



ttp labtech



dragonfly[®]

screen optimisation –
optimised

the perfect companion
for **mosquito[®]**



 **ttp labtech**
natural innovators

screen optimisation – optimised

TTP Labtech's **dragonfly**[®] is a liquid handler for simple, fast and accurate crystal screen optimisation. The instrument is easy to set up and operate, so new users are proficient in less than 10 minutes.

dragonfly provides the freedom to use any liquid type without the need for liquid classification. Each disposable pipette works independently to dispense any volume, non-contact, into any well with no cross-contamination, eliminating the need for tip washing. Screen preparation is quick, and a 96-well optimisation plate can be dispensed in less than 5 minutes.

the perfect companion for mosquito[®]

dragonfly is the ideal system to complement TTP Labtech's **mosquito** in the protein crystallisation workflow.

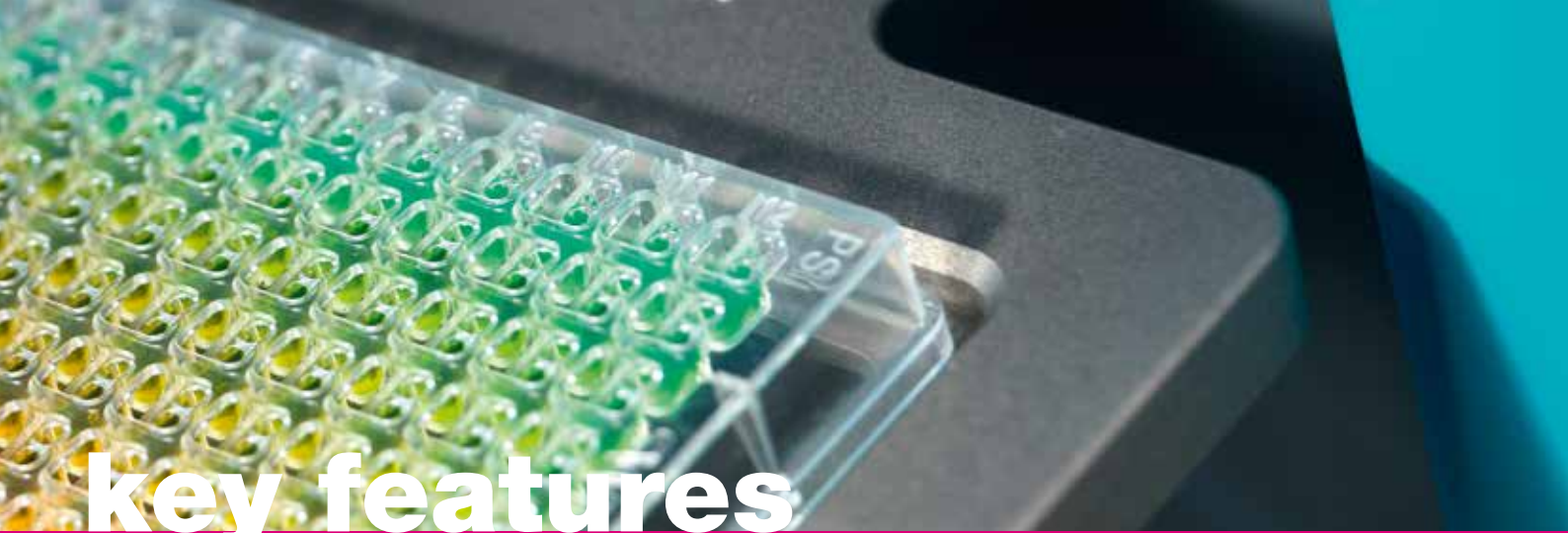
The **dragonfly screen designer** software makes it easy for users to design and optimise the set of conditions to grow better diffracting crystals. It is supplied

with each instrument and is an easy-to-use, stand-alone application that enables the user to design optimisation screens remotely on a desk PC or directly on the **dragonfly** instrument interface. The **dragonfly screen designer** can be used without restriction on the number of users, so everyone in the lab can have unlimited access without additional ongoing cost.



“The effectiveness of dragonfly for preparing crystallisation conditions into 96-well plates has been demonstrated, with efficient optimisation screens prepared three times faster than classic liquid handling technology.”

Fabrice Gorrec,
Crystallisation Automation
Scientist, MRC-LMB,
Cambridge, UK



key features

dragonfly's positive displacement technology ensures highly accurate dispensing, from 0.5 μ L up to 4 mL, across a wide range of viscosities. Its rapid plate preparation is uniquely combined with non-contact dispensing to ensure zero cross-contamination. Dispense resolution is 0.1 μ L, allowing very fine gradients to be created.

benefits

- easy to use
- accurate dispensing of all types of liquids regardless of viscosity
- dispense any volume from 0.5 μ L upwards, into any well, from any syringe
- better than 5% CVs at 1 μ L
- zero cross-contamination
- positive displacement, non-contact dispensing
- no chance of blocking or clogging
- low dead volume aspiration
- choice of 5 or 10 dispensing heads
- compatible with 15-, 24-, 48-, 96- and 384-well SBS plate formats
- small benchtop footprint

- easy creation of complex optimisation experiments

applications

- screen optimisation set-ups for protein crystallisation
- biological assay development
- formulation development

specifications

volume range	0.5 μ L - 4 mL
dispense resolution	0.1 μ L
no. of dispensing heads	5 or 10
plate format	15, 24, 48, 96, 384
dead volume	200 μ L
minimum accessible volume	0.5 mL
reservoir capacity	10 mL
accessories	MX one in-well mixer
throughput	4-6 ingredients in 96-well plate in 4-8 mins, irrespective of viscosity
dimensions (w x d x h)	575 x 600 x 645 mm (23 x 24 x 25 inches)
services	110/220 V single phase 50/60 Hz
weight	38 kg (5-head version) / 50 kg (10-head version)

dragonfly optimisation screen designer software

Our license-free software supports multi-user labs by giving them the freedom to design optimisation screens at their desk and run the experiment on dragonfly.

UK Patent Application Number 1213300.5

about TTP Labtech

TTP Labtech has firmly established itself as a global developer and manufacturer of high quality, robust and innovative automated laboratory equipment for both the academic and industrial sectors of pharmaceutical and biotech research.

supporting the crystallography community

TTP Labtech has played a key role in the crystallography community over the last 10 years. During this time **mosquito** systems have improved the accuracy, reproducibility and throughput of protein crystallisation screening in hundreds of labs around the world. **mosquito** reduces labor intensive plate preparation for screening, optimisation and scale-up while also eliminating manual pipetting errors, which is essential to experimental reproducibility. TTP Labtech's continued

innovation and commitment to the crystallography community is demonstrated by **dragonfly**, the perfect companion for **mosquito**.

quality assured

TTP Labtech instruments are developed and manufactured to the highest engineering and design standards. The combination of cutting-edge innovation and precision manufacturing ensures accurate results in the lab, every time.

service excellence

TTP Labtech provides unparalleled technical and application support. We pride ourselves on the personal relationships that our dedicated team of experts build with our customers.

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