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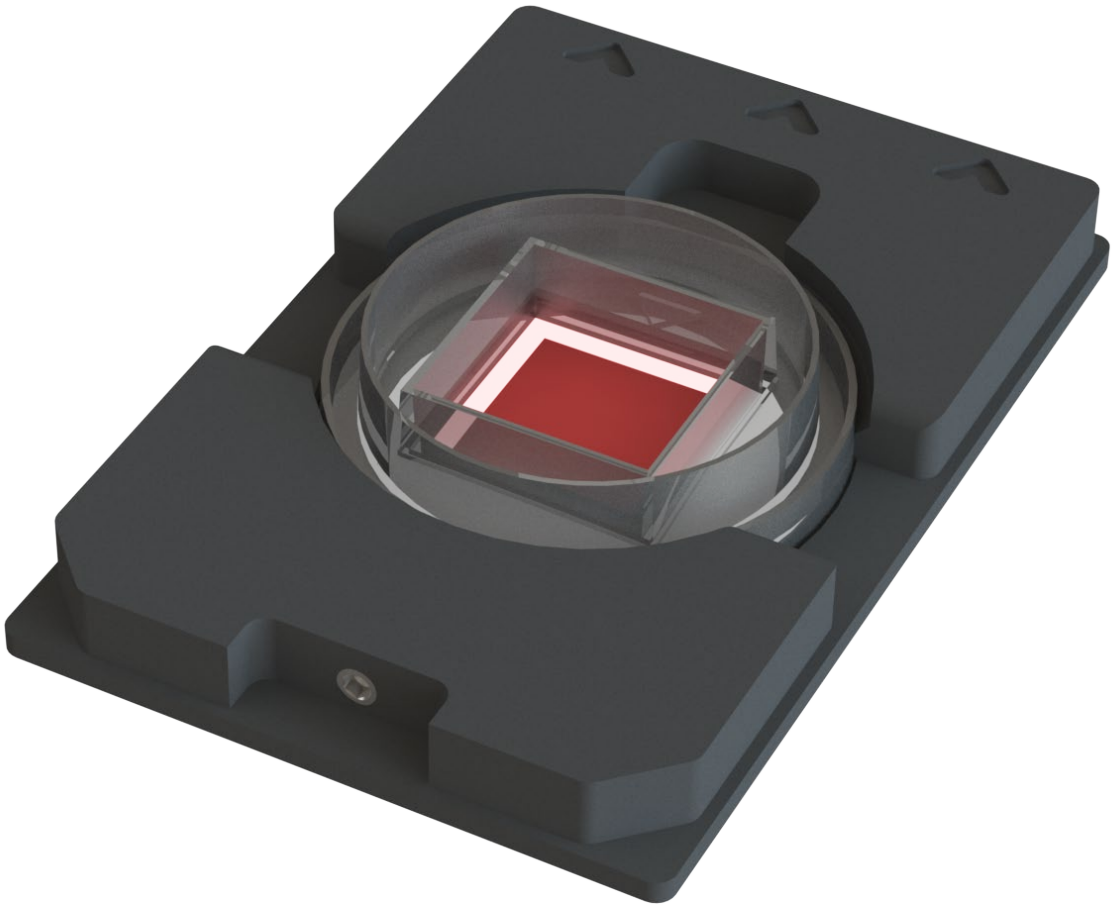


CellRaft® Array Adapter Plate

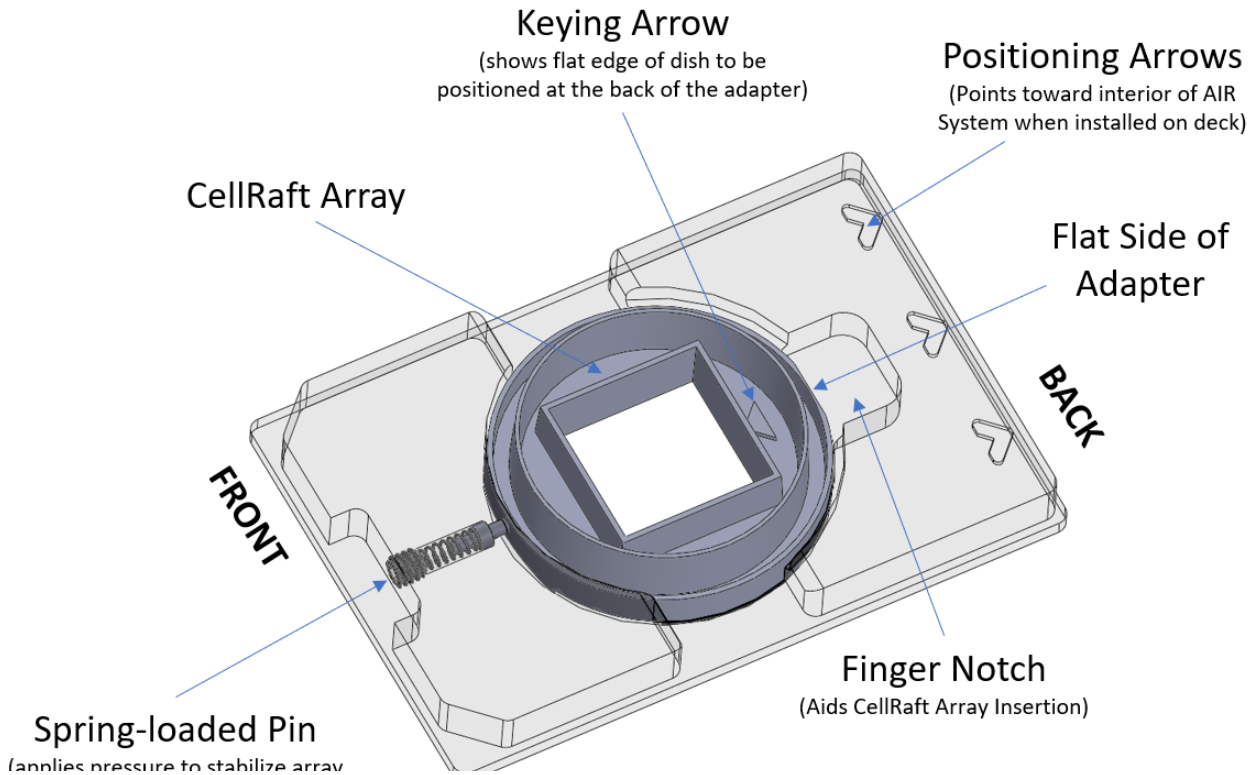
For use with 65mm-diameter CellRaft Arrays on the CellRaft AIR® System

User Instructions

1. Introduction

CellRaft Arrays with a 65-mm diameter form factor – i.e. single- and quad-reservoir arrays – are held in place on the deck of the CellRaft AIR System by the CellRaft Array Adapter Plate (**Figure 6**) included in the AIR System Accessory Kit. These instructions will describe several features of the adapter plate that have changed and provide recommendations on how to properly load the new adapter.

2. Features of the AIR System Stage Adapter Plate



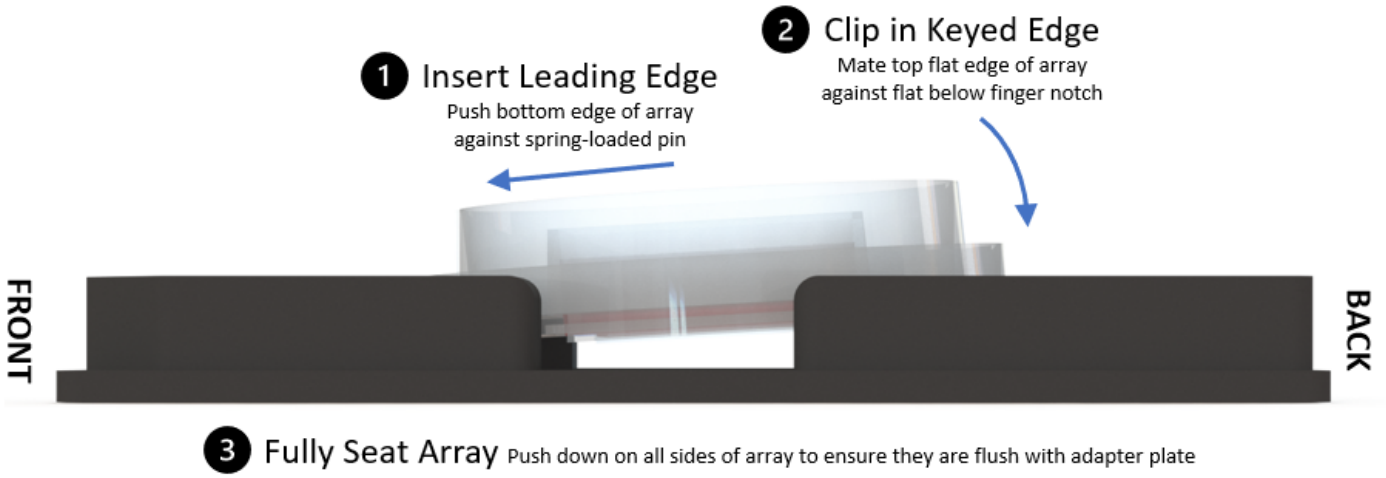
Every 65-mm CellRaft Array contains a flat section along its outer circumference, whose location is indicated by its Keying Arrow (as shown in **Figure 1**). To standardize array orientation between runs on the AIR System, the CellRaft Array Adapter Plate contains a complementary flat below its Finger Notch, so the array can only be inserted into the adapter with the two flats aligned.

A spring-loaded pin at the front of the Adapter Plate applies pressure to the array to stabilize its location – users will likely notice that the pressure supplied by the pin is stronger than in the old adapter plate design.

Channels along the side of the Adapter Plate provide locations for the user to grip the CellRaft Array as it is inserted, and a Finger Notch has been added at the top of the array to facilitate the process. Recommendations on best practices to properly load the array into the adapter plate are provided in the next section.

Positioning Arrows along the back edge of the Adapter Plate indicate the direction that the adapter should be inserted into the CellRaft AIR System during instrument loading. Loading the adapter and array backwards will prevent the AIR System from successfully calibrating the array for imaging or CellRaft isolation.

3. Loading a CellRaft Array into the Adapter Plate



To load a CellRaft Array into the Adapter Plate, it is best to grip the array with your thumb on one side, index finger along the flat next to the Keying Arrow, and remaining fingers on the opposite side. Then:

1. Insert the bottom edge of the CellRaft Array (opposite the Keying Arrow) toward the front of the Adapter Plate, depressing the spring-loaded pin with the array.
2. Lower the flat Keying Arrow side of the CellRaft Array to align with the keying flat of the Adapter Plate below the Finger Notch. The spring-loaded pin will need to be fully depressed to clip the array into place.
3. Double-check the CellRaft Array is fully seated within the Adapter Plate by putting light pressure at multiple points along the top of the array. Incomplete seating can negatively impact image quality and CellRaft isolation efficiency.

Whenever prompted by the AIR System software to load the CellRaft Array onto the instrument, it is recommended to insert the CellRaft Array into the adapter outside the instrument, then load them together onto the instrument deck. The array and adapter should always be loaded into the LEFT well of the instrument deck and always in the direction of the Positioning Arrows on the adapter.

Care should be taken to avoid spilling media or reservoir contents when positioning the adapter plate holding a CellRaft Array on the deck of the AIR™ System. Leaving the array lid on a CellRaft Array during the loading process is likely to mitigate spills.

4. Troubleshooting

For any troubleshooting or technical support questions, contact Cell Microsystems Technical Support at support@cellmicrosystems.com.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