



1536 Pipetting Head
for CyBi®-Well vario



The 1536-channel pipetting head is the latest member of the CyBi®-Well vario pipetting head family.

The pipetting head uses our unique and well-proven tip sealing system. The 1536 air displacement pistons allow the simultaneous transfer and filling of all wells of a 1536-well plate in one single step.

With more than 25 years of experience, CyBio is a leading brand for high quality liquid handling technologies and automation solutions. In the pharmaceutical and life science industries, CyBio's products enjoy the highest reputation for precision, reliability and simplicity.

The 1536 head offers:

- 1536 gasket-sealed tips
- 1536 x uniform tip height
- Working volume up to 10 µl
- Volume freely selectable in 0.01 µl steps
- Full compatibility with all CyBi®-Well vario systems

Since 2009 CyBio's products extend the portfolio of the Analytik Jena. The Analytik Jena AG is a leading manufacturer of analytical and bioanalytical systems for industrial and scientific applications.



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Introduction

Why a 1536 Pipetting Head?

For more than 10 years 384-well CyBi®-Wells and CyBi®-Well vario instruments have already proven to run 1536 well plates as a matter of routine. Based on this expertise, we offer a powerful solution for simultaneous 1536 applications.

The 1536 Pipetting Head serves the ongoing trend to lower assay volumes and high density plates, founded on the endeavour to reduce reagent and compound volumes and therefore reduce the cost per well.

Typical workflow

Today's typical workflows in 1536-well microplates with 384-channel heads involve sequential aspirating and pipetting (including wash steps) quadrant by quadrant. Those methods are cross contamination free and accurate but time consuming. The easiest way to overcome all these constraints is simultaneous pipetting of all 1536-wells in a single step using the 1536 Pipetting Head in conjunction with the CyBi®-Well vario system.

Technology

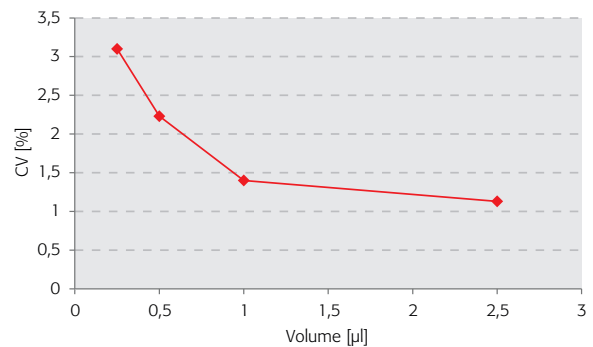
1536 Pipetting Head for CyBi®-Well vario systems is using the known and well-proven tip sealing system with 1536 parallel moving air displacement pistons. The tip sealing end is pressed against a gasket and creates an airtight seal with the piston system positioned above the gasket. Tips are located in tip tray to ensure uniform tip height for all 1536 tips.

Performance

The graph shows typical data using p-nitrophenol (absorption readout) in aqueous solution. Aspiration with overstroke; residual liquid back to reservoir. For dry dispensing we recommend the use of a spring loaded "soft-touch" adapter. However, performance directly depends on the flatness of the target plate.

Technical data 1536 Pipetting Head

Full compatibility with all existing CyBi®-Well vario platforms	
Technology	air displacement
Usage	1536 parallel sample transfer
Working volume	up to 10 µl
Volume resolution	0.01 µl steps
Tips	Fixed glass tips, polymer coated or disposable PP-tips
Precision	1–5 µl ≤ 3 %; > 5 µl ≤ 2 %
Accessories	Spring loaded soft touch adapter; Tip wash station; reservoir



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Subject to changes in design and scope of delivery as well as further technical development!

