

Quick Summary for using ScanArray Express®

1. Once the lasers have been turned on and have warmed up, insert slide and click on Configure button -> Scan protocols (slide will be automatically “loaded” completely into the scanner upon initiating a scan protocol).
2. Click on the protocol suitable for your slide (either a previous protocol you’ve made, or a protocol for your slide type (ie. Hum1.7k)). If you have not previously made a protocol, Click on “Add” and follow the following steps:
 - a. Basic Information: Give your protocol a unique name and a description. For now, set the resolution to 50 μm .
 - b. Scan area: Draw a box around the approximate area of the array.
 - c. Fluorophores: Indicate the fluorophores being used. Set the laser power and PMT settings. To start with, LP=90 and PMT=65-70 is good.
 - d. Sensitivity Calibration Areas: Usually don’t perform this calibration.
 - e. Sensitivity Calibration: Usually don’t perform this calibration.
 - f. Tools: No settings to set at this point....

If you already have a scanning protocol set up,

- open the protocol
- click on “change” to change the settings;
- change the scanning resolution to 50 μm
- check the scan area to be sure it is adequate for your slide type
- go to “Tools” and do a Quick Scan
- repeat the Quick Scan as many times as necessary, each time adjusting the laser power and PMT settings for each fluor “on-the-fly”
- once you are happy with the settings, do an “Automatic Focus Calibration” (choose to adjust the line and re-draw the line so that it goes over a row of several spots) and accept the changes made (if any) to the focal position.
- If you want, go back and do another Quick Scan
- Change the resolution back to 10 μm and close the edit portion of the protocol, then close down the protocol list box.
- Click “Custom Scan” button to acquire the high resolution scan
- File -> Save As to save the file
- File -> Close All to remove images after scanning

To turn off ScanArray Express:

- Turn off lasers
- Configure -> service features -> turn off instrument, OS (3rd box down)
- A box will appear saying the connection to the instrument has been lost
- Wait 30 seconds, then turn off the instrument (power switch on side), then the software

