

Review of: "Design and Fabrication of a Low-Cost Multi-Purpose Underwater Remotely Operated Vehicle"

1

1 Qilu University of Technology

Potential competing interests: No potential competing interests to declare.

This article provides an overview and design of an ROV, briefly explaining several key components of the system and the calculation basis. Lack of further analysis of system performance, mostly explanatory introductions.

2. The system uses wireless radio to control it, but the radio waves decay rapidly after entering the water, making the wireless communication unusable at a certain depth underwater.
3. The density adjustment device in this article uses a water pump, and a theoretical analysis should be provided on how much power the water pump needs to achieve air compression. If not, how can the ROV achieve drainage and buoyancy?
4. The motion of ROV's arms will cause changes in the system center, resulting in unstable posture. There is still a lot of research space for achieving underwater grasping.
5. It is recommended to conduct underwater experiments for the system to discover more problems rather than imagining them out of thin air.