

MantaroBot™ Classic Technical Specification

Hardware Specifications

Battery

- 12V - 15Ah rechargeable Lead Acid Battery
- Battery life 4 hours plus (typical use)
- Optional 12V – 10Ah LiFePO4 long life battery
- Power Saving Mode for even longer battery life
- AC Adapter for charging

Speakers & Microphone

- Two 1.2W Speakers
- Digital microphone

MCU and Motor Controller

- Micro-controller processor drives motors, pan/tilt camera and infrared sensors
- Solid-state Accelerometer for tip detection
- Expansion capability through programmable GPIO and ADC ports

Drive Motors & Wheel Encoders

- Two independently controlled motors provide up to 1.5 miles per hour forward speed
- Wheel encoders provide better driving control

Camera & Display

- Pan and Tilt camera supports up to 720p HD Widescreen Video (depends on link quality)
- Camera mounted on an adjustable 5 foot mast with 7 inch steps providing good visibility, eye contact and flexibility
- 16" LED backlit Monitor (1366 x 768)

Netbook Computer

- Includes Netbook computer loaded with MantaroBot™ host control application

Optional Accessories

- Docking Station (for charging)
- Motorized Mast – Allows remote user to quickly adjust height of camera and display to best suite the situation
- Red Laser Pointer – mounted on Pan/Tilt control with camera
- Extended Battery

Infrared Obstacle Detection

- Four (4) Infrared optical transceivers for obstacle detection

Software Specifications

Remote User Requirements

- Windows XP or Windows 7
- Skype™ Version 5.1 or newer
- MantaroBot™ Control Application (Free)