



Gridbots Technologies Private Limited

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

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ABACUS

Physical Computing Device





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ABOUT

Abacus - A Do It Yourself automation device, which can be used by anyone ranging from a school student to a industrial automation designer.

With its interactive and powerful visual programming language developing and deploying projects becomes fun.

With Abacus you can interact with your surroundings, take decisions and automate any device, connect to internet, Make Robots and perform loads of activities!

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HARDWARE CONFIGURATION

- Dual Processor based design
- Onboard crisp 128x64 LCD for real-time data display
- USB Connectivity for data transfer
- Rechargeable batteries
- Real-time debugging with serial port
- 8 I/O ports for analog/digital sensor and actuator mountings
- 8 LED's and 4 Switches for faster prototyping and debugging
- More than 10 type of sensors (Light, Potentiometer, Distance, Temperature).
- Code libraries for Machine Vision, Internet Connectivity, RF data Transfer



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SOFTWARE CONFIGURATION

- Interactive Visual Programming Language
- Web interface library
- Servo Driving Library
- PC data export library

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

- Abacus - Handheld Controller Device
- Connecting Cables (12 Nos.)
- Quick Battery Charger
- USB Programming Cable
- Software CD and Installation Manual and Sample Codes

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