

Title: Development of a self-positioning operation lamp

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Description:

The goal of our project was to develop an operating lamp based on an automatic wireless positioning system. The sterilized pointing device is held by the surgeon and used to mark the focus point and the direction.

In an alternative configuration the positioning device can be placed in a headband or tracking points can be used.

The advantages of this new system in contradiction to a conventional operation lamp are the followings:

- eliminate sterilization problems
- the adjusting process is controlled directly by the surgeon
- perfect focus and light direction can be adjusted for the operating surgeon
- eliminate personal communication problems
- easy handling
- fast moving and switching between positions
- built in camera

Results:

We built the working prototype of the device.

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