Cell Painting is a powerful phenotypic high-content screening approach which combines cell and computational biology to unravel cells’ responses when subjected to perturbagens. **explorer™ G3 Cell Painting workstation** provides a an integrated, turn-key solution to automate cell painting assays using our PhenoVue™ Cell Painting Kits with image acquisition on our Opera Phenix® Plus high content imager. Proposed workstation has been configured to automate staining and image acquisition with up to 42x 384-well cell plates to be processed without user intervention.

**COMPONENTS**

1. Opera Phenix® Plus Instrument
2. plate::handler™ FLEX collaborative arm
3. 2x 21-position random access racks
4. Agilent Technologies Centrifuge (optional item)
5. BioTek® 405™ LSU Microplate Washer
6. BioTek® MultiFlo™ FX Multimode dispenser
7. Thermo Fisher® Scientific C2 Cell Culture incubator
8. Enclosure with HEPA filter

**EXPERIMENTAL WORKFLOW**

**OFFLINE STEPS**

For research use only. Not for use in diagnostic procedures.

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### explorer™ G3 workstation

**DETAILED LAYOUT**

**TOP DECK**
- BioTek® MultiFlo™ Dispenser
- plate::handler™ FLEX Collaborative robotic arm
- Thermo Cytomat™ C2 Incubator

**LOWER DECK**
- BioTek® 405™ LSUVS Plate Washer
- RT plate storage
- Centrifuge (optional item)

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### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Platform</th>
<th>explorer™ G3 workstation IX15 with enclosure and HEPA Fan Filter unit</th>
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<tbody>
<tr>
<td>Plate Handling</td>
<td>plate::handler™ FLEX 750EXT collaborative robotic arm</td>
</tr>
<tr>
<td>Image Acquisition</td>
<td>Opera Phenix® Plus Instrument</td>
</tr>
</tbody>
</table>
| Labware Storage/Incubation | - 2x 21-position random access plate shelves for RT plate storage and incubation (plates to be covered with black lids)  
  - Thermo Fisher® Scientific Cytomat™ C2 Cell Culture Incubator holding up to 42x 384w plates |
| Media Removal & Plate Washing | BioTek® 405™ LSUVS Microplate Washer optimised for cell washing with 4 buffer switching option |
| Addition of staining solution and PFA | BioTek® MultiFlo™ FX Multimode dispenser configured as 3 reagent dispenser (2 syringe pump, 1x peripump) |
| Centrifugation | Agilent® Technologies Centrifuge (optional item) |
| Scheduling Software | plate::works® software V6.25 |
| Control PC / Network | 19" Rack mounted industrial PC running Windows 10 Enterprise LTSB, 16-port GBit Network Switch and Hardware Firewall |
| Electrics | 1-phase 230V/50 Hz (110V/60Hz) with central mains switch |
| Dimensions | 220 cm x 230cm x 250cm |

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>explorer™ G3 Cell Painting workstation</td>
<td>Please contact your local PerkinElmer Sales Representative</td>
</tr>
</tbody>
</table>

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