



Product Information

GATTA-STED 3D Nanoruler

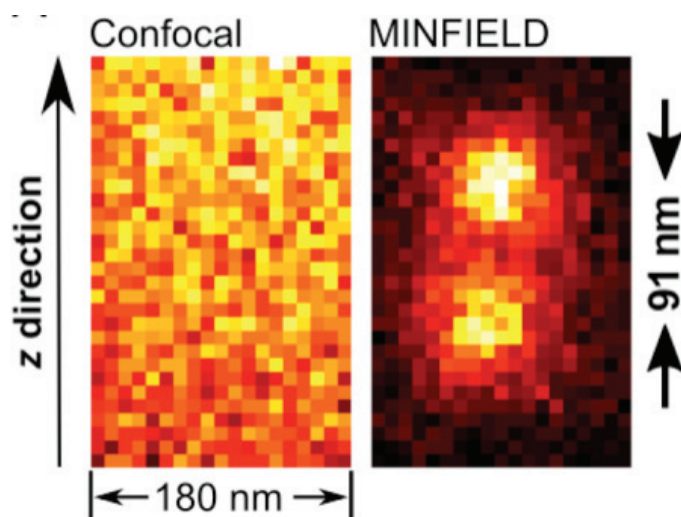
Verify the resolution of your 3D STED microscope

3D nanorulers from the GATTA-STED series are the ideal resolution rulers for high-performance 3D STED super-resolution microscopes. The samples consist of two spots oriented in axial direction to study the resolution capabilities in z.

The **GATTA-STED 3D 90R Expert Line** is a nanoruler with two spots separated by 90 nm. The spots are marked with multiple ATTO 647N fluorophores, which belong to the best STED dyes available. To stabilize the fluorophores the samples are embedded in ProLong Gold Antifade. The samples can show a distribution of angles with lying, tilted and standing pillars. Most of the rulers are standing (angle > 45°).

A detailed study of the GATTA-STED 3D 90R Expert Line nanorulers can be found in the following publication:

Göttfert, F. et al. Strong signal increase in STED fluorescence microscopy by imaging regions of subdiffraction extent. Proc Natl Acad Sci USA (2017). doi:10.1073/pnas.1621495114



GATTA-STED 3D 90R

Super-resolution image of a GATTA-PAINT 3D 90R Expert Line nanoruler. Image courtesy of Abberior Instruments GmbH

Product properties

GATTA-STED 3D Nanoruler

Single-color nanorulers for 3D STED super-resolution microscopy



	GATTA-PAINT 3D 90R Expert Line
Color	red
Fluorophore	ATTO 647N
Recommended laser source	630–650 nm
Surface density nanoruler	$\approx 1/\mu\text{m}^2$
Axial distance	90 nm

Product questions?

Contact

In case you should need further assistance please feel free to contact us.
We are happy to help.

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