

L6-C2 Type of sensor for localization

You need to design a mobile robot used to generate light effects in theaters, stages, or galleries. The robot does not need to be fast and will mainly evolve on the side of the stages, but has to be equipped with a steerable light beam moving quickly. The typical environment is mainly dark with light-absorbing solid walls. You need to localize the robot, what sensor would you use? You have to keep the costs as low as possible.

A: Ultrasound distance sensor

B: Laser TOF sensor

C: Stereo camera

D: Custom localization sensor based on external cameras and active infrared markers on the robot

