

## Agriculture Spraying Drone (AGRONE)

### TECHNOLOGY DESCRIPTION

This technology is a GPS system that autonomously spray crops easily and effectively.

### TECHNOLOGY FEATURES

This technology can be controlled via smartphone and AGRONE as it has user friendly interface. The utilization of AGRONE is safe and does not cause chemical drifts. This technology is also equipped with motion sensors that adjust the drone to the optimal height for the most effective spraying. It also has a mounted camera with Multispectral imaging to allow detail analysis of plant condition for better plant care. AGRONE is fully powered with electricity and automatic flight to provide safe distant for user during spraying process. This product has an aesthetically pleasing appearance and ensures safety of users while spraying.

### ADVANTAGES

- Efficient
- Environmental friendly
- Reduces labor cost
- Provides safety during spraying process
- time savvy

### INDUSTRY OVERVIEW

#### Prospect: Agriculture Industry

According to data from the central bank, out of Malaysia's RM1.2trn (\$297bn) in total 2015 GDP at current prices, the agricultural sector accounted for RM97.5bn (\$24.1bn), or 8.4%. The worldwide market for agricultural drones is \$494 million and is anticipated to reach \$3.69 billion by 2022. Agricultural drones are becoming a tool for farmers and they are relatively small, cheap, and easy to use. AGRONE provides an innovative appearance and method. It uses GPS system to autonomously spray crops easily and effectively. Controllable via smartphone, AGRONE provides users with friendly interface and full safety from chemical drifts. Previous technologies do not provide a design that offer adequate safety to farmers from the chemicals used and the use of plane for instance delivers less concentrated vertical spray which ranges from six to 10 meters above the ground. This invention is competing with other drone inventors such as Oregon-based HoneyComb, France-based Delair-Tech, and a longtime UAS distributor Aerial Technology International. At the moment, it is expected that the potential users of the product locally evolves around the 172,230, 46,040, 232,589, 684 rice, vegetable, fruit, and herbal farmers, respectively.



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