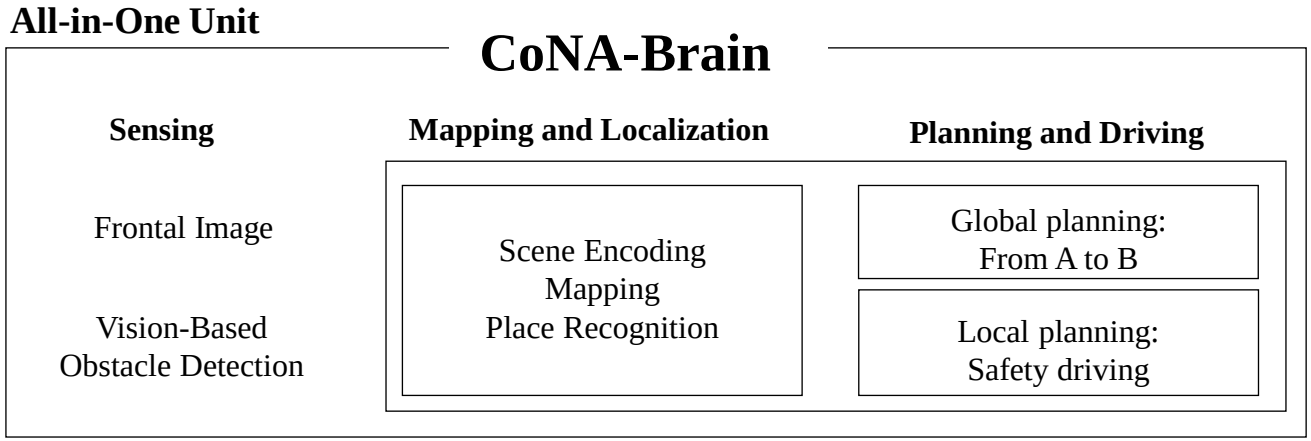
CoNA: Cognitive Navigation Agent

(Visual SLAM and Navigation Solution)



Specifications

Navigation performance: 99%

- Goal positioning accuracy: < 10cm (mean)

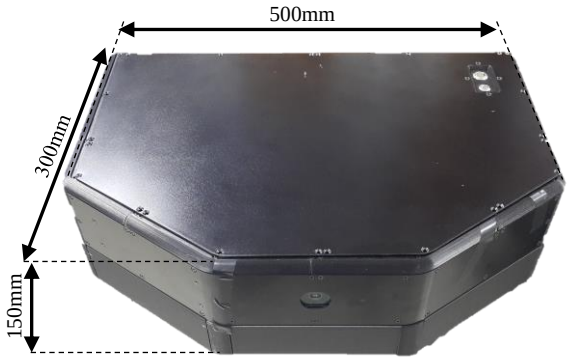
Navigation speed: Max 1.5 m/s, Mean 0.6 m/s

(Adapt speed to surrounding conditions)

Features

- No GPS (Indoor)
- No Artificial landmark, No infrastructure required
- No Laser/Radar/Lidar
- Reasonable sensor: One web camera + Obstacle detector
- Experience-based navigation (Teach and Repeat)
- Easy to update and deploy
- Simplified route manipulation
- Simple user interface

CoNA-Brain-T01

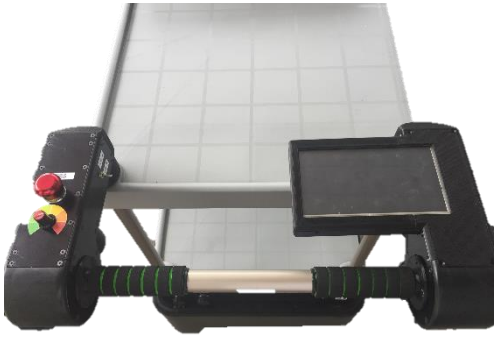


Sensor configuration:

- Frontal camera
- Three RGB-D cameras
- Recommended installation height: 80cm

- This All-in-One unit consists of CoNA-Brain S/W, computing H/W and sensors
- Several cables are provided to connect sensors, displays and mobile base robot
- Client can locate sensors(Camera, Kinect or Orbbec) and displays in their own way
- Client can use any sensors for obstacle detectors(Lidar, Sonar sensors, other RGBD sensors) with our CoNA-Brain
- It can be mounted at client mobile base robot

CoNA-TrayBot



CoNA-Brain-T01 + Tray-Bot

Features

- Factory space-, and commercial space- automation
- System without infrastructure
- Flexibility in your operations
- Cost saving
- Easy to control
- Easy GUI

Specification

- **Navigation speed : Max 1.5 m/s**
- **Payload : Max 40Kg**
- 1000mm(L) x 550mm(W) x 1000mm(H)
- **Positioning accuracy: avg. 10 cm**
- Manual mode / Automatic mode
- Simple user interface