



## Magnetic separation, heating, cooling and shaking

Simplifying workflows, amplifying outcomes



**Fully automated**  
magnetic bead  
purification

**Compatible**  
with different  
labware formats

**Versatile**  
modules for  
optimized workflows

# Streamlining magnetic bead purification

**Hands-free vertical magnet movement and adjustable bead collection height:** enables automated bead collection and optimal magnetic bead capture at both low and high volumes.



**Strong magnet for minimal bead loss:** provides high bead yield and rapid bead capture, and minimizes contamination due to carryover.

**HEATMAG combines magnet and heating in one device, supporting workflows at temperatures of up to 65 °C:** enables the automation of magnetic bead purification steps at higher temperatures. This unique capability is crucial for tasks like lysis or elution.



**Built-in versatility:** compatible with different labware formats and can be fully automated on the ASSIST PLUS or used as a standalone module.

## MAG and HEATMAG

### Modules for magnetic bead separation

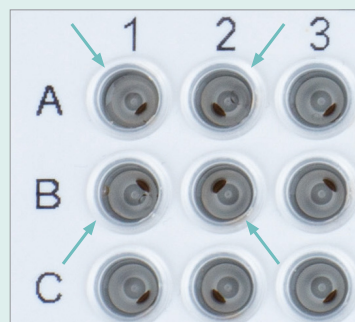
**MAG** and **HEATMAG** modules are user-friendly solutions for efficient magnetic bead purification in a broad range of molecular biology and proteomic workflows. Their strong magnets enable fast bead collection with minimal bead loss and carryover – for high yields – and the magnet height is fully adjustable depending on the volume. **HEATMAG** modules also feature a unique combination of magnetic separation and heating functions, providing optimal settings for nucleic acid extraction. The modules are compatible with a variety of labware types, providing added versatility for a wide range of applications.

### Automated magnetic bead collection

#### 💡 Did you know?

#### Strong magnets for fast bead collection

Beads are collected by engaging strong magnets at the side of the well for automated processing. This allows complete and precise liquid exchange without bead carryover.



## Effortless bead processing across labware formats for diverse experimental needs

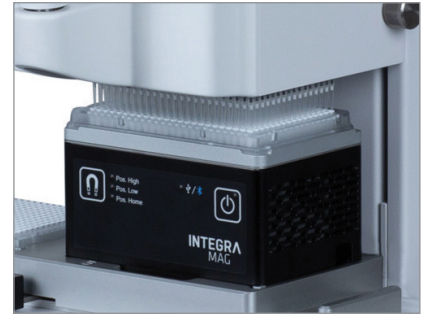
A magnetic array and different labware adapters ensure optimal labware positioning and bead collection, and superior temperature transmission on the **HEATMAG**. The **MAG** module offers unmatched versatility due to its interchangeable magnetic arrays, accommodating a broad range of labware options from 1.5 ml tubes to 384 well PCR plates. This provides researchers with the freedom to effortlessly adapt their experiments on the go, according to their specific experimental requirements.



Adapter for 1.5 ml microcentrifuge tubes



Adapter for 96 well PCR plates



Adapter for 384 well PCR plates

## MAG and HEATMAG modules go hand in hand with INTEGRA's pipetting platforms

For automated magnetic bead clean-up




The ASSIST PLUS pipetting robot is easy to use, compact and affordable, making automated pipetting accessible to virtually any lab. **MAG** and **HEATMAG** modules can be integrated with ASSIST PLUS to enable fully walk-away sample processing, optimizing workflow efficiency in magnetic bead purification protocols.

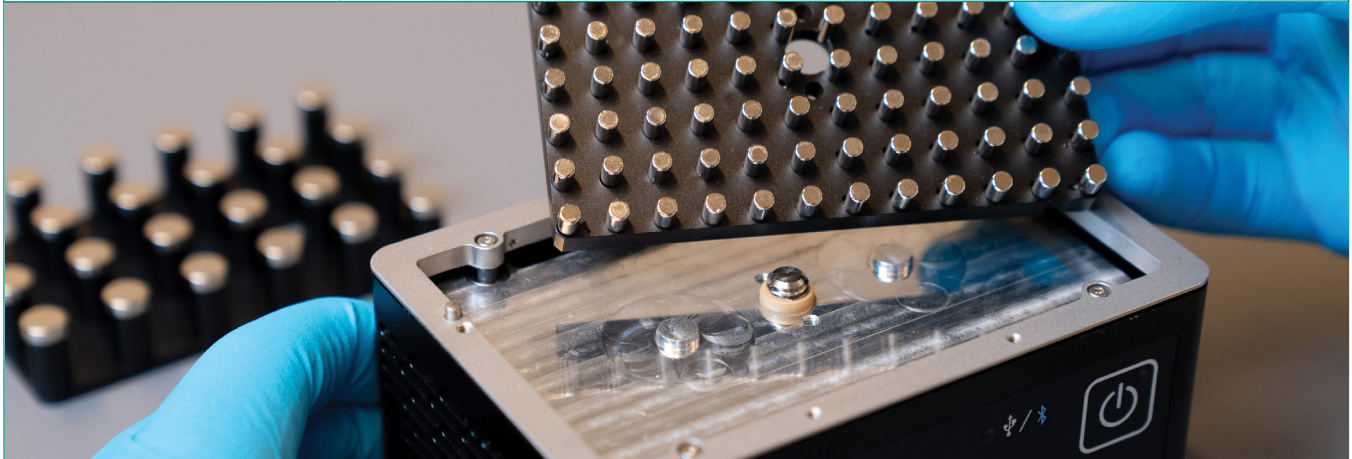
For high throughput magnetic bead clean-ups



VIAFLO 96, VIAFLO 384 and MINI 96 represent INTEGRA's offering of 24, 96 and 384 channel handheld electronic pipettes. Combining **MAG** and **HEATMAG** modules with VIAFLO 96, VIAFLO 384 or MINI 96 allows the simultaneous processing of 24 tubes, or 96 or 384 wells for high throughput magnetic bead clean-up.

## Did you know?

			Exchangeable magnetic arrays
MAG	✓	No	✓
HEATMAG	✓	✓	No



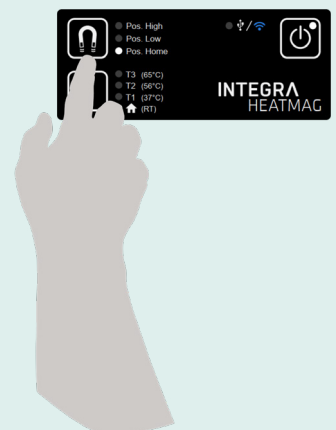
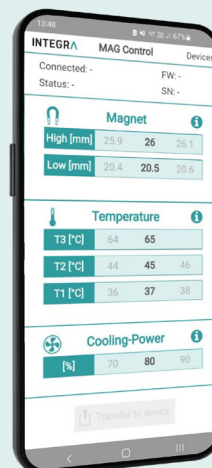
MAG module features tool-free exchangeable magnetic arrays to work with a broad range of labware types.

## Experience intuitive user interaction

The ASSIST PLUS pipetting robot provides seamless control of **MAG** and **HEATMAG** modules through dedicated programming steps, offering straightforward protocol set-up.

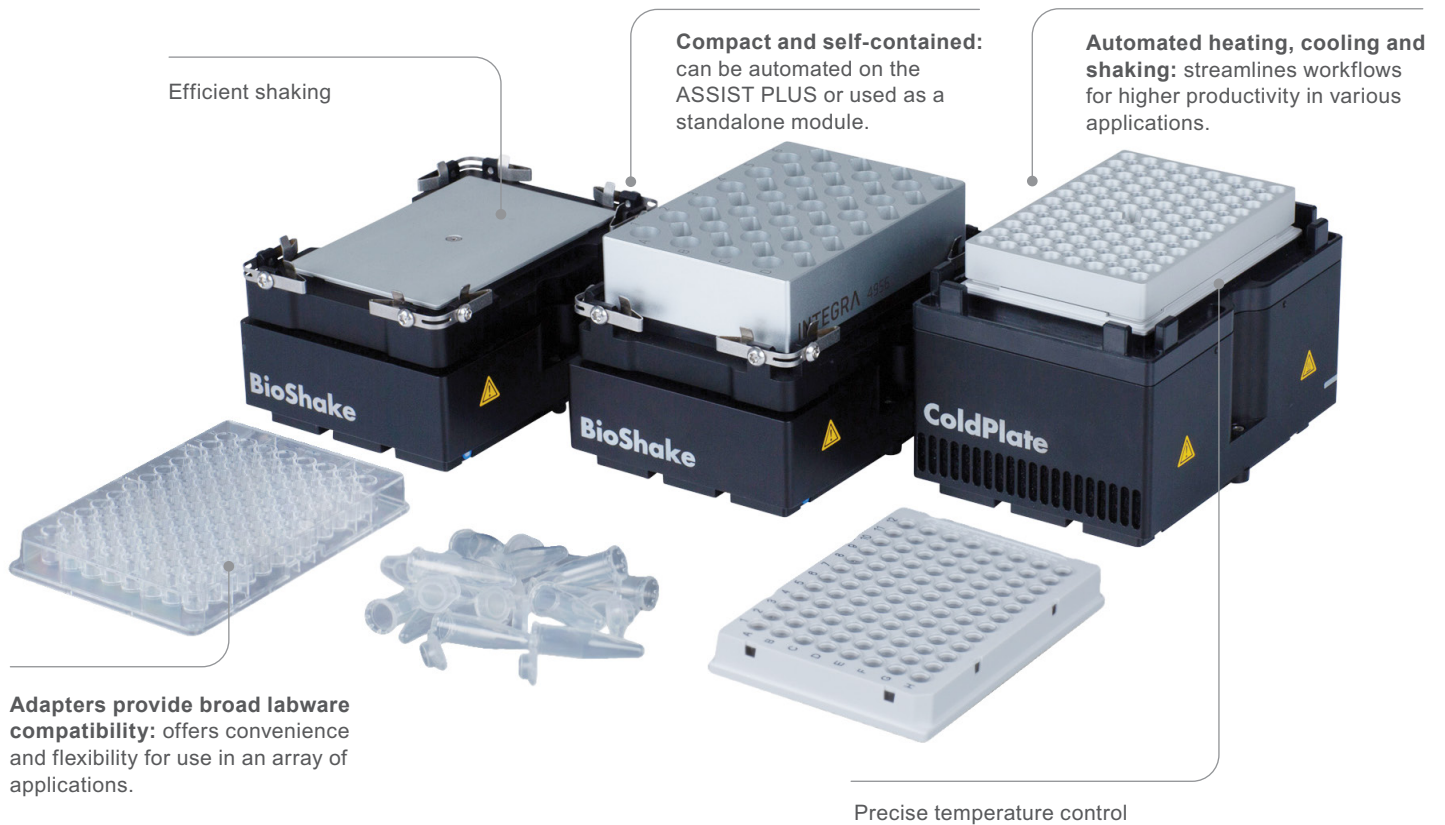


**MAG** and **HEATMAG** modules can be used with the MINI 96, VIAFLO 96 or VIAFLO 384 – or as a standalone unit – with one-button control on the simplified user interface, providing convenient magnet height and temperature adjustment. Connect the **MAG** and **HEATMAG** modules to a computer via USB for easy customization, or install the Communication Module to enable Bluetooth communication with the **MAG** Control App on mobile devices.





## Ultimate thermal and shaking control



## COLDPLATE, BIOSHAKE 3000-T, BIOSHAKE 3000

### Modules for heating, cooling and shaking

The modules enable you to integrate heating, cooling and shaking steps into your automated workflow, reducing manual intervention for longer walk-away times and greater lab productivity. They provide precise and uniform temperature control across a large temperature range, and quiet and efficient orbital shaking, supporting assay reproducibility and accurate results.

The robust COLDPLATE, BIOSHAKE 3000-T and BIOSHAKE 3000 modules are ideal for use in automated workflows on ASSIST PLUS or for high throughput applications on VIAFLO 96 and VIAFLO 384.

Extend automation into heating, cooling and shaking for enhanced operational standards and maximum lab throughput.



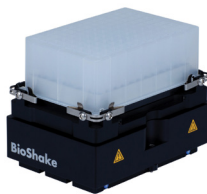
### Convenient assimilation of heating, cooling and shaking

## COLDPLATE



COLDPLATE offers precise and uniform temperature control from 0 to 99 °C, adaptable labware options for optimal thermal transmission, and a rapid heat up/cool down rate.

## BIOSHAKE 3000-T



3000 rpm



3000 rpm

Both the BIOSHAKE 3000-T and BIOSHAKE 3000 offer precise shaking up to 3000 rpm, catering to the demands of modern research and analysis. The BIOSHAKE 3000-T combines this capability with accurate heating, and both modules ensure thorough mixing for various lab applications.

## BIOSHAKE 3000



**Compact design:** these modules boast compact footprints that require minimal bench space in the laboratory and do not need an external control unit.

**Reliable high performance:** the modules offer reliable operation over extended periods, making them suitable for demanding laboratory tasks and giving researchers confidence in the accuracy of their results.

**Consistent workflows:** modules provide the precision and control needed to minimize variability in results, enhancing the reproducibility of a range of experiments.

**Labware flexibility:** a large variety of common adapters allows the modules to accommodate different labware formats and samples, offering versatility for multiple different applications in the laboratory.

**Custom-made adapters:** INTEGRA offers an extensive custom-made adapter service to allow almost any labware to fit onto the modules.

**Integration:** modules can be used with the ASSIST PLUS, VIAFLO 96 and VIAFLO 384, and are easy to mount and detach on demand when configuring different deck set-ups for adaptability in experimental design.

## Streamlined workflows using ASSIST PLUS, VIAFLO 96 and VIAFLO 384

Complete application protocols for the modules can be programmed with VIALAB pipette automation software for use on the ASSIST PLUS, using the connection cable provided. VIALAB offers predefined temperature and shaking parameters, simplifying the programming process for users and enabling convenient control.

Easily manage modules loaded onto VIAFLO 96 or VIAFLO 384 instruments via your PC, with the user-friendly software interface, HCS Control.



## Technical data

Model	MAG	HEATMAG	COLDPLATE	BIOSHAKE 3000-T	BIOSHAKE 3000
Part no.	4900	4901	4950	4952	4951
Magnetic separation	✓	✓	No	No	No
Cooling	No	No	down to 0 °C	No	No
Heating	No	ambient to 65 °C	0 to 99 °C	ambient to 99 °C	No
Shaking	No	No	No	200-3000 rpm	200-3000 rpm
Compatible labware	1.5 ml tubes (4 x 6) 96 well PCR plate 384 well PCR plate	1.5 ml tubes (4 x 6) 96 well PCR plate	1.5 ml tubes (4 x 6) 2.0 ml tubes (4 x 6) Flat bottom plate 96 well PCR plate 384 well PCR plate 2.2 ml 96 well deep well plate		
Application examples	Magnetic bead workflows (NGS library purification, PCR purifications, nucleic acid extractions etc.)		Assay incubation, keeping reagents/ samples cold/warm, enzymatic reactions	Mixing, enzymatic reactions, liquid-liquid extractions	Mixing, liquid-liquid extractions
Control	VIALAB, action buttons on the module, MAG Control for PC and app for mobile devices		VIALAB, HCS Control for PC		
Dimensions (W x D x H)	13.3 x 7 x 8.9 cm (5.2 x 2.8 x 3.5")	13.3 x 7.3 x 8.9 cm (5.2 x 2.9 x 3.5")	14.2 x 9.9 x 7.9 cm (5.6 x 3.9 x 3.11")	14.2 x 9.9 x 6.3 cm (5.6 x 3.9 x 2.5")	14.2 x 9.9 x 6.1 cm (5.6 x 3.9 x 2.4")
Weight	1.0 kg (2.2 lbs)	1.1 kg (2.4 lbs)	1.4 kg (3.1 lbs)	1.7 kg (3.8 lbs)	1.5 kg (3.3 lbs)
Operating conditions	Temperature: 5 to 40 °C, humidity: <80 %		Temperature: 5 to 40 °C, humidity: <85 %, non-condensing		
Power requirements	100-240 VAC, 50/60 Hz, device input: 24 V, 120 W				

## Ordering information

Modules and accessories	Part no.
MAG module for magnetic separation	4900
HEATMAG module for heating and magnetic separation	4901
Adapter for 1.5 ml tubes, format 4 x 6 (MAG / HEATMAG)	4905
Adapter for 96 well PCR plates (MAG / HEATMAG)	4906
Adapter and magnetic array for 384 well PCR plates (MAG)	4908
Communication module for MAG modules	4222
COLDPLATE for cooling and heating, integration ready	4950
BIOSHAKE 3000 for shaking, integration ready	4951
BIOSHAKE 3000-T for heating and shaking, integration ready	4952
Adapter for flat bottom plates (COLDPLATE / BIOSHAKE)	4953
Adapter for 96 well PCR plates (COLDPLATE / BIOSHAKE)	4954
Adapter for 384 well PCR plates (COLDPLATE / BIOSHAKE)	4955
Adapter for 24 x 1.5 ml tubes, format 4 x 6 (COLDPLATE / BIOSHAKE)	4956
Adapter for 24 x 2.0 ml screw tubes, format 4 x 6 (COLDPLATE / BIOSHAKE)	4962
Adapter for 2.2 ml 96 well deep well plates (COLDPLATE / BIOSHAKE)	4961
ASSIST PLUS pipetting robot	4505
VIAFLO 96 and VIAFLO 384, 24, 96 and 384 channel electronic pipette	6001, 6031
MINI 96 portable 96 channel electronic pipette (0.5-1250 µl)	4801, 4802, 4803, 4804
D-ONE single channel pipetting module	4539
VOYAGER adjustable tip spacing pipettes (4-12 channels, 0.5-1250 µl)	<a href="https://www.integra-biosciences.com/en/electronic-pipettes/voyager">https://www.integra-biosciences.com/en/electronic-pipettes/voyager</a>
VIAFLO lightweight electronic pipettes (8-16 channels, 0.5-1250 µl)	<a href="https://www.integra-biosciences.com/en/electronic-pipettes/viaflo">https://www.integra-biosciences.com/en/electronic-pipettes/viaflo</a>





Contact us:

