

## PhotoniQ Windows Drivers Description

The drivers include four pairs of header and source code files and one additional header file for global variables used between all driver source files.

The Initialize files initialize and validate an interface with the PhotoniQ and gets the capabilities of the device for use by the Control Interface and Data Interface.

The Control Interface executes a control operation to a previously initialized PhotoniQ. Many helper functions are included to make sending control operations as easy as possible and documentation is included to explain what each command does.

The Data Interface is used to signal to the PhotoniQ to generate reports which are then parsed into events. Event data can then be written to a file. The Data Interface can also be signaled to stop generating reports based on certain conditions being met such as a specified number of triggers being read, an amount of time passing, or upon the change of a Boolean value. The contents of event data can be found in any PhotoniQ user manual.

The Close header and source file combines two separate driver functions of the LabVIEW drivers into one, dealing with both closing the connection to the PhotoniQ and also handling errors. A connection can be closed without throwing an error and should be done at the end of any program that interfaces with a PhotoniQ.