



Douglas Instruments

Success in protein crystallization

For more information:

Request a demonstration
for your lab

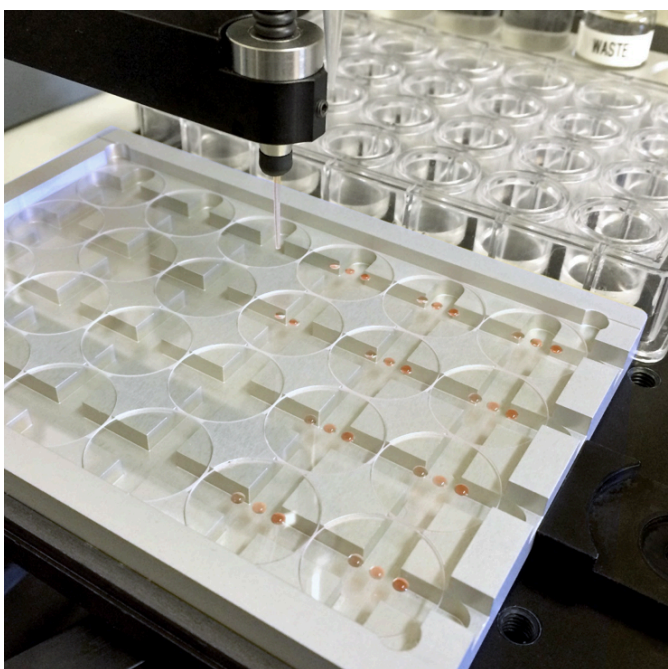
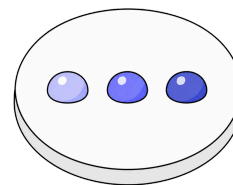
info@douglas.co.uk

Dear Crystallographer

Improve your crystallization workflow with automated hanging drop!

Oryx robots support **hanging-drop** vapor diffusion with fast, accurate dispensing – from small screening drops to larger optimization drops. **Seed stock**, additives, or ligands can be added directly to the drop at volumes as low as 5 nL.

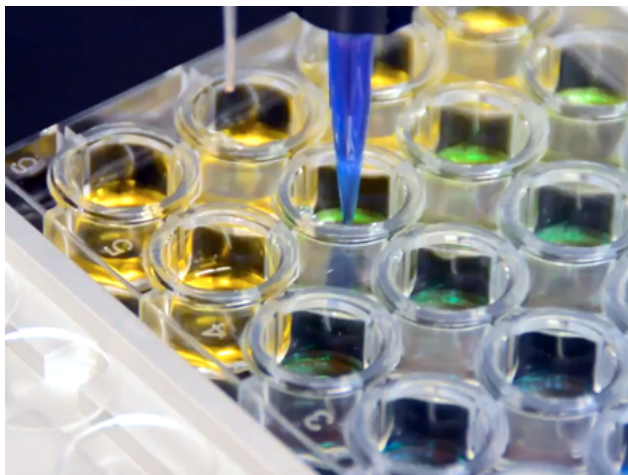
- Up to 5 drops per coverslide.
- 22 mm, 18 mm and 12 mm coverslides supported (22 mm shown below).
- Drop volumes from 100+100 nL to 8+8 μ L.
- EasyXtal lids supported (shown in banner image above).
- Film seals can be used.
- Protein-to-condition ratios can be varied in each drop.



Protein Volume [μ l]	<input type="text" value="0.60"/>
Seed stock Volume [μ l]	<input type="text" value="0.05"/>
Screen Volume [μ l]	<input type="text" value="0.35"/>
Droplet Position	
Protein Volume [μ l]	<input type="text" value="0.50"/>
Seed stock Volume [μ l]	<input type="text" value="0.05"/>
Screen Volume [μ l]	<input type="text" value="0.45"/>
Droplet Position	
Protein Volume [μ l]	<input type="text" value="0.40"/>
Seed stock Volume [μ l]	<input type="text" value="0.05"/>
Screen Volume [μ l]	<input type="text" value="0.55"/>
Droplet Position	

Seed stock, additives and ligands can be added directly to the drop, with dispensing volumes down to 5 nL. This makes it straightforward to combine hanging-drop experiments with additive screening, microseeding or [seed stock optimization](#).

With Oryx8, reservoir wells can also be [filled automatically](#) for optimization experiments using up to six ingredients, with typical total reservoir volumes from 25 to 500 μL .



[Phase diagram](#) experiments can also be dispensed to hanging-drop plates – improve your initial crystallization hits and identify precisely where the metastable zone sits for your crystallization condition. For hanging-drop vapor diffusion phase diagram experiments, a balanced reservoir is dispensed to prevent evaporation from the drop.

Get a hanging-drop demo for your lab!

Meetings, Conferences and Workshops

Visit our booth for the latest on our new experiment scripts for phase diagram optimization and other developments.

Also pick up a free toolkit for [rMMS microseeding](#) from our booth!

[AFC 2026, Lille, France](#)

30 June – 3 July 2026

[IUCr 2026, Calgary, Canada](#)

11 August – 19 August 2026

[ISBC 2026, Granada, Spain](#)

4 October – 9 October 2026

We look forward to seeing you there!

Best regards,

Douglas Instruments
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