

Honeybee 961

Protein Crystallization System.



Key Benefits

- Cost effective protein crystallization
- Simple experiment set-up
- Elimination of carry-over
- Conservation of valuable protein
- Accurate and precise transfer of viscous screening solutions
- Minimization of evaporation

The Honeybee 961 from Genomic Solutions is a **high speed bench-top system for the miniaturization of protein crystallization experiments**. The simple system set-up supports all commercial plate formats and is ideal for labs with multiple users. The Honeybee 961 uses **new software** specifically designed for the easy programming of a wide range of protocols for sitting drop crystallization experiments.

Low volume (nL) dispensing of the precipitant solutions is accomplished using a market-proven 96-position syringe dispenser while protein is added via a separate synQUAD™ channel. The Honeybee 961 utilizes proprietary Cartesian synQUAD™ technology from Genomic Solutions to provide **precise and accurate non-contact dispensing of low volumes and conservation of valuable protein sample**. The Honeybee 961 maintains precision even with more challenging solutions such as detergents and more viscous solutions e.g. 30% PEG.

Design Specifications

Dimensions	28.5" W x 16" D x 21.1" H (0.73 m x 0.41 m x 0.51 m)
Power Requirement	110 - 240VAC, 50-60 Hz (auto-switching)
Weight	34.2 kg

**Key Features****Multi-functional system specifically designed for lower throughput users**

The Honeybee 961 with its small footprint is ideal for smaller labs where space is a premium. The capability to fill reservoirs as well as the shelves in any crystallization plate makes this 2 in 1 system a cost effective choice for lower throughput researchers.

User friendly software

Windows 2000, XP based OS with Honeybee GUI.

New software designed for simple set up of multiple sitting drop crystallization experiments.

Efficient tip washing

Patented non-contact dispensing technology eliminates carry over by efficient tip washing and reduces loss of valuable protein samples by minimizing waste.

synQUAD™ technology to reduce protein loss

Protein is added via a single channel reducing loss of valuable protein samples due to aliquoting. Minimum aspirate volumes ensure effective use of even the smallest protein samples.

Honeybee 961 for precise and accurate dispensing

synQUAD™ dispensers couple high speed microsolenoid valves for accurate dispensing of protein volumes as low as 50 nL.

Dispense Precision	synQUAD™ +1 channel < 10% CV's with deionised water at 0.05 µL to 1.0 µL
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Dispense Volume	synQUAD™ +1 channel 0.05 µL to 1.0 µL
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High resolution syringe pumps ensure precise and accurate dispensing of precipitant solutions while accuracy of the x-y axis ensures positioning of the protein drop on top of the precipitant. Fluidic inertia from the synQUAD channel ensures efficient reagent mixing.

Dispense Precision	96 channel head < 10% CV's with deionised water at 0.1 µL to 100 µL
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Dispense Volume	96 channel head 0.1 µL to 100 µL
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Rapid Plate Preparation

The Honeybee 961 takes only 2 minutes to complete a 96 well plate thereby minimizing the risk of evaporation.

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The Genomic Solutions Family

