



Creating the ability to have clear visualization at all times during traditional and robotic laparoscopic surgery.



The Baton lens cleaner from C-Clear LLC is a **standalone** product that cleans a minimally invasive camera lens without removing the scope from the body cavity. Since the scope is left in the body cavity, the surgeon does not need to reorient the operative field or replace instruments every time the lens is cleaned. The camera maintains a steady field of vision while it is cleaned. Because the camera does not exit the body cavity and the field of view is maintained, the Baton is able to inherently increase safety and decrease operative time that would be wasted cleaning the lens.

The table below shows the cost of keeping the scope clean during traditional laparoscopic procedures when the scope is removed from the body cavity. Mean times were accrued from a laparoscopic surgeon with over 20 years of surgical experience. Each time the laparoscope is removed, the lens is cleaned followed by cleaning the port and then the procedure resumes. The duration of the removal, cleaning, and resumption of the procedure can vary depending on the complexity of the case and degree of lens clarity. Overall, the duration of time for each removal of the laparoscope ranges from 42.6-87.0 sec with a mean time of 61.1 seconds. From a robotic standpoint, the time to de-dock the robotic camera is longer and the operative cost would be higher. Based on the recent data from Key Surgical, a Steris subsidiary, (Lemmons, *Industry News*, 2020), one minute of operative time is equal to \$62.

Procedure	Mean # of scope cleans per case	Total time to clean (min)	OR Costs spent cleaning per case	OR Cost spent using Baton
Cholecystectomy	5.2	5.3	\$328.60	\$108.49
Hiatal Hernia Repair	11.2	11.4	\$706.80	\$233.25
Distal Pancreatectomy	15	15.3	\$948.60	\$313.04
Esophagectomy	30.5	31.1	\$1,928.20	\$636.31

The Baton decreases the time to clean the lens and does not need the laparoscope to exit the operative field (the abdomen or chest) allowing the surgeon to maintain orientation. The average time for the cleaning of the lens using a C-Clear Baton has been demonstrated in the OR to be less than 20 seconds. This cuts the cost of cleaning the scope by 2/3rds. There is no need for a scope warmer.

In addition to the clinical advantages and costs savings in operative time, the overall cost of the Baton is approximately \$30-40 dollars less expensive than other scope cleaning products.

The C-Clear system can be used in general, bariatric, single-port and robot assisted laparoscopic procedures.

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