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Description of the AutoLap command unit, model CU Ring

The AutoLap system is designed to hold and position the laparoscope during laparoscopic surgery. When the camera is in position, the AutoLap system holds it in a stable manner. When the surgeon wishes to change the camera's position, the system positions the laparoscopic camera by maneuvering the laparoscope using a joystick. The movement of the laparoscopic camera is enabled and disabled by the surgeon.

The Command Unit (CU) is a sterile disposable unit that is designed to transmit low power RF signals. The main functions of the RF signals are to enable the movement of the laparoscope to the surgeon's desired location. The CU Ring is worn by the surgeon on one of his fingers (like a normal ring) over the glove.

The surgeon uses the AutoLap Command Unit (CU Ring) to control the laparoscope.

Typical use of the CU Ring is:

Before the Laparoscopic surgery starts, the CU Ring will transmit a signal to be registered to the system. The transmitter operates at 915.9 MHz.

After the surgeon attaches the laparoscope to the AutoLap, movement of the laparoscope is enabled by the CU Ring or using the manual activation button.

The AutoLap CU Ring is a manual operated device, with software controlled functions. Once the device is triggered, a pre-programmed cycle of less than 900 μ sec transmission occurs.