



Gridbots Technologies Private Limited

I2 – First Floor CIIE Building
IIM Ahmedabd – New Campus
Vastrapur – Ahmedabad
Gujarat – 380015

Telephone: 079-40091251
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Aviator

Research Robot





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ABOUT

Aviator is a state of the art robotic platform, which is intended to be used for robotic education and scientific Research.

Aviator with its high precision hardware and software is fully in complaint with industrial standards and can seamlessly be integrated with your existing hardware with a breeze.

It comes preloaded with various pre built hardware modules which save the time and help in getting the work done fast.

HARDWARE CONFIGURATION

- Shaft Encoders with 104 PPR - For precise Positioning up to 3mm
- Dual Processor based design
- Onboard crisp 128x64 LCD for real-time data display
- USB Connectivity for data transfer and Programming
- Duplex Wireless communication Link to PC (4800 Baud)
- Inbuilt Rechargeable batteries
- Real-time debugging with serial port
- I2C Headers
- Onboard speaker
- 16 I/O ports for analog/digital sensor and actuator mountings
- 8 LED's and 4 Switches for easier debugging
- Inflated Rubber wheels with antiskid grip.
- Laser cut acrylic chassis with expansion slots.
- On Board IR Communication Link.
- Polarized Headers for Connections with GPIO ports.
- Mounting accessories with spares.
- Preloaded with Obstruction, Light, Color, Magnetic, Distance, Temperature, Sound Sensors.



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SOFTWARE CONFIGURATION

- Path Planning Library. (ActiveX Control)
- Map Generation Library (ActiveX Control)
- Machine Vision Library (ActiveX Control)
- Neural network Library(ActiveX Control)
- Webcam Interface Library (ActiveX Control)
- Gridbots - Robot development board sample codes for I2C, SPI, USART, LCD development and much more.

OPTIONAL HARDWARE

- Gridbots Robotic Arm
- Gridbots Robotic Gripper
- Servo based pan-tilt camera mounting with night vision capabilities.
- Fast Li-Ion Charger (3 Cell capacity)
- Wireless Camera with A/V out.
- Ultrasonic distance Module(LVMAX/SRF05)
- Sharp IR distance sensor.
- Electronic Compass module
- Electronic 3 Axis accelerometer

SUPPLIED ACCESSORIES

- Aviator Robot
- Fast Battery Charger
- USB Programming Cable
- PC-Robot Connector Cable
- Remote controller
- Software CD and Installation Manual

Contact Details

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