

# Iconeus One

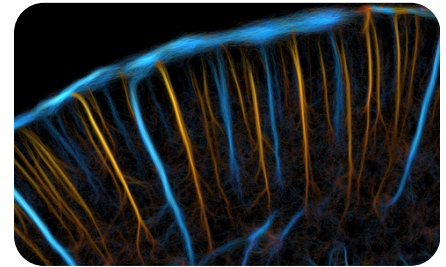
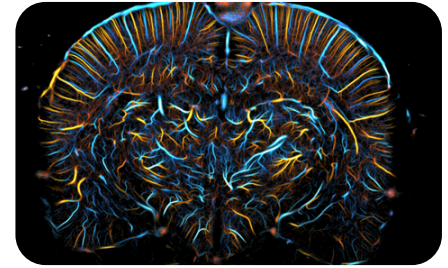
## Functional Ultrasound (fUS) Brain Imaging

Scintica:

### OVERVIEW

Iconeus One is a portable, wheeled functional ultrasound imaging station that uses patented multi-plane-wave ultrasound technology to generate real-time, high-sensitivity images of brain activity and blood flow, paired with an integrated software suite (IcoScan, IcoStudio, IcoLab) covering acquisition, visualization/analysis and batch processing.

Iconeus One is available in three configurations: Xplore, Xpand, and Xcel, offering different capabilities to meet a range of research requirements and budgets.



### Iconeus One Models



#### Iconeus One Xplore

Offering a versatile linear stage and easy-to-learn software for 2D imaging, Iconeus One Xplore is a powerful yet affordable option for anyone starting out with fUS.



#### Iconeus One Xpand

With a four-axis motorized platform, ULM capacity, and additional multi-dimensional options, Iconeus One Xpand offers the next level up in fUS functionality.



#### Iconeus One Xcel

If you're looking to push the boundaries of fUS, Iconeus One Xcel provides 256 channels, 3D ULM capability, expert-level software, and additional scientific support.

### Iconeus One system specifications

|                            |                                      |
|----------------------------|--------------------------------------|
| Spatial resolution         | 100 × 100 × 400 μm at 15 MHz         |
| Temporal resolution        | Down to 10 ms                        |
| Data capacity              | 10 TB, >25 Tflops                    |
| Imaging station dimensions | 810 mm (W) × 974 mm (D) × 651 mm (H) |

## Model summary

Use this table to quickly compare the three Iconeus One models, and work out which is best for you.

|                                           | XPLORE            | XPAND                              | XCEL                                                                         |
|-------------------------------------------|-------------------|------------------------------------|------------------------------------------------------------------------------|
| <b>Hardware</b>                           |                   |                                    |                                                                              |
| Portable imaging station                  | 128 channels      | 128 channels                       | 256 channels                                                                 |
| Scanning capability                       | One-axis          | Four-axis                          | Four-axis                                                                    |
| Probe(s)                                  | IcoPrime (15 MHz) | IcoPrime (15 MHz)                  | IcoPrime (15 MHz) +<br>IcoPrime-4D MultiArray or<br>IcoPrime-4D RCA (15 MHz) |
| Height-adjustable keyboard and monitor    | ✓                 | ✓                                  | ✓ (Two monitors)                                                             |
| 3D fUS capacity                           | ×                 | ✓ (Time-separated<br>multislicing) | ✓ (Simultaneous multislicing<br>& Volumetric)                                |
| ULM capacity                              | ×                 | ✓ (2D)                             | ✓ (2D, 3D)                                                                   |
| <b>Software*</b>                          |                   |                                    |                                                                              |
| Core fUS bundle                           | ✓                 | ✓                                  | ✓                                                                            |
| 3D fUS bundle                             | ×                 | ✓                                  | ✓                                                                            |
| ULM bundle                                | ×                 | ✓                                  | ✓                                                                            |
| Expert bundle                             | ×                 | ×                                  | ✓                                                                            |
| <b>Support</b>                            |                   |                                    |                                                                              |
| Installation training & one-year warranty | ✓                 | ✓                                  | ✓                                                                            |
| Annual routine maintenance visit(s)       | ×                 | 1                                  | 3                                                                            |
| Remote tech support                       | ✓                 | ✓                                  | ✓                                                                            |
| Scientific support                        | ×                 | ✓                                  | ✓ (Extended)                                                                 |

\* Provided with one user license and three additional licenses for off-line data analysis

