



## Leica VT1000A

### Superior fresh and fixed tissue sectioning

The VT1000A vibrating blade microtome fully automatic tissue sectioning system is part of the world-renowned Vibratome™ series of instruments. The Leica VT1000A is trusted for its reliability and ease of use. The intuitive design and simple controls are ideal for a wide range of applications.

- Precise adjustments allow for evenly cut fresh/fixed tissue from 35 microns up
- Operators control both the section thickness and number of sections with an easy to read LED display and three separate operating modes; automatic, single sectioning and manual
- Minimized deformation of delicate soft tissue, resulting in more uniform sections

Living up to Life

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MICROSYSTEMS

# Quick, Simple, Precise

The Leica VT1000A employs an accurate vibrating blade principle that allows sectioning without freezing or embedding, so the biological viability of the tissue can be maintained. The creation of artifacts, the alteration of morphology, the destruction of enzyme activities and other deleterious effects are avoided. Sections are also free of observable compressive distortion in the direction of the cut. With minimized deformation of delicate soft tissue, the result is more uniform sections.

The Leica VT1000A provides a versatile means of sectioning fresh or fixed tissue. The precision controls on the VT1000A make sectioning easy and convenient and it can easily be adapted to suit many applications. The instrument offers three separate operating modes – automatic, single sectioning and manual for ultimate sectioning control. Operating modes are displayed on an easy to read LED panel. Set up for each section is a simple process, allowing for any user within the lab to operate with ease. Its precise adjustments cut fresh/fixed tissue evenly from 35 microns up.

To optimize sectioning time and quality of the tissue, the Leica VT1000A is equipped with an adjustable cutting window. Additionally, the instrument provides a total vertical feed of 15 mm, allowing larger specimens and more sections to be attained. With a section speed of 0 to 2 mm per second and a rapid return stroke of 2 mm per second, the Leica VT1000A provides fast, efficient sectioning.

## Leica VT1000A Technical Specifications

Amplitude	from 0–3 mm (+/- 1.5 mm)
Cutting speed (+/- 10%)	0–5 mm/second
Return speed (+/- 10%)	5–7 mm/second
Total vertical specimen stroke	15 mm
Maximum specimen size	60x40 mm
Specimen orientation, rotating	360 degrees (full rotation with specimen tray)
Specimen plate, swiveling	0–15 degrees (range of specimen vice assembly)
Section thickness adjustment	Manual, 5 micron increments, Automated, 1 micron increments
Rated voltage range	100V or 220V (specified at time of order)
Rated frequency	50/60Hz
Size LxWxH (basic instrument)	53.34 x 30.48 x 30.48 cm
Weight (basic instrument)	22.68 kg

### The Starter Package Includes:

- VT1000A
- Specimen tray
- 2 specimen adhesives
- 20 VT Feather Blades
- Instrument cover
- 3 specimen blocks
- 1 year preventative maintenance

### The Professional Package Includes:

- VT1000A
- Deluxe Specimen Bath
- 3 specimen adhesives
- 30 VT Feather Blades
- Instrument cover
- 3 specimen blocks
- Rotating stage assembly
- Foot pedal
- Sapphire Knife
- 2 years preventative maintenance

### The Professional Gold Package Includes:

- VT1000A
- VT900R peltier refrigeration system
- 4 specimen adhesives
- 50 VT Feather Blades
- Instrument cover
- 3 specimen blocks
- Rotating stage assembly
- Foot pedal
- Sapphire Knife
- 3 years preventative maintenance

Product Name	Product Code
Leica VT1000A Starter CE	39072018-2
Leica VT1000A Professional CE	39072020-2
Leica VT1000A Professional Gold CE	39072022-2

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