

Ambu - aScope

Background

Ambu is a provider of innovative solutions to improve patient care worldwide especially in the field of airway management products including endotracheal tubes and laryngeal masks.

Difficult intubations e.g. the placement of a flexible tube into the windpipe, are supported by the use of traditional fibre scopes and laryngoscopes. This is a problem due to the requirements for sterilisation and the high capital cost of equipment.

Ambu identified an opportunity for a disposable endoscope product to assist intubations which would enhance endotracheal tube and laryngeal mask sales.

Solution

Tactiq designed and developed a very low cost miniature video camera and controller as the heart of the system and supported the development of a portable monitor.

The project required many challenges to be met such as the miniaturisation of the endoscope electronics, the colour adjustment of images and challenging product cost targets.



Tactiq was responsible for the system electronics and software architecture design plus documentation for both the monitor and disposable. Tactiq also had responsibility for the detailed design and development of the disposable endoscope software and electronics. The software was developed compliant with IEC EN

62304 and electronics to IEC EN 60101-1. The overall medical device development was supported and included hazard analysis and IEC EN 60601 testing. Additionally Tactiq supported the identification and commissioning of volume manufacturing partner in the far east.

