LAMBDA 10-3 RING BUFFER FIRMWARE UPGRADE

Due to the popularity of the ring buffer on our Lambda DG-4 wavelength switcher, we've added a similar feature to the Lambda 10-3 firmware!
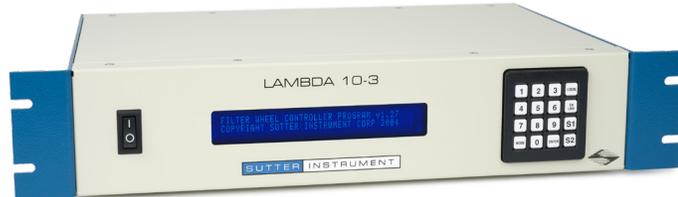
The Lambda 10-3 filter wheel and shutter controller has natively supported triggering for over 15 years. Despite the benefits, few users benefit from the triggering feature for a variety of reasons. Setting up triggering can be challenging, depending on the software package chosen to drive the microscope system. To access the full performance from the Lambda 10-3, it requires 8 digital lines for bit pattern triggering. Some microscopy software suites with advanced triggering capabilities and hundreds of digital lines, do not support triggering more than one digital line at a time. Other software suites that can trigger the filter wheels to run properly, lack the capability to move multiple filter wheels simultaneously. Without simultaneous movement, the highest speeds available with Sutter filter wheels can't be reached.

Our new firmware will allow users to select any combination of filter wheel and *Smart*Shutter® positions to create a "pre-set" in the ring buffer of the Lambda 10-3. Up to 50 pre-set combinations can be stored. Once the list of pre-sets for the experiment are configured, the ring buffer can be activated on the keypad. When the Ring Buffer is enabled, each TTL pulse received by the Lambda 10-3 will advance the wheels and shutters to their next pre-set position simultaneously. When the last pre-set in the buffer is reached, it will loop back to the beginning.

This new feature will allow nearly any microscope system to drive the Lambda 10-3 faster and more efficiently.

If you have any questions regarding this new firmware, please contact us at info@sutter.com.

LB5-W32-N31 - Sutter's new filter wheel for the Infinity path on the Nikon Ti2