

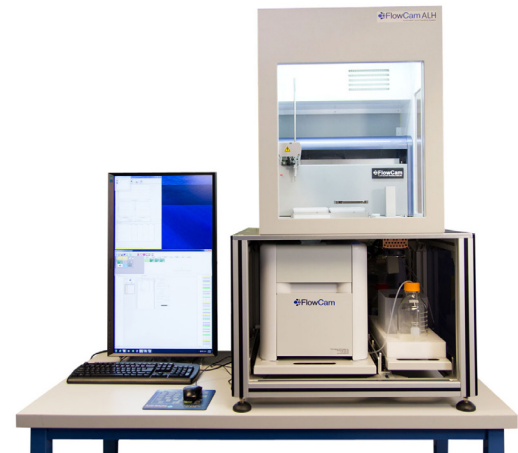
# High-Throughput Processing, Unattended Operation

## OVERVIEW

The FlowCam<sup>®</sup> ALH automated liquid handling system from Yokogawa Fluid Imaging Technologies integrates with the FlowCam 8000 Series and the FlowCam Cyano for uninterrupted processing of samples.

The FlowCam ALH allows up to 96 samples to be queued for unattended operation, improving repeatability and increasing productivity. The FlowCam ALH features:

- Programmable pre-analysis sample preparation
- Integrated heating, cooling, and shaking options
- Positive pressure HEPA filtration
- Disposable pipette tip compatibility
- Standard SBS format labware
- Accurate dispensing of liquids with a range of viscosities
- Vertical set-up that saves bench space
- Complete control of workflows by user
- Particle identification via VisualSpreadsheet<sup>®</sup> integration



## BENEFITS

Maximize throughput and increase productivity

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Improve accuracy and reproducibility

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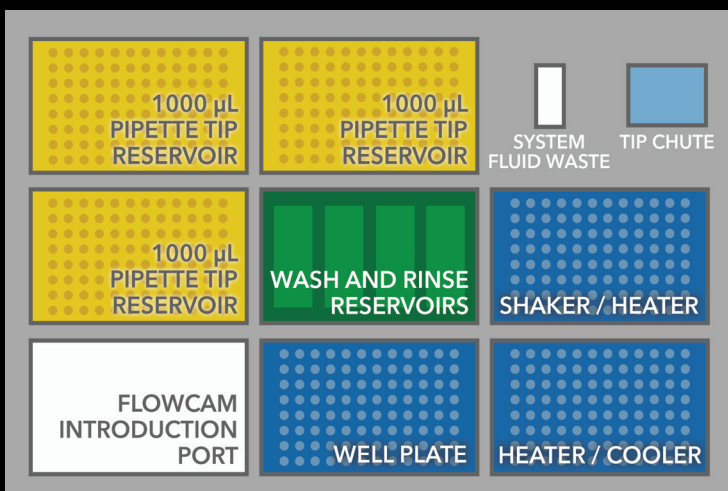
Reduce training and processing time

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Decrease sample contamination

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Reduce variability and errors from manual pipetting



GRAPHICAL  
INTERFACE  
FOR LABWARE  
ALLOWS RAPID  
REPOSITIONING  
OF SAMPLES,  
REAGENTS, AND  
DILUENTS

+1-207-289-3200

contact@fluidimaging.com

www.fluidimaging.com

# FLOWCAM® ALH

## HIGH-THROUGHPUT PROCESSING, UNATTENDED OPERATION

FlowCam ALH	
Operating principle	Single robotic XYZ arm, hydraulic fill on all fluidics
Labware format	SBS
Number of positions for labware	7
Maximum number of wells per deck position	96
Maximum volume dispensed per operation	1000 µL
Minimum volume dispensed during dilution or reagent operations	5 µL
Minimum volume dispensed into FlowCam for analysis	200 µL
CV of aspiration/dispensing accuracy	± 0.5%
Pipette format	Disposable, Tecan® style tips
Environmental (particulate) control	Positive pressure HEPA filtration
Sterilization	UV, programmable exposure time
Mechanical orbital method	100 -2000 RPM clockwise
Sample conditioning	Heating/cooling 2-90°C
Mixing	Aspiration/dispensing method
Multiple assays/workflows supported	Yes
Operation pause and resume	Yes
CFR 21 Compliant	Yes
Workspace illumination	User controlled white LED
Size	Height: 49 in. (124.5 cm), Width: 30 in. (76.2 cm), Depth: 25 in. (63.5 cm)
Minimum bench space required	Height: 55 in. (140 cm), Width: 60 in. (153 cm), Depth: 30 in (77 cm)
Weight	190 lb (86.7 kg)
Voltage	110-220
Power	700 watts, including FlowCam
Operating temperature	Operating: 5-40° C, Humidity 20-80% RH
Storage temperature	Storage: -20-60° C, Humidity 20-95% RH