

# HunterLab Introduces

## Enhanced Analytical Cell Holders and Base Assembly



*Cell Holder Base with Cell Holder for Macro Cells*

### Enhanced Cell Holder Base with Precision Cell Holders

HunterLab introduces a new and improved Analytical Cell Holder replacing the Semi-Micro Cell Holder (L02-1012-202).

These newly designed cell holders and base will improve repeatability and accuracy for customers measuring small volumes of samples in plastic or glass macro, semi-micro, and ultra-micro cells. The new array of customized cell holders are designed to precisely fit each type of supported cell. The interchangeable cell holders allow the user to quickly switch between custom cells without the need for tools or removal of the Cell Holder Base. Locating pins and magnetic interface ensure accurate and repeatable positioning.

### Supported Applications

Solutions and liquids are used widely in the pharmaceutical industry. Color control is critical to this industry. Some liquids are very expensive for the customer, so a very small amount of product may be available for color measurement. Our precision cell holders are the perfect solution for these customers.

### Choosing the right configuration

The Cell Holder Base Assembly is the foundation for each configuration. The user should then match the cell type and cell dimensions with one of the available Precision Cell Holders. As each Cell Holder is made to exacting dimensional tolerance to ensure performance repeatability, the user should ensure that the desired cell does not have dimensions that exceed the Cell Holder specifications. (For guidance in selecting correct cell and cell holder combination, see table below.)



*Cell Holder Base Assembly (D02-1016-956)*

**Items and descriptions can be found below**

**D02-1016-956 Cell Holder Base Assembly**

This Cell Holder Base Assembly with one or more precision cell holders (ordered separately) centers macro, semi-micro, and ultra-micro, as well as, other precision analytical cell holders in the transmission compartment of HunterLab sphere instruments. This assembly ensures repeatable transmission color measurements of very small volumes of clear liquids. Select one or more of the available precision cell holders by matching cell holder specifications with the end-users desired glass or plastic analytical cells. Analytical cells are purchased separately by the customer.

(Works with Precision Cell Holders: D02-1016-912, D02-1016-913, D02-1017-048, D02-1017-050, D02-1017-051)

(Used on: CQXE CQXT USPRO USVIS)



*Typical Semi-Micro Cell (D02-1016-912) and Macro Cell Holder and Cells (D02-1016-913)*

#### **D02-1016-912 Precision Cell Holder for Semi-Micro Cells (Brand Plastic Cells)**

This precision cell holder positions **semi-micro** analytical plastic cells in combination with the Cell Holder Base Assembly (D02-1016-956, sold separately). This assembly provides accurate positioning for repeatable transmission color measurements. This cell holder is precisely designed to hold **semi-micro** 10mm plastic cells with outside path length dimension not exceeding 12.42 (path length) x 12.50mm (0.489 x 0.492 inches). A starter kit of three PMMA plastic cells is included with this cell holder.

Please ensure that your cell type matches the dimensional specification listed for each cell. Cells are purchased by the customer from third party suppliers. Brand cells, part number 759086D have been validated with this cell holder.  
Used on: CQXE CQXT USPRO USVIS

#### **D02-1016-913 Precision Cell Holder for Macro Cells (Brand Plastic Cells)**

This precision cell holder positions **macro** analytical plastic cells in combination with the Cell Holder Base Assembly (D02-1016-956, sold separately). This assembly provides accurate positioning for repeatable transmission color measurements. This cell holder is precisely designed to hold **macro** 10mm plastic cells with outside path length dimension not exceeding 12.32 (path length) x 12.35mm (0.484 x 0.490 inches). A starter kit of three PMMA plastic cells is included with this cell holder.

Please ensure that your cell type matches the dimensional specification listed for each cell. Additional cells are purchased by the customer from third party suppliers. Brand cells, part number 759081D have been validated with this cell holder.  
Used on: CQXE CQXT USPRO USVIS

**D02-1017-048 Precision Cell Holder for Macro Cells, (Hellma/Starna Glass Cells)**

This precision cell holder positions **macro** analytical glass cells in combination with the Cell Holder Base Assembly (D02-1016-956, sold separately). This assembly provides accurate positioning for repeatable transmission color measurements.

This cell holder is precisely designed to hold **macro** 10mm glass cells with outside path length dimension not exceeding 12.50 (path length) x 12.50mm (0.492 x 0.492 inches). Please ensure that your cell type matches the dimensional specification listed for each cell.

Cells are purchased by the customer from third party suppliers.

Hellma part number 100-10-20 and Starna part number 1-g-10 cells have been validated with this cell holder.

Used on: CQXE CQXT USPRO USVIS

**D02-1017-050 Precision Cell Holder for Semi-Micro Cells, (Hellma/Starna Glass Cells)**

This precision cell holder positions **semi-micro** analytical glass cells in combination with the Cell Holder Base Assembly (D02-1016-956, sold separately). This assembly provides accurate positioning for repeatable transmission color measurements.

This cell holder is precisely designed to hold **semi-micro** 10mm glass cells with outside path length dimension not exceeding 12.47 (path length) x 12.50mm (0.492 x 0.492 inches). Please ensure that your cell type matches the dimensional specification listed for each cell.

Cells are purchased by the customer from third party suppliers.

Hellma part number 104-10-20 and Starna part number 1-SOG-10 cells have been validated with this cell holder.

Used on: CQXE CQXT USPRO USVIS

**D02-1017-051 Precision Cell Holder for Ultra-Micro Cells, (Brand Plastic Cells)**

This precision cell holder positions **ultra-micro** analytical plastic cells in combination with the Cell Holder Base Assembly (D02-1016-956, sold separately). This assembly provides accurate positioning for repeatable transmission color measurements.

This cell holder is precisely designed to hold **ultra-micro** 10mm plastic cells with outside path length dimension not exceeding 12.50 (path length) x 12.50mm (0.492 x 0.492 inches). A starter kit of three plastic cells is included with this cell holder.

Please ensure that your cell type matches the dimensional specification listed for each cell. Additional cells are purchased by the customer from third party suppliers. Brand cells, part number 759200D have been validated with this cell holder.

Used on: CQXE CQXT USPRO USVIS

**Note: All part information and pricing may be found in the price list.**

HunterLab Cell Holder Used with Cell Holder Base (D02-1016-956)	Description	Cell Volumes (Min/Max)*	Allowable Cell Outside Dimensions (Maximum)	Tested Cells (Purchased Separately)	Compatible Cell Type
<p><b>D02-1016-912</b> Cell Holder, Semi-Micro (For use with 10 mm Plastic Cells)</p>		<p>Semi-Micro Plastic (Min- 0.6mL) (Max- 1.5mL)</p>	<p>12.42 x 12.50 mm 0.489 x 0.492 inches</p>	<p>Brand (759086D)</p>	
<p><b>D02-1016-913</b> Cell Holder, Macro (For use with 10 mm Plastic Cells)</p>		<p>Macro Plastic (Min- 2.5mL) (Max- 4.5mL)</p>	<p>12.32 x 12.35 mm 0.484 x 0.490 inches</p>	<p>Brand (759081D)</p>	
<p><b>D02-1017-051</b> Cell Holder, Ultra-Micro (For use with 10 mm Plastic Cells)</p>		<p>Ultra-Micro Plastic (Min- 0.6mL) (Max- 0.7mL)</p>	<p>12.50 x 12.50 mm 0.492 x 0.492 inches</p>	<p>Brand (759200)</p>	
<p><b>D02-1017-048</b> Cell Holder, Macro (For use with 10 mm Glass Cells)</p>		<p>Macro Glass (Min- 2.5mL) (Max- 4.5mL)</p>	<p>12.50 x 12.50 mm 0.492 x 0.492 inches</p>	<p>Hellma (100-10-20) Starna (1-G-10)</p>	
<p><b>D02-1017-050</b> Cell Holder, Semi-Micro (For use with 10 mm Glass Cells)</p>		<p>Semi-Micro Glass (Min- 0.6mL) (Max- 1.5mL)</p>	<p>12.47 x 12.50 mm 0.491 x 0.492 inches</p>	<p>Hellma (104-10-20) Starna (9-SOG-10)</p>	

\* Min – minimum sample volume needed to cover viewed area of holder.  
Max – maximum sample volume needed to fill cell.