firefly®

innovative, compact all-in-one liquid handling

accelerate your genomic research by streamlining your NGS workflows

- **All-in-one**
  firefly integrates the power of multiple instruments by combining technologies for pipetting, dispensing, incubating and shaking.

- **Compact footprint**
  firefly's compact, benchtop design makes intellegent use of vertical space, allowing you to perform more whilst saving precious laboratory footprint.

- **Peer-to-peer**
  firefly strengthens collboration and accelerates innovation through its first-in-class cloud-based network, enabling instant sharing of custom protocols and swift access to validated tools.

- **Powerful, intuitive software**
  Setting a new standard in liquid handling software, firefly's visual interface simplifies protocol development and execution, putting you in control of your workflows without the need for complex programming.

introducing firefly®+

maximize walkaway time with end-to-end hands-free NGS library prep

Expand firefly's capabilities with an on-deck thermocycler and additional labware capacity, all while maintaining its signature compact design and user-friendly operation.
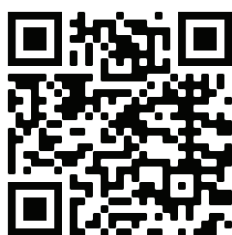
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firefly®
technical specifications

Instrument variants	firefly 3 and firefly 6	**Pipetting module**	384 pipetting core capable of loading 384, 96 or columns of 8 (96 format) or 16 (384 format)
Pipetting range and performance	<3%* cv at 1 µL and above; +/- 2%* error at 1 µL and above using aqueous reagents and specific microplates	**Particle sizes**	Less than 0.032" diameter to prevent tip blockage
Strip tips 384 format	125 µL 125-016-EZ-NS/S/FS 50 µL 050-016-EZ-NS/S/F	**Strip tips 96 format**	125 µL 125-008-EZ-NS/S/FS 50 µL 050-008-EZ-NS/S/FS
Gripper module	Compatible with most SBS/ANSI labware	**Dispense module**	Positive displacement non-contact dispensing 3 or 6 syringes
Dispense volume range	200 nL to 4 mL	**Bulk dispense speed**	< 20 s* per 96-well plate < 40 s* per 384-well plate *using 6 syringes
Dead volume	30 µL or 200 µL recoverable dead volume depending on reservoir type	**Reservoir options**	Standard and low dead volume disposable troughs
Primary SBS/ANSI plate formats	96, 384 and 1536* well labware including deep well blocks and 96 format tubes up to 45 mm in height. (*1536 is compatible with dispensing module and a limited range of pipetting options)	**Optional accessories**	Microplate cooler/heater block Microplate shaker Dispense module reagent cooler/heater
Dimensions (W x D x H)	660 mm x 560 mm x 780 mm	**Weight**	100 kg (220 lbs)

discover how your lab can benefit from firefly

if you have any more questions, get in touch
marketing@sptlabtech.com

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