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mosquito®LV

make high throughput assay miniaturization simple

mosquito® facts&figures

Globally utilized in 1000s of labs

Trusted in pharma, biotech & academia

Established **2003**

True Positive Displacement
Accurate low-volume transfers,regardless of viscosity

Performs at a fraction of the volume
Nanolitre Precision

High Speed pipetting and spotting

Unique liquid handling technology

product benefits

- **Transfer accurately low and high viscosity liquids** including DMSO, master mixes, ethanol, plasma and slurries, thanks to true positive displacement technology
- **Increase throughput and reduce experimental costs** by miniaturizing your assays in high density plates
- **Ensure sample and assay integrity** with disposable low-cost pipettes
- **Conserve your starting material and reduce waste** with dead volumes as low as 0.3 µL
- **Quickly implement protocols or develop new methods** with intuitive hardware, UI and unlimited free software licenses proven in multi-user labs
- **Save laboratory space** with a densely packed spool with up to 36,000 tips
- **Extend capabilities and further streamline workflows** by integrating mosquito with robotic plate handlers, stackers, bulk dispensers and liquid handlers, and LIMS

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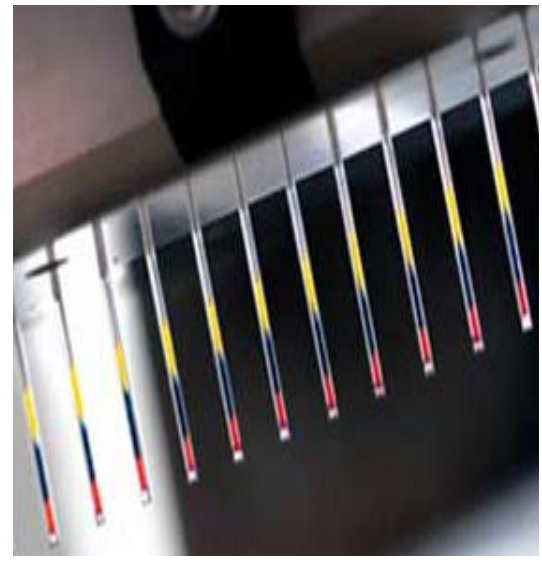
sptlabtech

mosquito® LV

applications

Screening	• Plate reformatting and replication (96-, 384- and 1,536-well plates) • Preparation of assay-ready plates for compound screening • Serial dilutions of compounds
Medicinal and organic chemistry	• Screening and optimization of reaction conditions • Exploration of chemical space • Direct-to-biology assays • Lead optimization
Molecular biology	• PCR and qPCR setups • Single-cell RNA- and DNA-seq, multiomics • DNA and RNA quantification • High-throughput proteomics (Olink Explore assays, mass spec plate setup)
Synthetic biology	• Cloning • DNA assembly
Structural biology	• Hanging and sitting drop • Additive screening • Microseeding • Microbatch • Bicelles



technical specifications

Pipetting range	25 nL – 1.2 µL	**Deck variants**	2 or 5 plate position deck
Pipetting technology	true positive displacement agnostic to liquid viscosity	**Pipetting channels**	8 or 16 (depending on the spool installed)
Volumetric performance	accuracy within 5 % of target volume; precision with average of 3 % CVs throughout the volume range	**Supported SBS formats**	96-, 384- and 1,536-well skirted plates up to 19 mm in height
Dead volumes	as low as 0.3 µL	**Throughput**	2 min/96-well plate copy, 3 min/384-well copy, 5 min/4 x 384-well plate stamp out
Consumables	**9 mm spool** with 26,000 disposable, non-sterile or gamma-irradiated tips; **4.5 mm spool** with 36,000 disposable, non-sterile or gamma-irradiated tips	**Accessories**	Precise Humidity Chamber, Passive Protective Chamber, spool cover, barcode readers, PCR clamps
Laboratory temperature working range	18°C* - 28°C	**Laboratory humidity working range**	30% - 60% RH
Dimensions (W x D x H)	**mm:** 390 (790 '5-plate deck') x 470 x 690; **inches:** 15.5 (17.3 '5-plate deck') x 18.5 x 27	**Weight**	**2-plate deck:** 27 kg **5-plate deck:** 42 kg

*mosquito LV able to run at 4°C however the instrument and laptop must stay switched on