

Capture cellular phenotypes and responses of rapidly developing biological processes with the Thermo Scientific Cellomics® ArrayScan® VTI Liquid Handling Module. Add this module to your ArrayScan VTI to automate live cell experiments for a range of biologies like calcium mobilization from GPCR activation.

Thermo Scientific Cellomics ArrayScan VTI Liquid Handling Module



Integrated Module for On-Board Liquid Handling

Expand the capabilities of your Thermo Scientific Cellomics ArrayScan VTI HCS Reader through the addition of liquid handling. On-board pipetting enables the direct measurement of quickly developing biologies, kinetic studies of biology and combination target studies resulting in comprehensive pharmacological data down to the individual cell level.

This module is designed to work with the Thermo Scientific Cellomics Live Cell Module, expanding the breadth of cell processes that can be monitored. Full function aspirate, dispense and mixing are available from 4 deck locations. The module is capable of single tip aspirate

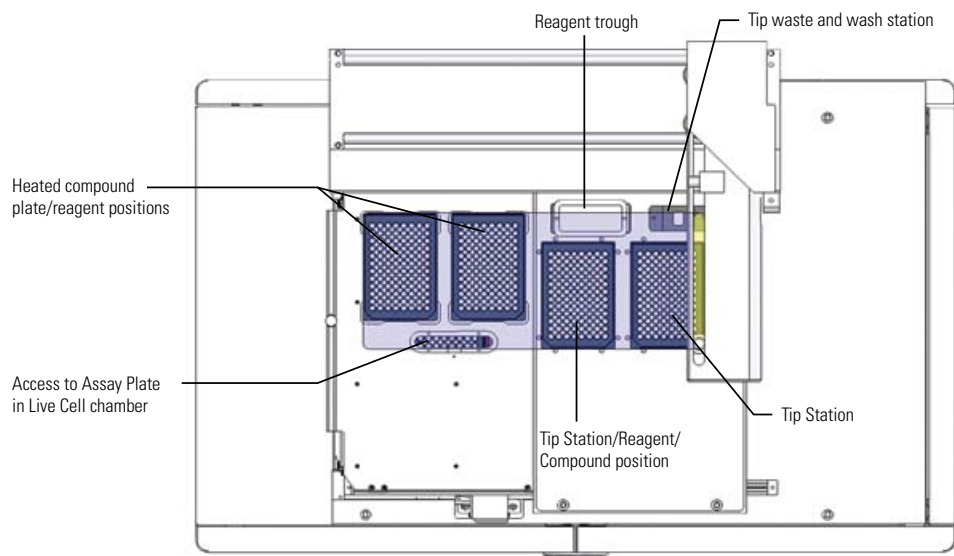
and dispense at any location, creating a highly flexible instrument. Compatible with 96 and 384 well plates, the module utilizes disposable tips with a dispense volume range of 3 – 200 μ L. An optional disposable tip wash reduces the risk of cross contamination.

The Liquid Handling Module is fully compatible with all ArrayScan VTIs. Seamless integration with the ArrayScan software provides full use of industry leading functionality such as intelligent acQuisition, multiple protocols and automated plate-handling. In addition, pipetting will not interfere with screening or multiple operator use.

Expand the Possibilities

The module's synchronous dispense-while-imaging capability, combined with kinetic image capture, a market-leading range of image analysis algorithms, and "on the fly" processing, allow the real-time capture of cellular phenotypes and rapid biological responses.

The Liquid Handling Module allows the easy automation of complex experiments including dye loading, media conditioning, compound addition, incubation, and stimulus addition. The ArrayScan VTI with Liquid Handling Module provides a best-in-class automated solution for pharmacological studies of individual cell responses.



Key Features

- Uses disposable tips
- Full function liquid handling from any plate or trough
- Industry standard arm with single pipette tip driven by syringe pump
- Compatible with all ArrayScan VTIs
- Interchangeable with the Thermo Scientific Cellomics Brightfield Module
- Dynamic access to compound and assay plates through plate protocol supported
- One-to-many and many-to-one transfer scenarios are supported

Thermo Scientific Cellomics ArrayScan VTI Liquid Handling Module Specifications

Microplate types	<ul style="list-style-type: none"> • SBS conforming plates, up to 384 well • 6-22 mm plate height
Dispense volume	<ul style="list-style-type: none"> • 3 μL - 200 μL +/-5% in 1 μL increments
Deck positions	<ul style="list-style-type: none"> • 3 plate and 1 quarter trough
Dimensions (cm)	<ul style="list-style-type: none"> • 87.63 x 109.22 x 62.23
Weight (kg)	<ul style="list-style-type: none"> • 140.43
Permissible ambient temperature range during operation	<ul style="list-style-type: none"> • + 18°C to + 25°C
Permissible relative humidity during operation (non-condensing)	<ul style="list-style-type: none"> • < 75% at 30°C
Power requirements	<ul style="list-style-type: none"> • 120 V AC \pm 10% / 60 Hz or 230V AC \pm 10% / 50 Hz

Product Name	Catalog Number	Description
Thermo Scientific Cellomics Liquid Handling Module	N01-0117-A	An automated, single tip, liquid handling robot module for the ArrayScan VTI using disposable tips (standard and liquid level sensing) to both aspirate and dispense from multiple deck and live cell chamber locations. Available for all 500 and 600 series instruments with and without live cell chambers. Price for factory fit.
Thermo Scientific Cellomics ArrayScan VTI HCS Reader	N01-0002A (115/100V) N01-0002B (230V)	Automated fluorescence microscopic imaging system designed for high content screening and analysis. The instrument features optics by Carl Zeiss®, broad white-light source, 12-bit cooled CCD camera, and options for plate handling, Brightfield, liquid handling and environmental control.
Thermo Scientific Cellomics Live Cell Module	N01-0014	Environmental controls enable live cell imaging and analysis.

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