

MantaroBot™ Classic Technical Specification

Hardware Specifications

Battery

- 12V - 15Ah rechargeable Lead Acid Battery
- Battery life 4 hours plus (typical use)
- Optional 12V – 20Ah LiFePO4 long life battery
- Power Saving Mode for even longer battery life
- AC Adapter for charging

Display / Computer Options

- Dell™ XPS 18 Touch
- HP® Omni 10 Tablet
- Others available upon request

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 & Microphone

- 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
- Digital USB microphone

Infrared Obstacle Detection

- Four (4) Infrared optical transceivers for obstacle detection

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

Software Specifications

Remote User Requirements

- Windows XP, 7 or 8.x for MantaroBot Controller Application (Free)
- Modern web-browser for web-based MantaroBot [TeleGocontroller](#) (Free)