

GOING ON THE SUCESS STORY

For nearly one decade, Wany Robotics has been a leading innovator of the robotic world. With users all around the world, the first generation of Pekee has proved its ability to be used for educational and research purposes but also for robotic application development for the consumer market space.

Looking back to this success story, Wany Robotics unveils PekeeII, witch takes advantage of our experience in both mechanical and electronic engineering. With its modular concept, you'll generate the Pekee solution that meets your exact requirements enjoying of an out-of-the-box fully operational customised robot, compatible with the Microsoft Robotics Studio set of tools.



Application focus:

Educational purpose:

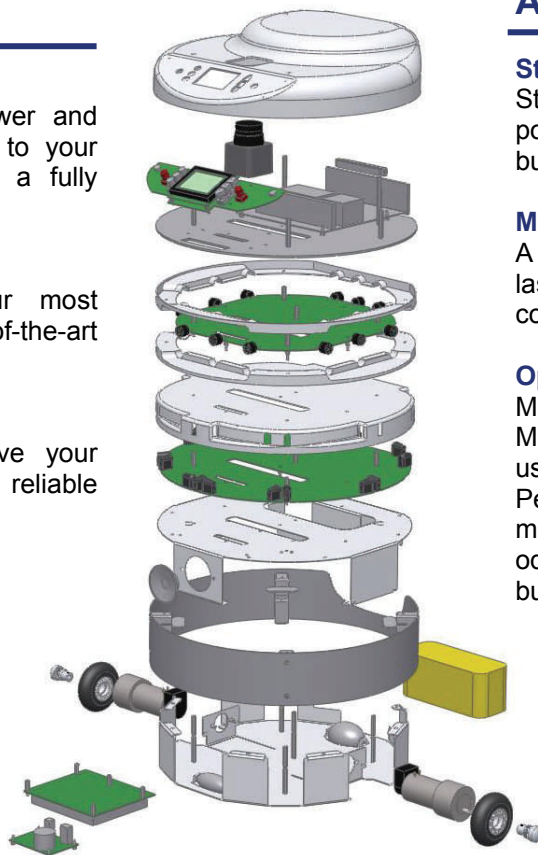
To take advantage of the power and flexibility of Pekee to propose to your students attractive projects on a fully operational platform.

Research:

To implement and test your most demanding projects on a state-of-the-art architecture.

Industry:

To develop and easily improve your application on a robust and reliable robotic solution.



All advantages at a glance:

Strong and reliable mechanical base:

Strong chassis, highly accurate control loop, powerful DC 12V motors and multidirectional bumpers.

More than 20 options for a modular robot:

A broad range of modules including IR, US and laser telemeters, embedded PC and several communication extensions.

Open architecture:

Microsoft Robotics Studio compatible.

Major Linux based development tools can also be used .

PekeeII allows you to bypass its control loop and make your own motors regulation by accessing the odometer raw data, using a parallel bi-directional bus (8bits data/address).

To learn more about Pekee II and order your robot, Please visit us on www.wanyrobotics.com/pekee or send us an email at pekee2info@wanyrobotics.com



Essential

- Ideal for hobbyists and small educations structures.
- Suitable for robotics initiation and self-learning.

Advanced

- Ideal for Universities and Industry.
- Suitable for complex training and R&D activities.

Ultimate

- Ideal for Research labs and hi-tech industry.
- Suitable for implementation and tests on your most demanding projects.

All Pekee packs contain:



Your customised Pekeell
Microsoft Robotics Studio
- Visual C++, C#
- 3D Physical simulator
- Examples and tutorials
with source code provided.

Advanced customisation:



Feel free to contact us for
any special feature you
might require for your
Pekee.
Wany Robotics provides a
wide range of additional
engineering services.

Think out of the Box:



Our premium service
guarantees you a first-
class support and
maintenance to help you
to take the best from your
Pekee II robot.

Wany S.A

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	Essential	Advanced	Ultimate
Pekeell Base Module: 2 wheels drive, Maximum Speed 50cm/s, Mechanical Suspension, Carrying Handle, Programmable architecture based on an Mitsubishi Microcontroller 16bits, 24Mhz, Ram 128Ko, Firmware updatable via internet, USB connector TypeA, Embedded User Interface (8 buttons- 8 Leds whose 5 are user definable, programmable graphical back-lit LCD black&white screen 128x64pix); 2 DC 12V powerful motors, 2 Highly accurate odometers (255560 tops per wheel cycle), over current detection and security with accessible signal for software, 360° bumpers; 12V 7Ah battery NimH, integrated quick charger with accessible signals for software (current voltage, charging in process, end of charging); 96 pins connector (DIN41612 TypeC) for user full control of all robot's digital and analogical signals coming from the robot. Diameter: 387mm / height: from 176mm to 245mm according to the configuration Weight: from 8kg to 15kg according to the configuration Available Options :	✓	✓	✓
- 1 light sensor		✓	✓
- 1 temperature sensor	-	✓	✓
- 2 Soft wheels	-	✓	✓
- 2 inclinometers	-	✓	✓
- 1 absolute compass	-		✓
- 2 microphones detection system	-	-	✓
- 1 Ram 512ko	-	✓	✓
- 1 Sound loudspeaker	-	✓	✓
- 433 Mhz Radio serial link communication module	-		✓
Telemeters Sensors: InfraRed (IR) Telemeter module is based on 16 Wany patented infra-red sensors with Intelligent Measures Filtering. Standard IR Telemeters Module (16 IR Telemeters, max range 2m, ~15% of accuracy) DeLuxe IR Telemeters Module (16 IR Telemeters, max range 2m, ~15% of accuracy, IR Beacon detection and IR Communication capabilities) Standard Ultra Sound Telemeters Module (8 US Telemeters, max range 3m, accuracy 1cm) DeLuxe Ultra Sound Ultra Sound Telemeters Module (8 US Telemeters, max range 3m, accuracy 1cm, Obstacle polar measure, multiple echo filtering capabilities) Laser Range Telemeter (laser Class1 FDA safety, max range 5,6m, accuracy 1cm, 240° scanning range, Angular resolution 0.36°)	-	-	✓
Embedded PC: Embedded PC ITX format, 2 connector UltraDMA 133, PCI, FireWire, USB 2.0, Ethernet LAN 10/100 Mbps,... Various configurations are available from a VIA C3 up to an Intel Core2Duo processor. RAM up to 2GB according to the motherboard. Mass Storage on Compact Flash or Hard Drive. WiFi 802.11g Bluetooth Pan tilt Camera GPS Module	-	VIA C3 1GHz, 512MB RAM	Intel Core2Duo 2GB RAM 80GB
Wany 1 year warranty with mail in service	✓	✓	✓
Wany Premium Service	-	-	✓

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 Note: This is a non-contractual document. Product specifications subject to change without notice.
 All Wany Robotics products are guaranteed for one year.