



 **myra+**

**Automated qPCR System**

Sample | Setup | Analysis | Result



## Automated qPCR System

Combining next generation qPCR technology with state of the art liquid handling hardware. The Myra+ is an automated molecular instrument ideal for any lab or researcher.

## Sample to Answer



## Sample Prep

Myra+ is equipped to handle your sample preparation needs, whether you're using standard magnetic-based extraction methods or going directly to PCR.

The device is versatile enough to process various sample formats. For samples that include swabs, Myra+ is uniquely designed to prevent collisions by automatically pushing the swab aside, ensuring smooth operation.

## V-caps

Our proprietary V-cap tubes simplify the process of loading qPCR reactions directly into the on-deck Mic cycler. The design uses centrifugal force to push the liquid through an aperture in the cap and into the tube, beneath the pre-filled oil, ensuring efficient and accurate sample processing.

## Open Platform

There's no need to be confined to costly micro-fluidic cartridges. Experience flexibility with your assays and protocols with Myra+.

Features include:

- Vortex mixing
- Multi-tube aspiration
- Film piercing
- Extensive consumable library
- Lyophilized reagent compatible

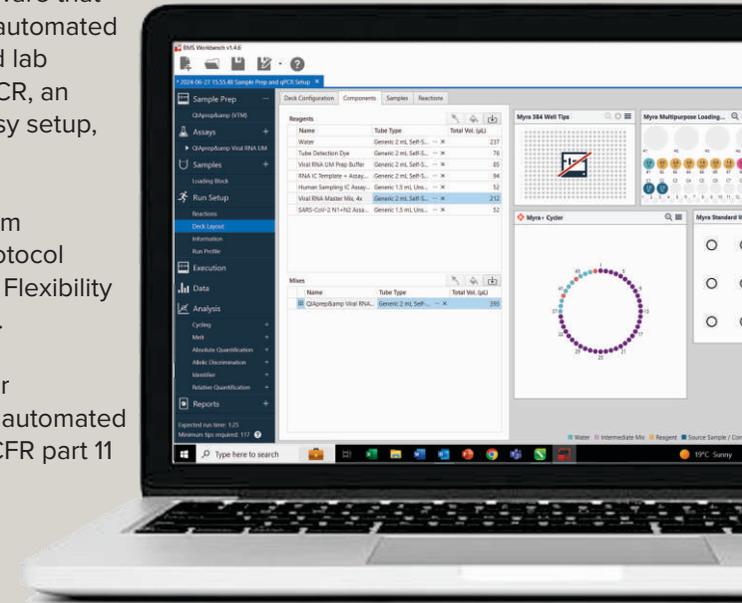


## Intuitive Software

The Myra+ boasts software that stands out from other automated platforms. For standard lab operations such as qPCR, an intuitive UI enables easy setup, running, and analysis.

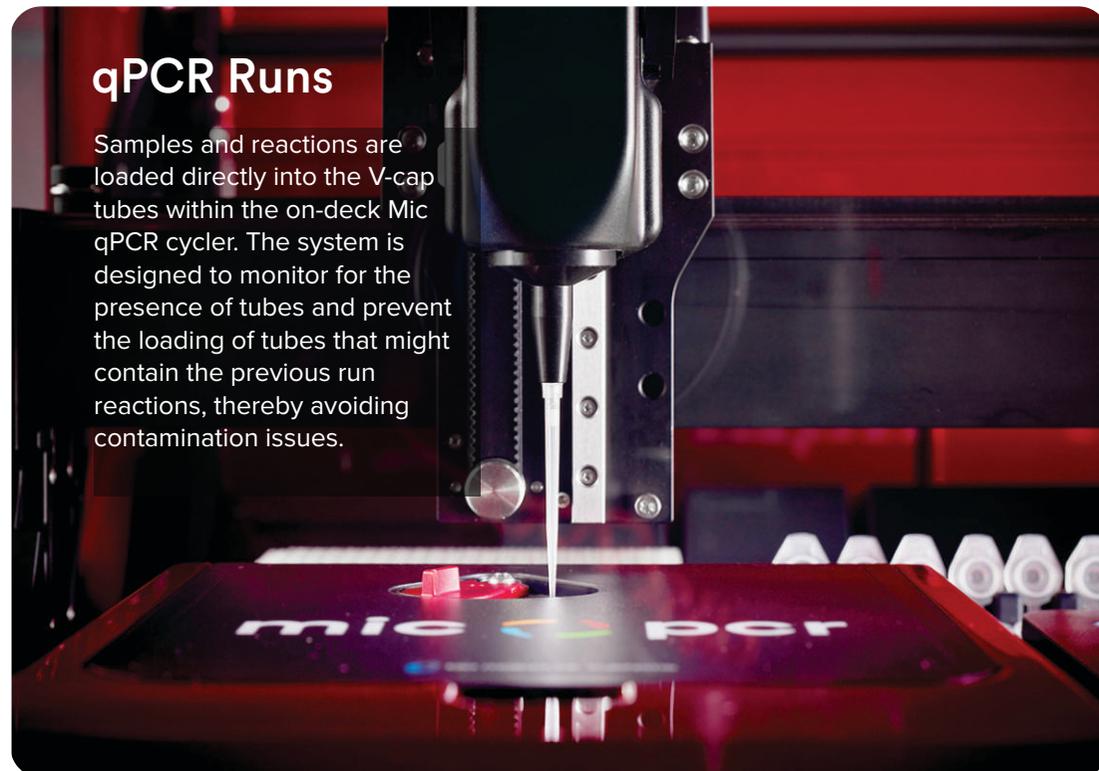
Create your own custom protocols using our protocol development function. Flexibility without the complexity.

LIMS compatibility, user permission levels, and automated analysis functions. 21 CFR part 11 compliant.



## qPCR Runs

Samples and reactions are loaded directly into the V-cap tubes within the on-deck Mic qPCR cycler. The system is designed to monitor for the presence of tubes and prevent the loading of tubes that might contain the previous run reactions, thereby avoiding contamination issues.

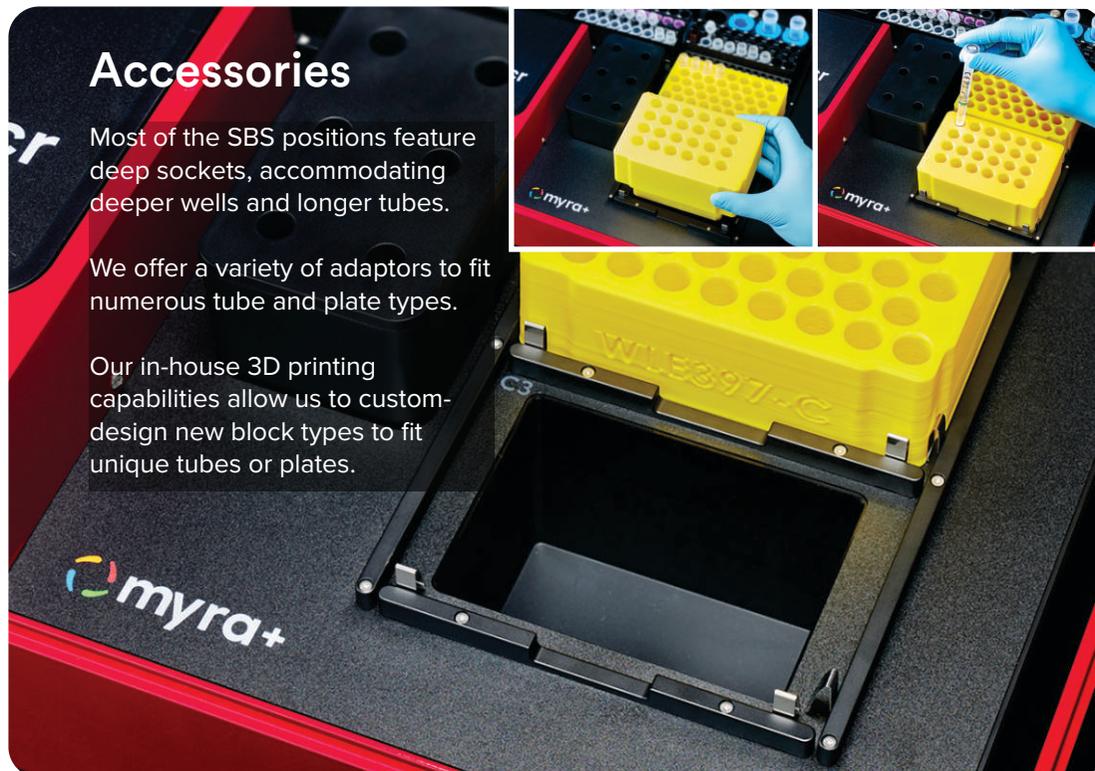


## Accessories

Most of the SBS positions feature deep sockets, accommodating deeper wells and longer tubes.

We offer a variety of adaptors to fit numerous tube and plate types.

Our in-house 3D printing capabilities allow us to custom-design new block types to fit unique tubes or plates.



# Specifications



468 mm 18 kg



520 mm



356 mm  
(635 mm lid open)

Closed loop, 100  $\mu$ m resolution  
Pipette  
Pressure sensing  
High precision camera  
Single or multi-dispense

Volume 1 - 50  $\mu$ L  
Tips per rack 384  
Precision 1  $\mu$ L 5% CV  
5 - 50  $\mu$ L 1% CV  
Accuracy 1  $\mu$ L < 10%  
5 - 50  $\mu$ L 1%

Thermal Performance  
Temp. accuracy  $\pm$  0.25 $^{\circ}$ C  
Temp. uniformity  $\pm$  0.10 $^{\circ}$ C  
Sample ramp rates Heating: 4 $^{\circ}$ C/s  
Cooling: 3 $^{\circ}$ C/s  
Temperature range 35 - 99 $^{\circ}$ C (40 $^{\circ}$ C min when cycling)

Communication Connection type USB 2.0  
Min. PC requirements Intel Core i5 or equivalent  
8 GB RAM, 1 GB disk space  
1366 x 768 display

Contamination control  
Tip disposal Internal enclosed waste tub  
UV decontamination High intensity 70 mW  
280 nm UV LED  
HEPA air filtration 99.98% at 0.3  $\mu$ m

Optical  
Detectors 4x Photodiode  
Excitation sources 4x High energy LED  
Acquisition time 1 s

Environment Temperature range 18 - 30 $^{\circ}$ C  
Humidity range 20 - 80%

Reaction Vessels  
Samples per instrument 48  
Reaction volume 5 - 25  $\mu$ L

Designed and manufactured in Australia by



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## Head Office

5 - 7 Tonka St.  
Yatala QLD 4207  
AUSTRALIA

## Sales & Support

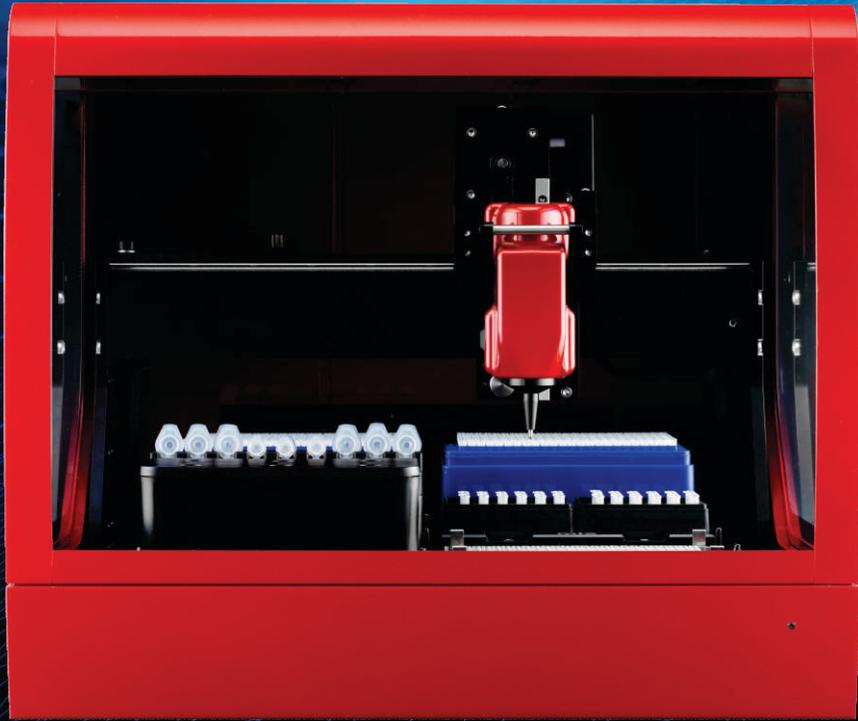
Ste 504, 24-30 Springfield Ave.  
Potts Point NSW 2011  
AUSTRALIA

## UK Sales

22 Chancery Ln.  
London WC2A 1LS  
UNITED KINGDOM  
uksales@

## USA Sales

Ste 314, 157A 1st St.  
Jersey City NJ 07302  
UNITED STATES  
usasales@



 **myra**

**Liquid Handling System**

Performance | Size | Simplicity

  
bio molecular systems

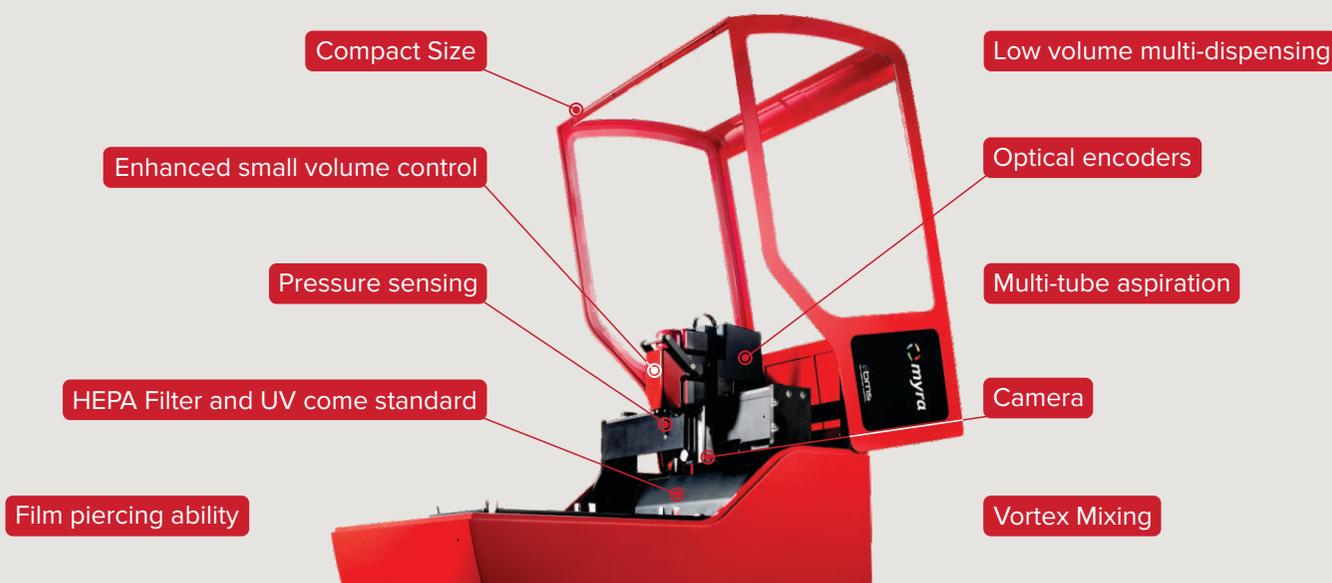
Made for extraordinary life



## Liquid Handling System

Your solution for precision and efficiency in pipetting work flows. Designed to deliver unmatched accuracy and reliability for your most demanding applications.

### Open your eyes to new possibilities



### State of the Art Hardware

Closed loop axis control using optical encoders with advanced path planning and error detection.

High precision pipette tip positioning for small aperture tubes such as 1536 well plates.

Pressure based liquid level sensing that can monitor the aspirate and dispense process for errors. No need for conductive tips!

Long life UV LED, easy replacement HEPA filter system and closed waste tub reduce the risk of contamination.

### Compact Design

Each Interchangeable pipette head contains its own calibration data and controller. Swap and go.

Zero downtime for calibration.

Dispense 1 – 50  $\mu$ L with exceptional accuracy and precision. Especially for volumes  $< 5 \mu$ L.

Using 384 well pipette tips means you swap out tip racks less often.

Integrated ejection and closed waste container.



At only 10 kg and with a footprint of less than 1700 cm<sup>2</sup> Myra is half the size of other in class liquid handling systems.

# Applications



**qPCR** • Mic • 96 • 384 • RG  
**dPCR** • Bio Rad® • Stilla® • Qiagen®



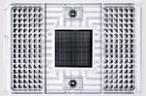
**Cell culture media prep**



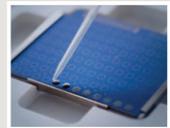
**NGS** • Library prep • mag cleanup • size selection • normalisation • pooling



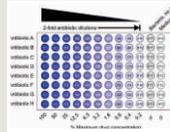
**Kinase Assay prep** • ATP-Glo™ • TR-FRET



**Microfluidic Prep** • BioMark™ IFC Dynamic Array



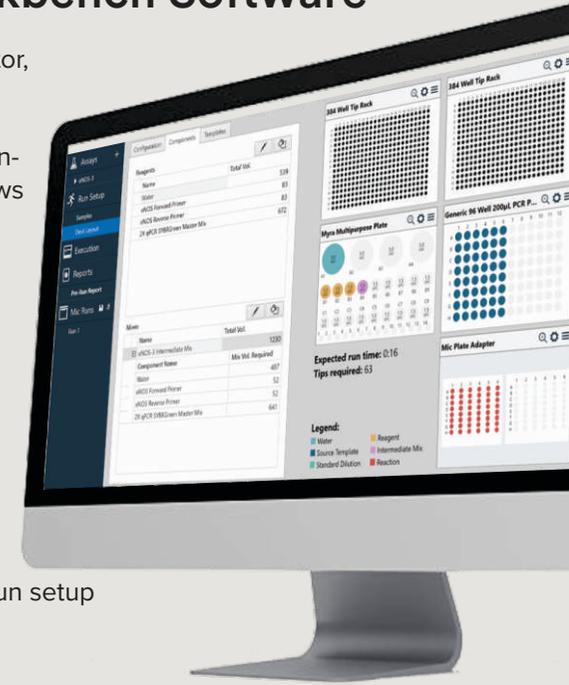
**MALDI-TOF MS prep** • Bruker® • Shimadzu®



**Microbiology** • Min. inhibitory concentration • microscopy prep.

# Simplicity with Workbench Software

Effective software should be a facilitator, not a dictator, of your work. While streamlining operations, Workbench maintains flexibility by enabling Python-based scripting to tailor your work flows to Myra. Moreover, its full integration with the Mic qPCR cyclers ensures seamlessness.



- Create protocols
- Replicates
- Normalization
- Pooling
- Cherry picking
- Complex dilutions
- CSV file import
- Combine sample preparation with run setup
- Multiple plate types per destination
- Expansive consumable library

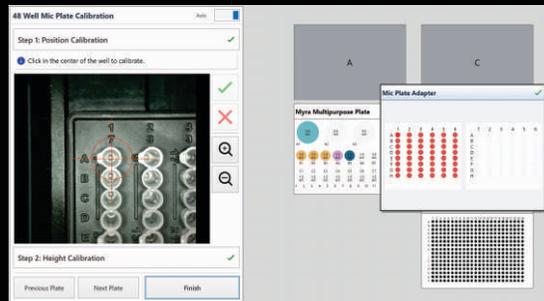
# Vision System with AI

The first pipetting robot that can see!

- Single click plate calibration.
- Tip, tube and plate identification.
- Missing tube and closed cap detection.

Future developments include:

- Automatic calibration verification.
- Barcode reading.
- Real-time pressure feedback for bubbly and viscous reagents.



Use the camera to precisely and easily calibrate plate and tube positions. Click and set.

# Accessories

Magnetic Station accessory for NGS Library prep and nucleic acid extraction.

Myra Multipurpose block gives flexibility in setup without compromising space.

Cold blocks to keep plates cool for over 2 hours.

In house ability for BMS to 3D-print blocks to house exotic tubes or plate types.

Add your own plate or tube type to the library.



# Specifications



460 mm | 10 kg



360 mm



310 mm  
(610 mm lid open)

Performance	Position control	Closed loop, 100 $\mu$ m resolution
	Level detection type	Pressure sensing
	Calibration	High precision camera
	Strategy	Single or multi-dispense

Communication	Connection type	USB 2.0
	Min. PC requirements	Intel Core i5 or equivalent 8 GB RAM, 1 GB disk space 1366 x 768 display

Environment	Temperature range	18 - 30°C
	Humidity range	20 - 80%

Pipette	Volume	1 - 50 $\mu$ L	
	Tips per rack	384	
	Precision	1 $\mu$ L	5% CV
		5 - 50 $\mu$ L	1% CV
Accuracy	1 $\mu$ L	$\leq$ 10%	
	5 - 50 $\mu$ L	1%	

Contamination control	Tip disposal	Internal enclosed waste tub
	UV decontamination	High intensity 70 mW 280 nm UV LED
	HEPA air filtration	99.98% at 0.3 $\mu$ m

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