

Gryphon

Liquid Handling System

- High Throughput Screening
- Genomic Solutions
- Protein Crystallography

The Gryphon is a small modular dispenser. Interchangeable heads, X-Y stage, and optionally a modular nano dispensing syringe and/or a LCP (Lipidic Cubic Phase) component can be added at any time, allowing a customized instrument composition.

The modular Gryphon system is perfect to meet the requirements of today's laboratories. The Gryphon accomplishes fast, efficient liquid handling by moving air-tight seals inside 96 or optionally 24 or 384 precision glass syringes arrayed in microplate spacing. The innovative design of the Gryphon dispensing head allows users to easily remove the entire syringe head for servicing or for changing to a different syringe style. An operator can change syringe heads in minutes, without the use of any tool.

The removable head design enables users to optimize the configuration of the Gryphon for a specific application by installing the proper dispensing head. The 96-syringe head is available in 100, 250, 500 or 1000 µl with flexible needles - or choose the 24-head or 384-head option.

By additionally equipping the Gryphon with the **new** modular **LCP (Lipidic Cubic Phase)** syringe the mixing and crystallization of membrane proteins is facilitated. This syringe allows the dispensing of up to 25 nl of viscous solutions with a CV of < 5% in less than 90 seconds. In addition to this, a modular non-contact nano-dispensing needle is available allowing the precise dispensing of 50 nl up to 100 µl. Both modular components can be added in combination or as single components to the Gryphon base unit.

Easy-to-learn and easy-to-use graphical interface features drag-and-drop protocol creation and real time protocol validation. The Windows-based software allows for user control of all parameters to optimize sample dispensing. Plates can be easily selected from the plate library, or new plates can be quickly defined.



Crystal Gryphon LCP

Gryphon features:

- Modular design allows for custom set ups to meet needs of application.
- With different options, set up LCP, sponge phase, bicelle, sitting drop, hanging drop and micro batch assays all on one compact system.
- 96-heads with flexible needles with 100, 250, 500 or 1000 µl volume options.
- 24-head and 384-head options are available.
- 2 position X-Y stage.
- Integrated wash system.
- Easy to use drag-and-drop software for use with stage.
- Small space-saving footprint (h x w x d): 20 x 23 x 23 inches (51 x 59 x 59 cm).

Optional Modular components:

- **New!** LCP (Lipidic Cubic Phase) syringe
- Non-contact 1-channel dispenser

Gryphon specifications:

- Dispense volumes:

96 Heads:	100 nl to 1000 µl
Nano:	50 nl to 100 µl
LCP	25 nl LCP at less than 5 % CV in < 90 secs.

- Size:

Base (h x w x d):	20 (51) x 23 (59) x 23 (59) inches (cm) 68 lbs, 31 kg
Wash (h x w x d):	13 (33) x 6,5 (17) x 14 (36) inches (cm) 5,5 lbs, 2,5 kg
Nano (h x w x d):	9,5 (24) x 6 (15) x 16 (41) inches (cm) 18,5 lbs, 8,4 kg

- Electrical:

Base:	120/240 Vac, 3 A, 50/60 Hz
Wash:	120/240 Vac, 2 A, 50/60 Hz
Nano:	120/240 Vac, 1,5 A, 50/60 Hz

- Software:

Windows dotNet



Please note also available are:

The “**Phoenix**” - the bigger version of the “Gryphon” for high-throughput liquid-handling with 9 plate positions. Optional non-contact 1-, 2-, 3- or 4-channel dispenser.

The “**Cobra 148**” with 2 plate positions and 1, 4, or 8-channel dispenser.

The refurbished “**Hydra**” - for high-speed aspirating and dispensing of finite volumes.

Further details upon request.