

BREAKTHROUGH INNOVATION IN MULTIPHOTON MICROSCOPY

THE **FEMTO3D ATLAS** AND **ATLAS P&P** MICROSCOPE COMBINE HIGH-TECH SCIENCE, ENGINEERING, REFINEMENT IN 3D MEASUREMENTS AND TECHNOLOGY INTO AN ALL-IN-ONE SOLUTION. THE UNIQUE PROPERTIES OF ATLAS ENABLE RESEARCHERS TO IMAGE NEURONAL, DENDRITIC, AND OTHER NEUROFIL ACTIVITIES.

FUNCTIONAL REAL-TIME 3D IMAGING

CALCIUM IMAGING, VOLTAGE IMAGING

DEEP PENETRATION

LOW PHOTOTOXICITY, HIGH OPTICAL QUALITY

TEMPORAL SUPER RESOLUTION

ULTRA-FAST AND PRECISE VOLTAGE MEASUREMENTS
(100 ROIS POSSIBLE)

UNIQUE FLEXIBLE IMAGING METHODS

SUPPORTING MOST NEUROBIOLOGICAL APPLICATIONS

NETWORK IMAGING

OF EVEN THE MOST EXPANSIVE NEURAL CIRCUITS

DENDRITIC IMAGING

WITHOUT INTERRUPTION THROUGH LAYERS

SPINE MAPPING

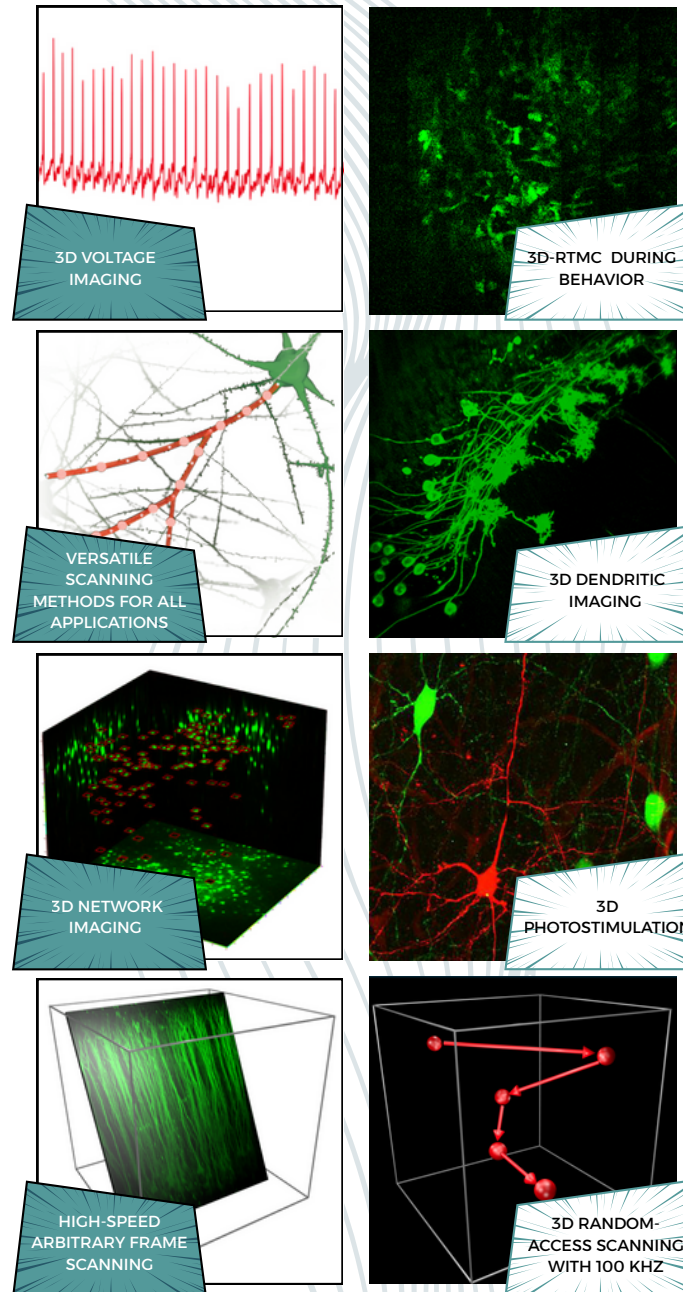
SIMULTANEOUS IMAGING OF THOUSANDS OF SPINES

BEHAVIOR EXPERIMENTS

WITH AN ADVANCED TOOLSET

REAL-TIME 3D MOTION CORRECTION

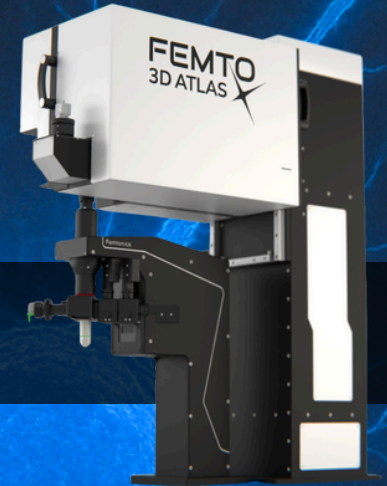
FOR IN VIVO BEHAVIOR EXPERIMENTS



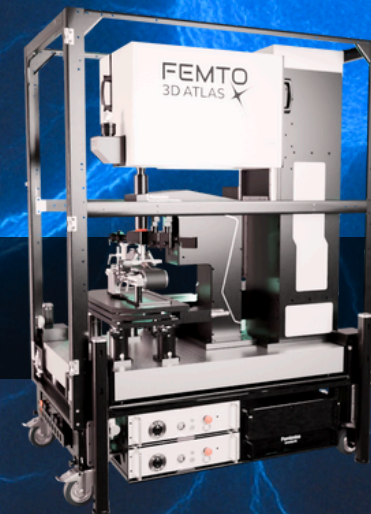
INFO@FEMTONICS.EU
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THINKING AHEAD
FEMTONICS
MICROSCOPY



**FEMTO3D
ATLAS**



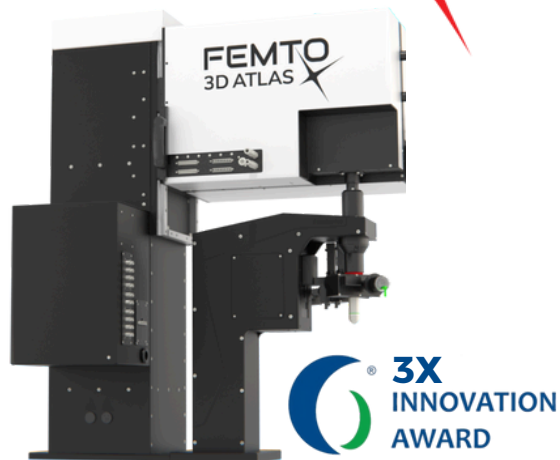
**FEMTO3D ATLAS
PLUG&PLAY**

ALL-IN-ONE MICROSCOPE SOLUTION

THE FEMTO3D ATLAS EXCEEDS THE BENEFITS OF EITHER GALVO OR RESONANT SYSTEMS WITH ACOUSTO-OPTIC SCANNING FOR FAST 3D IMAGING. IT CAN FUNCTION AS A STANDALONE UNIT, OFFERING RESEARCHERS A VERSATILE, ALL-IN-ONE SOLUTION FOR RAPID 3D FUNCTIONAL IMAGING.



FEMTO 3D ATLAS



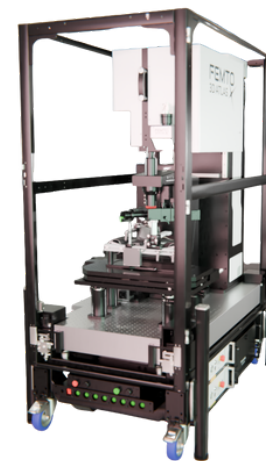
- 1 3D ROI SCANNING WITH 100 KHZ
- 2 3D-REAL-TIME MOTION CORRECTION
- 3 3D VOLTAGE IMAGING
- 4 3D PHOTOSTIMULATION
- 5 HIGH-SPEED ARBITRARY FRAME SCANNING
- 6 DEEP IMAGING CAPABILITIES
- 7 FLIM INTEGRATION AVAILABLE

FEMTONIX
20 YEARS OF EXPERIENCE

FEMTO3D ATLAS PLUG & PLAY

FEMTO3D ATLAS PLUG & PLAY MICROSCOPE IS A COMPACT, TURNKEY MULTIPHOTON SYSTEM THAT'S READY TO USE WITHIN AN HOUR OF DELIVERY.

EASILY RELOCATABLE, IT FEATURES STATE-OF-THE-ART 3D ACOUSTO-OPTIC TECHNOLOGY FOR ULTRA-FAST IN VIVO 3D IMAGING AND PHOTOSTIMULATION.



3D ROI SCANNING

3D ROI SCANNING WITH AN ACOUSTO-OPTIC MICROSCOPE ENABLES RAPID, FLEXIBLE TARGETING OF SPECIFIC STRUCTURES DEEP IN TISSUE WITHOUT WASTING TIME ON IRRELEVANT AREAS.

