

Gryphon, Crystal Gryphon, Gryphon LCP and Crystal Gryphon LCP

Modular Liquid Handling Systems



Crystal Gryphon



Crystal Gryphon LCP

	Gryphon	Gryphon LCP	Crystal Gryphon	Crystal Gryphon LCP
LCP Dispenser	Upgradeable	✓	Upgradeable	✓
Nano Dispenser	Upgradeable	Upgradeable	✓	✓
XY Stage	✓	✓	✓	✓
Wash Module	✓	✓	✓	✓
96 Head: 100 µl	✓	✓	✓	✓
24 Head: 100, 250 µl	Optional	Optional	Optional	Optional
348 Head: 100 µl	Optional	Optional	Optional	Optional
96 Head: 250, 500, 1000 µl	Optional	Optional	Optional	Optional

“Gryphon” general features:

- No disposables, cutting operating costs
- The “All-In-One” Microdispenser enables screen and protein drop-setting in one protocol
- Modular design allows for custom set-ups
- Set up sitting and hanging drop vapour diffusion crystallization experiments
- Set-up batch crystallization drops (under oil)
- Combines individual precipitant and protein solutions into crystallization trial wells
- X-Y stage with two plate positions and one wash station
- Low maintenance

96 Syringe Head*:

- 96 flexible Nitinol needles (memory metal)
- Dispensing accurate 100 nl to 100 µl volume with a CV of less than 5 %
- Aspiration from different deep well blocks (e. g. 1 ml and 2 ml)
- Aspiration from reservoir wells into crystallization wells of one crystallization plate
- 96 head is suitable for further volume options such as 250 µl, 500 µl or 1000 µl
- For dispensing buffers and additives

*= 24 Syringe Head and 384 Syringe Head are further options

Optional 24 syringe head:

- Set-up of optimization plates
- Suitable for work with deep-well, 24- and 48-well plates

Compatibility with Plates:

- Suitable for work with deep well, 96-, 384- and 1536-well plates
- Compatible with most crystallization plates with up to 5 crystallization wells and one reservoir well
- Common plates from several companies will be included in the software (ARI Intelli-Plates, Greiner, Swissci MRC, Corning, Molecular Dimension)
- Further plate definitions can be added in the software

Nano Protein Dispense Head (optional):

- Non-contact nano-dispenser for dispensing proteins
- Dispenses 50 nl up to 100 µl with a CV of less than 5 % (1-, 2- or 3-channels possible)
- Two options to aspirate/dispense: Air backed and liquid backed
- Sample recovery possible to minimize total consumption of protein solutions
- Suitable for work with 24-, 48-, 96-, 384- and 1536-well plates

LCP (Lipidic Cubic Phase) module (optional):

- Seeding and for highly viscous samples
- Syringe based lipidic cubic phase, bicelle dispenser
- Lipidic sponge-phase screen for membrane proteins
- Integrated LCP mixing station
- Dispensing 25 nl of viscous solutions with a CV < 5%
- Quick change syringe design makes loading the syringe easy
- Self-aligning syringe needle eliminates the need for constant calibration
- Aspirate from 0.2 ml tubes with an optionally added longer needle
- 8 tube positions for seeding applications
- 96-well sandwich plate ready to seal in less than 2 minutes

Software:

- “Easy-to-learn” and “easy-to-use” graphical interface
- Drag-and-drop protocol creation and real-time protocol validation
- Windows-based software
- Plates can be easily selected from the plate library, or new plates can be quickly defined

Specifications:

- Dispense volumes: 96 Head: 100 nl to 100 µl
 Nano: 50 nl to 100 µl
 LCP: 25 nl to 2 µl
- Size: Base (w x h x d): 59 cm x 51 cm x 59 cm, 31 kg
 Wash (w x h x d): 17 cm x 33 cm x 36 cm, 2.5 kg
 Nano (w x h x d): 15 cm x 24 cm x 41 cm, 8.4 kg
- Software: Windows 10
- Prices: Upon request