

BioPixS OCT phantoms offer a wide range of options to characterize and validate OCT devices. Below is a list of dedicated OCT phantoms designed to assess the performance of these devices.



Multilayer OCT test target: this phantom provides multilayers (10, 20 layers) of 50 μm thickness, embedded on a tissue mimicking phantom of known optical properties. Dimension: 5x5 mm, 10x10 mm.



Point spread function phantom (PSF): The PSF phantom contains a 3D distribution of $< 1 \mu\text{m}$ FeO nanoparticles encapsulated in a transparent polymer. This phantom is used by OCT systems for alignment, spatial and axial resolution assessment. Dimension: 10x10 mm, height x diameter.



Positive pyramid phantom: The assessment of depth, along with spatial resolution, focus is simplified by the pyramid phantom. It comprises three pyramids with step sizes of 40, 80, and 120 μm , and a step depth of 50 μm . The pyramids are encapsulated in transparent polymer, and non-encapsulated variants are also available for research studies.



Negative pyramid phantom: It shares the same features as a positive test target but is inverted. Dimensions: Pyramid 10x10 mm, Phantom 50x30 mm.



Resolution test targets: These chrome-based test targets are customized for OCT by embedding them in a refractive index-matching tissue-mimicking phantom with realistic optical properties (absorption coefficient of 0.1 cm^{-1} , reduced scattering coefficient of 10 cm^{-1} @800 nm, configurable). Dimensions vary depending on the test target type.

Target types: USAF resolution test target, Ronchi ruling, alignment markers, point spread function.

Lead time: readily available

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