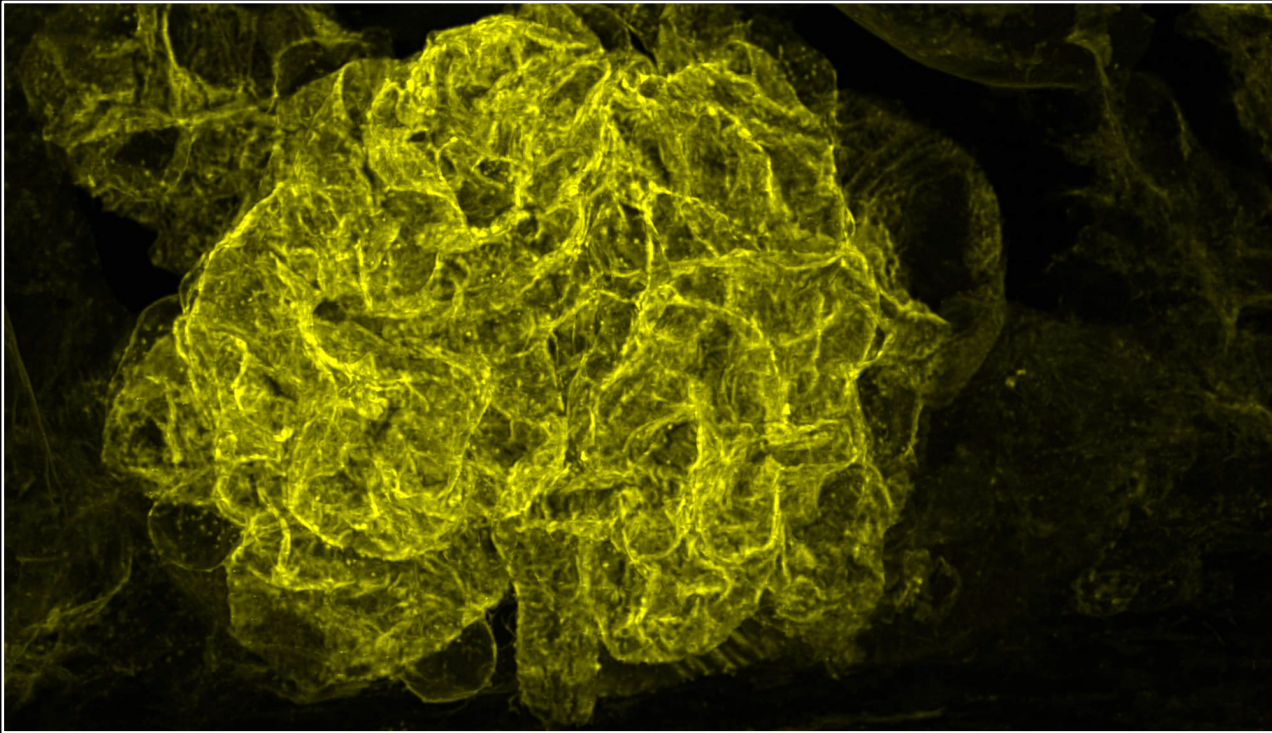


High Resolution Super -resolved optical sectioning with Z resolution up to ~300nm

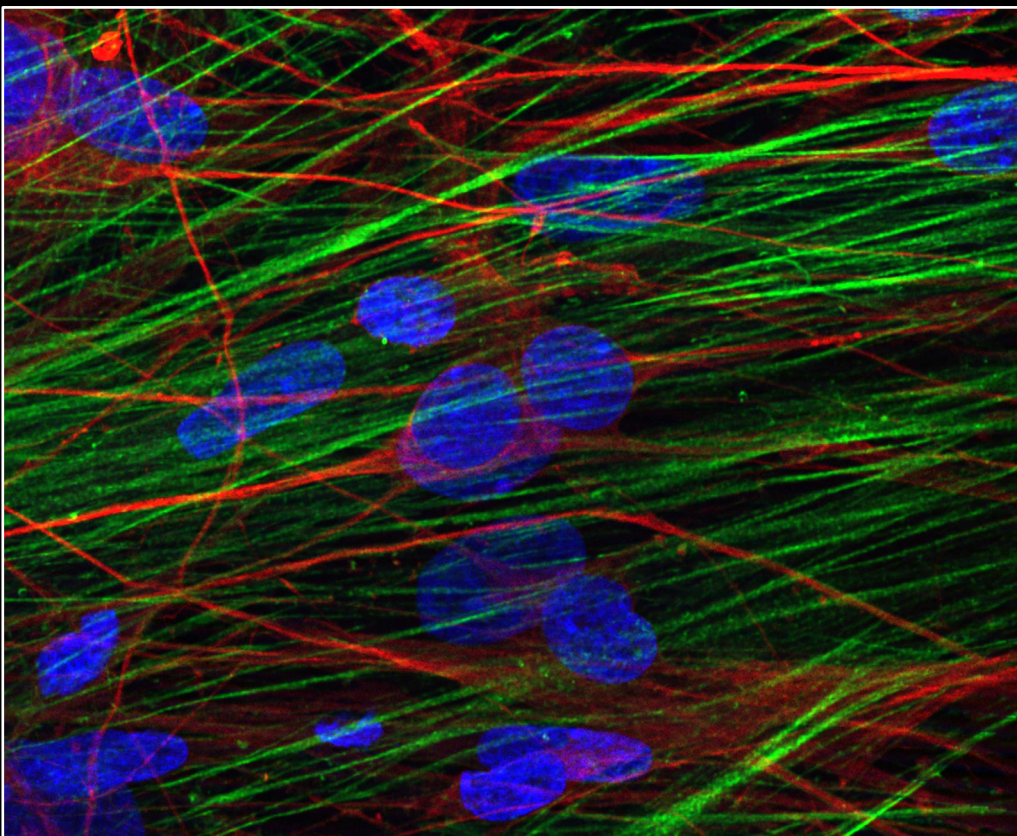


Incredible Super-Resolution

High Variety of Samples Complex 3D models of tissues, organoids spheroids, etc, can be captured even with 50um thickness



High Flexibility Expandable system as add-on module for Spinning Disk Confocal or standalone equipment

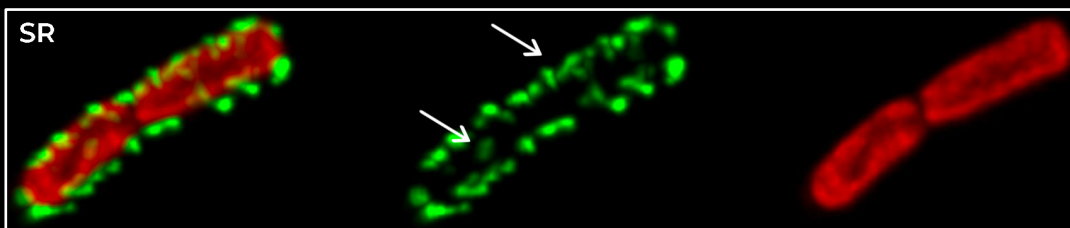


Application

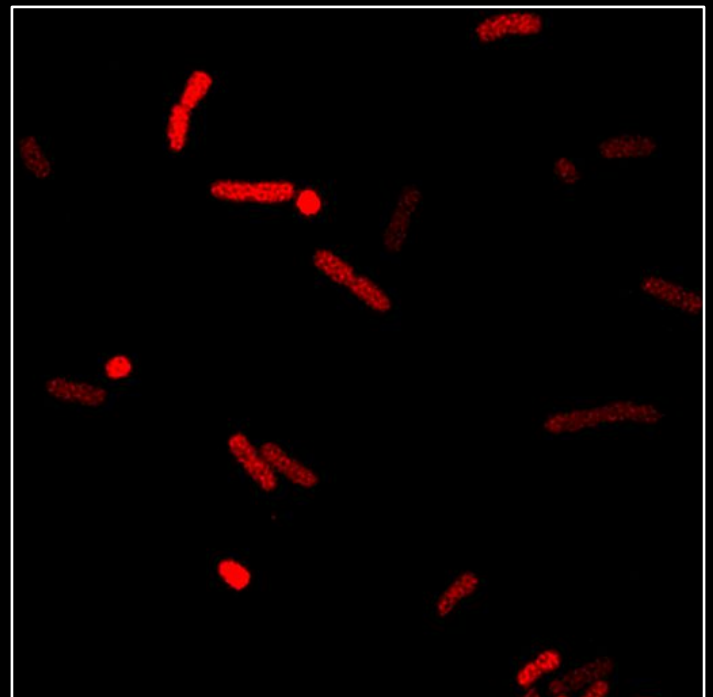
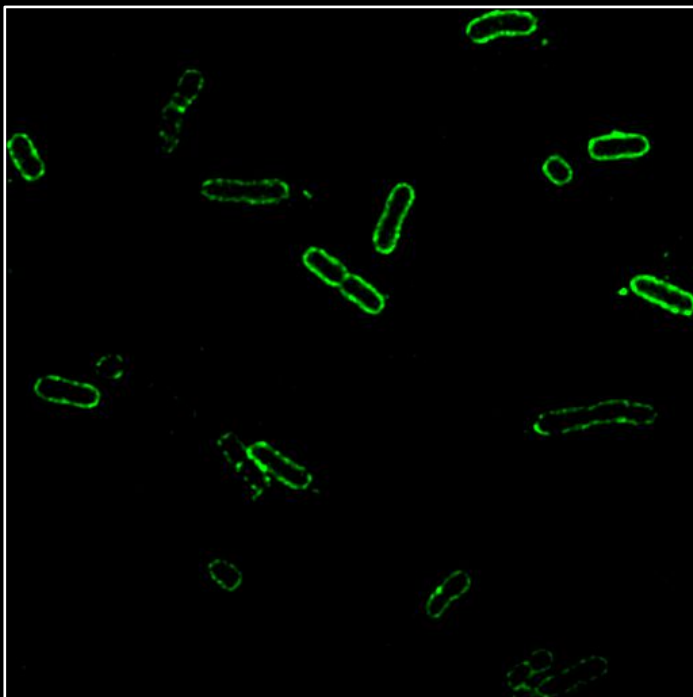
Monoclonal Antibodies Against Bacteria

Validation of the binding efficiency of the antibody to the bacterial surface by the Monoclonal Antibody Discovery (MAD) Lab in Fondazione Toscana Life Sciences (TLS), Italy.

488-fluorophore-conjugated mAb isolated at TLS bound to *Klebsiella pneumoniae* expressing mCherry



3D Volume Views of a region of interest showing bacterial cells acquired with DeepSIM Super-Resolution (SR) system.



Allow biological changes to be tracked at cellular and subcellular levels.

Specification

FOV	1024x1024pixel (66x66µm 100X, 333x333µm 20X)
Laser	Spectral range: excitation: 400-750 nm; emission: 400-850 nm
Camera	Compatible with any triggerable camera having 6.5 µm pixel size
Dual Camera Option	Available
Acquisition Speed	13fps (1024x1024px)
Spinning Disk Upgrade	Compatible with Spinning Disk Confocal
Objectives compatible	From 100X to 20X range
Resolution	Lateral Resolution (FWHM): ~100nm (100X NA 1.45) Axial Resolution (FWHM): ~300nm (100X NA 1.45)
Software	NIS-Elements
Recommended Installation Conditions	Temperature 23 ± 5°C, Humidity 70% RH or less (no condensation)
Weight	44 lbs, 20kg
Dimensions	14.0 (w) x 17.1 (L) x 11.8 (h) inches, 356.0 (w) x 435.0 (L) x 300.0 (h) mm



Chinetek Scientific (China) Limited

Phone: (+852) 2784 0630

WhatsApp: (+852) 9404 6983

Email: sales@ctschina.com.hk

ctschina.com.hk



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