

AMBITOME



The Versatile Dual Handwheel Ultramicrotome

The Ambitome is the first-of-its-kind dual handwheel ultramicrotome in our ultramicrotome series, designed to support operation with either hand. This unique capability frees the user's dominant hand for precise sample adjustments during sectioning, improving control.

By enhancing stability and operator flexibility, the Ambitome enables researchers to achieve more consistent, high-quality sections with greater confidence. The Ambitome is a versatile model for laboratories looking to elevate precision and efficiency in their sample preparation workflows.

FEATURES

- World's only dual handwheel Ultramicrotome for left- or right-hand operation.
- Allows users to operate with either hand, freeing the dominant hand for the more intricate task of manipulating sections.
- Perfect solution for some critical cryo section manipulation tasks prior to section transfer for analysis.
- Available in the following configurations:
 - Ambi XL Ultramicrotome
 - Ambi PC Ultramicrotome with PC control
 - Ambi PCZ Ultramicrotome with PC and HD Video
 - Ambi 3D Ultramicrotome with PC, HD Video and 1,000,000nm advance arm

ACCEPTS THE FOLLOING KNIVES

- Glass knives up to 12mm wide
- Triangular tungsten carbide knives
- Any commercial brand of diamond knives

ACCESSORY KIT

- Universal Specimen Holder
- 8mm Stepped Specimen Holder
- 7mm Flat Specimen Holder
- Arc Segment Holder
- Arc Mounting Stub
- Trimming Block
- Trimming Post
- Cable, fuses, wrenches

FEATURES	<i>AMBITOME XL™</i>	<i>AMBITOME PC™</i>	<i>AMBITOME PCZ™</i>	<i>AMBITOME 3D™</i>
Controllers	Tactile only	Computer and tactile	Computer and tactile	Computer and tactile
Touch Screen Monitor Display	No	Yes, with Visutrac™ display	Yes, with Visutrac™ display	Yes, with Visutrac™ display
Section thickness	5nm to 10µm	0nm to 15µm	0nm to 15µm	0nm to 15µm
Total Advance	200µm	200µm	200µm	1000µm
Cutting Speed	0.1 to 99.9mm/sec	0.1 to 100mm/sec, with automatic trim function	0.1 to 100mm/sec, with automatic trim function	0.1 to 100mm/sec, with automatic trim function
Cutting Window	0.2 mm (200 µm; 200,000 nm)	0.2 mm (200 µm; 200,000 nm)	0.2 mm (200 µm; 200,000 nm)	1 mm (1,000 µm; 1,000,000 nm)
Memory Channels	4	9	9	9
Stereomicroscope Options	<p>ACCU-SCOPE 3075 Binoculars</p> <ul style="list-style-type: none"> - 7:1 zoom - 6.7x to 45x magnification - 10x WF (22mm) eyepieces <p>or</p> <p>ZEISS Stemi 508 Binoculars</p> <ul style="list-style-type: none"> - 8:1 zoom - 6.3x to 50x magnification - 10 WF (23mm) eyepieces - ZEISS Stemi 16x eyepieces, increases magnification to 80x (available for purchase) 	<p>ACCU-SCOPE 3075 Binoculars</p> <ul style="list-style-type: none"> - 7:1 zoom - 6.7x to 45x magnification - 10x WF (22mm) eyepieces <p>or</p> <p>ZEISS Stemi 508 Binoculars</p> <ul style="list-style-type: none"> - 8:1 zoom - 6.3x to 50x magnification - 10 WF (23mm) eyepieces - ZEISS Stemi 16x eyepieces, increases magnification to 80x (available for purchase) 	<p>ACCU-SCOPE 3075 Trinoculars</p> <ul style="list-style-type: none"> - 7:1 zoom - 6.7x to 45x magnification - 10x WF (22mm) eyepieces - Phototube with 50/50% right path - C-mount camera adaptor <p>or</p> <p>ZEISS Stemi 508 Trinoculars</p> <ul style="list-style-type: none"> - 8:1 zoom - 6.3x to 50x magnification - 10 WF (23mm) eyepieces - Phototube with 50/50% right path - C-mount camera adaptor - ZEISS Stemi 16x eyepieces, increases magnification to 80x (available for purchase) 	<p>ACCU-SCOPE 3075 Trinoculars</p> <ul style="list-style-type: none"> - 7:1 zoom - 6.7x to 45x magnification - 10x WF (22mm) eyepieces - Phototube with 50/50% right path - C-mount camera adaptor <p>or</p> <p>ZEISS Stemi 508 Trinoculars</p> <ul style="list-style-type: none"> - 8:1 zoom - 6.3x to 50x magnification - 10 WF (23mm) eyepieces - Phototube with 50/50% right path - C-mount camera adaptor - ZEISS Stemi 16x eyepieces, increases magnification to 80x (available for purchase)
Camera	No	No	2.1 megapixel USB 3.1 color camera	2.1 megapixel USB 3.1 color camera
Knife Stage Movement:	50mm gross advance 25mm E-W travel 12mm N-S advance	50mm gross advance 25mm E-W travel 12mm N-S advance	50mm gross advance 25mm E-W travel 12mm N-S advance	50mm gross advance 25mm E-W travel 12mm N-S advance

ADDITIONAL ACCESSORIES AVAILABLE FOR PURCHASE**Room Temperature Specimen Holders**

- Vise type flat specimen holder
- Universal transilluminated specimen holder
- 7mm flat specimen transilluminated holder
- 5.6mm flat specimen transilluminated holder

Other PowerTome Accessories

- Static Line Ionizer
Ionization depolarization device, 115VAC or 220 - 240VAC
- Breath shield, for knife stage
- Water trough filler
Includes reservoir/pump, tubing and filler tube
- Specimen viewing mirror
Mounts on upper stage for straight-on viewing of specimen
- Easy-Lift glass knife spacer and post
- PowerTome dust cover
- Stereomicroscope mounted breath shield
- Automated water level control system
Maintains constant water level in knife boat, automatically adjusting a required. For use with Ambi PCZ, Ambi 3D, and ATUMtome



AUTOMATED WATER LEVEL CONTROL SYSTEM
(for use with PTPCZ, PT3D, and ATUMtome)



STATIC LINE IONIZER, 110VAC or 220 - 240VAC



WATER TROUGH FILLER
(PERISTALTIC WATER PUMP)