Resource Summary Report

Generated by PRECISE-TBI on Aug 1, 2026

3Scan

RRID:SCR_012685
Type: Tool

Proper Citation

3Scan (RRID:SCR_012685)

Resource Information

URL: http://www.scienceexchange.com/facilities/3scan

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Description: 3Scan uses the cutting edge technology of the KESM (Knife Edge Scanning Microscope) to automatically section and image samples. Knife-edge scanning, introduced in the KESM instrument, not only preserves image registration throughout the depth of the specimen block but also isolates the tissue above the knife from that below to eliminate undesirable events (back-scattering of light and bleaching of fluorescent-stained tissue below the knife). Using the KESM, 3Scan is able to scan a one cc^3 block of tissue (for example, a whole mouse brain) at submicron resolution in under 100 hours. With this resolution (a voxel size of 0.6 um x 0.7 um x 1.0 um) 3Scan is able to show cell scale phenomena in the context of a compete organ. In the example of a whole mouse brain this means that 3Scan is able to accurately model every neuron in the mouse brain sample.

Abbreviations: 3Scan

Resource Type: commercial organization, core facility, service resource, access service resource

Resource Name: 3Scan

Resource ID: SCR_012685

Alternate IDs: SciEx_8873

Record Creation Time: 20220129T080311+0000

Record Last Update: 20260801T042710+0000

Ratings and Alerts

No rating or validation information has been found for 3Scan.

No alerts have been found for 3Scan.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Osten P, et al. (2013) Mapping brain circuitry with a light microscope. Nature methods, 10(6), 515.