

## UAV Quadrotor - Aerial Inspection Robot (HUMA)

Rescue operation in a disaster situation is quite important and should be fast enough to save victims life. So implementing high technologies such as robotics could be quite helpful for search and rescue operations .In now days many technics are used for surveillance and monitoring one of the modern ways is using an UAV, after many years we have developed and manufactured the first Iranian multi rotor (Huma) .

This robot is a family of vertical Unmanned Aerial Vehicles. The trust created by 4 rotors is capable of flying the robot with a maximum of 1 kg payload.

The flight time is about 20 minutes. For a longer flight time additional battery is required. The robot has two wireless connections, one for control and the other to send the robot data to the ground station. The flight distance is up to 1 km in free space (expandable to 4 km) The maximum altitude is also limited to the same range.

### Features:

- Payload: 1000 g
- Flight time: 20 minutes
- Maximum speed: 50 km/h
- Camera Gimbal
- GPS positioning and navigation
- Installation of different cameras



### Applications:

- Aerial Photography
- Surveillance and inspection
- Search and rescue missions
- Small object handling
- Border patrol
- Education and research