



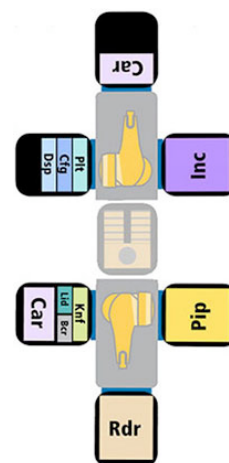
## Applications: Secondary Screening

Automation of secondary screening assays is vital to ensure that hits generated from high throughput screening campaigns are reliably translated into leads. Yet, finite budgets, demands to operate in smaller lab spaces, and a unique multi-user environment can make it difficult for secondary screening groups to implement effective automation solutions.

### Dual NanoCell

#### Miniaturized FLIPR Assays

2 x <b>Rbt</b> Denso Robot	1 x <b>Plt</b> Automated Plate Washer
6 x <b>Mcd</b> MicroDock	1 x <b>Cfg</b> Automated Plate Centrifuge
1 x <b>Rdr</b> FLIPR Tetra	1 x <b>Dsp</b> Single Reagent Dispenser
1 x <b>Pip</b> Acoustic Dispensing Device	1 x <b>Lid</b> HighRes Lid Valet
1 x <b>Inc</b> HighRes SteriStore D	1 x <b>Bcr</b> Barcode Reader
2 x <b>Car</b> HighRes NanoServe	1 x Connector



#### Overview

This system is a dual HighRes NanoCell configured for FLIPR assays. This system would typically be used to run low volume calcium mobilisation assays, for identifying compounds with activity against drug discovery targets, such as GPCRs and ion channels. The capabilities include plate washing and low volume dispensing for removal of cell medium and addition of FLIPR dye, a HighRes SteriStore for incubating cell plates, and an acoustic dispenser for direct addition of compounds in DMSO. The workcell is compatible with all common FLIPR assays, including agonist and antagonist formats.

#### NanoCell Key Advantages

**Flexible** - Plug in different carts to build the best system for the next experiment. For example, swap out the FLIPR for a multimode reader

**Economical** - Minimise duplicate equipment purchases - undock the FLIPR for method writing and maintenance, then plug it straight back into the system for automated use

**Friendly** - Benefit from the intuitive interface of Cellario, HighRes' scheduling software, making the system easy to use for non-frequent users

**Efficient** - To get the most out of the system, use Cellario to schedule additional protocols (e.g. cell plating) that can run during overnight periods



## 6-Sided MicroStar

### Label Free Screening

1 x **Rbt** Stäubli Robot

4 x **Mcd** MicroDock

1 x **Pip** Liquid Handler

1 x **Inc** HighRes SteriStore D

2 x **Dsp** Single Reagent Dispenser

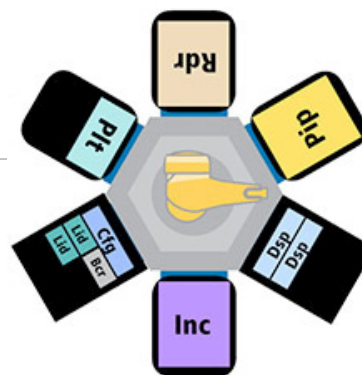
1 x **Plt** Automated Plate Washer

1 x **Cfg** Automated Plate Centrifuge

2 x **Lid** HighRes Lid Valet

1 x **Bcr** Barcode Reader

1 x **Rdr** Label Free Reader



### Overview

This system is a 6-sided HighRes MicroStar configured for label free screening. This system would typically be used for processing both biochemical and cell-based label free screens. The capabilities include an automated liquid handler for transfer of compounds to assay plates, a HighRes SteriStore for cell plate incubation, and reagent dispensing and plate washing for preparing assay plates with the relevant buffers and cells. This workcell is compatible with all label-free assay technologies and readers (e.g., MDS Cell Key) that are currently on the market.

### MicroStar Key Advantages

**Flexible** - Use this system for other types of experiment formats. For example, undock the label free reader and exchange it for a standard multimode reader to support standard labelled biochemical and cell assays.

**Accessible** - Get better access to your devices. The Liquid Handler is placed on a device turntable that can be rotated 180 degrees for safe use of the instrument (even during a run) for scheduled QC checks and method development.

**Sustainable** - Adapt to future developments in label free assays and reading technology by purchasing extra MicroCarts for novel instrumentation. These can then be docked into the existing platform.