

Team: DISHARI

MAP EXPLORER

Path finding Rescuer Offering Map Integrated surveillance

- Firmware platform: Arduino
- Software platform: Processing
- Associative Android App: IP Webcam

Control Mode:

Autonomous control
✓ Custom map input

Manual control
✓ Joystick control

Inherent Features:

- ✓ Virtual navigation via an animated profile
- ✓ Real time mapping
- ✓ Storing the traversed path as an image file in a predefined folder
- ✓ Signal interruption: returning to the initial position following the crossed path
- ✓ Real time video feedback via Wi-Fi collaborated with as many as PC or Smartphone or Tablet having the same IP address
- ✓ Gripping capability
- ✓ 180 camera rotation
- ✓ Image capturing capability
- ✓ Sensing Geographical indexes and graphical view of the sensed data

Applications:

- ✓ Surveillance
- ✓ Rescuer (Calamities e.g. Earthquake, Building collapses, in the cryptic places like cave)
- ✓ Automated feedback to the original location- no possibility of losing the system
- ✓ Object carrier
- ✓ Guide (especially for the paralyzed and visually impaired persons)
- ✓ Automatic image feedback
- ✓ Determinates the aspects of the surrounding