



Product Catalog

Robotic Kits / Accessories & DIY Hobby Kits

- Specialist in high performance Robotics kits & Sensors.
- High quality DC Gear Motor / Servo Motor / Bo Series Motor & Toy Motors.
- Wide range of wireless devices.
- Microcontroller development boards for beginners & researchers.

Importer & dealers of sensors, Electronic components, DIY hobby kits, Robotic kits & accessories

Division of
Photon Impex

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Importer & dealers of sensors, Electronic components, DIY hobby kits, Robotic kits & accessories



About Us:

Provotech a Division of Photon Impex based in Mumbai, India, we endeavor to build and sustain the standards in the electronic world with our proficient skills and undying commitment to progress and advance. It was started in 2009 with a view of providing the best products and solutions for our customers. We import & stock wide range of electronic components viz. different kinds of Motors, Sensors, Robotic kits etc. We are the authorized distributors for Helishun Relays (China), Heimann Sensor (Germany), Magnesensor Technology (USA), Digi (USA), U.P.S.I (France) and Smartec Sensor (Netherland) in India. Our products are procured from leading manufactures across Hong Kong, China, Singapore and USA. With these components we provide low cost solutions to students, industries & R&D people. Because of our rich experience in this field, we have decided to start selling products directly to customers through our website www.allsensor.in .



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Motors



12V DC Geared Motor (Metal Gears)
Available RPM'S -
 (3.5,10,30,45,60,100,150,200,300,400,500,750,1000)

BO Series Motors

Description- High performance BO series motors in wide range of RPM'S

BO-1 (Single shaft)



Operating Voltage	RPM	No-Load Current	O/P Torque
3.0~12.0V DC	150 RPM	40 ~ 80 mA	0.8 ~ 5Kgf.cm
3.0~12.0V DC	300 RPM	40 ~ 80 mA	0.8 ~ 5Kgf.cm
3.0~12.0V DC	60 RPM	40 ~ 80 mA	0.8 ~ 5Kgf.cm
3.0~12.0V DC	100 RPM	40 ~ 80 mA	0.8 ~ 5Kgf.cm
3.0~12.0V DC	200 RPM	40 ~ 80 mA	0.8 ~ 5Kgf.cm
3.0~12.0V DC	400 RPM	40 ~ 80 mA	0.8 ~ 5Kgf.cm

BO-1(Dual Shaft)



Operating Voltage	RPM	No-Load Current	O/P Torque
3.0~12.0V DC	100 RPM	40 ~ 80 mA	0.8 ~ 5Kgf.cm



Operating Voltage	RPM	NO-Load Current	O/P Torque
3.0~12.0V DC	100 RPM	40 ~ 80 mA	0.8 ~ 5Kg.cm
3.0~12.0V DC	200 RPM	40 ~ 80 mA	0.8 ~ 5Kg.cm



BO-2 (Dual Shaft)



Operating Voltage	RPM	No-Load Current	O/P Torque
3.0~12.0V DC	100 RPM	40 ~ 80 mA	0.8 ~ 5Kg.cm

BO-7 (Dual Shaft)



Operating Voltage	RPM	No-Load Current	O/P Torque
3.0~12.0V DC	150 RPM	40 ~ 80 mA	0.8 ~ 5Kg.cm

BO-8 (Dual Shaft)



Operating Voltage	RPM	No-Load Current	O/P Torque
3.0~12.0V DC	150 RPM	40 ~ 80 mA	0.8 ~ 5Kg.cm

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High Torque Johnson Motor (12V)



Available RPMs: 10,30,45,60,100,150,200,300,500

Torque range: 20kgcm to 35kgcm

RS series high torque DC geared motors



Available RPMs: 10,30,45,60,100,150,200,300,500

Torque range: 15kgcm to 30kgcm

High torque DC geared motors



Available RPMs: 10,30,45,60,100,150,200,300,500

Torque range: 10kgcm to 30kgcm

Vibrator Motor



Toy Motors





3V DC Geared motor



DC Generator Motor



ANALOG SERVO (VS) SERIES

Product ID	Operating Voltage	Operating Speed	Out-put Torque	Weight	Size
VS-1	4.8V ~ 6.0V DC	0.18 Sec/60° at 6.0V No load	≥ 3.6 kg.cm at 4.8V 4 kg.cm at 6.0V	34g	40.5x20.0x33.7mm
VS-2	4.8V ~ 6.0V DC	0.17 sec / 60° at 6.0V no load	≥ 3.2 kg.cm at 4.8V ≥ 3.5 kg.cm at 6.0V	37g	40.6 x 20 x 38.9mm
VS-2A	4.8V ~ 6.0V DC	0.17 sec / 60° at 6.0V no load	≥ 3.2 kg.cm at 4.8V ≥ 3.5 kg.cm at 6.0V	37g	40.6 x 20 x 38.9mm
VS-2MB	4.8V ~ 6.0V DC	0.17 sec / 60° at 6.0V no load	≥ 3.2 kg.cm at 4.8V ≥ 3.5 kg.cm at 6.0V	42g	40.6 x 20 x 38.9mm
VS-2HMB	4.8V ~ 6.0V DC	0.13 sec / 60° at 6.0V no load	≥ 7 kg.cm at 4.8V ≥ 8 kg.cm at 6.0V	53g	40.6 x 20 x 38.9mm
VS-3	4.8V ~ 6.0V DC	0.12 sec / 60° at 6.0V no load	≥ 2.2kg.cm at 4.8V ≥ 2.5kg.cm at 6.0V	17g	29.0 x 12.8 x 31.5mm

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Product ID	Operating Voltage	Operating Speed	Out-put Torque	Weight	Size
VS-6	4.8V ~ 6.0V DC	0.09 sec / 60° at 6.0V no load	≥ 0.6 kg.cm at 4.8V ≥ 0.8 kg.cm at 6.0V	6g	21.18 x 11.58 x 22.1mm
VS-10	4.8V ~ 6.0V DC	0.19 sec / 60° at 6.0V no load	≥ 10 kg.cm at 4.8V ≥ 12 kg.cm at 6.0V	80g	49.2 x 25 x 42.5mm
VS-10A	4.8V ~ 6.0V DC	0.2 sec / 60° at 6.0V no load	≥ 7.5 kg.cm at 4.8V ≥ 9 kg.cm at 6.0V	60g	49.2 x 25 x 42.5mm
VS-11	4.8V ~ 6.0V DC	0.19 sec / 60° at 6.0V no load	≥ 15 kg.cm at 4.8V ≥ 19 kg.cm at 4.8V	100g	60 x 29.1 x 54.3mm
VS-12M	4.8V ~ 6.0V DC	0.12 sec / 60° at 6.0V no load	≥ 1.5 kg.cm at 4.8V ≥ 1.7 kg.cm at 6.0V	8g	25 x 8.7 x 21.6mm
VS-15	4.8V ~ 6.0V DC	0.12 sec / 60° at 6.0V no load	≥ 1.6 kg.cm at 4.8V ≥ 1.8 kg.cm at 6.0V	9g	23 x 11.8 x 25.6mm
VS-18MB	4.8V ~ 6.0V DC	0.2 sec / 60° at 6.0V no load	≥ 6.5 kg.cm at 4.8V ≥ 7 kg.cm at 6.0V	57.5g	43 x 23 x 38.8mm
VS-19	3.7V	1 sec / 12mm at 3.7V no load	≥ 60 gf.cm at 3.7V	3.7 g	29 x 7.3 x 15.7mm
VS-5M	4.8V ~ 6.0V DC	0.17 sec / 60° at 6.0V no load	≥ 1 kg.cm at 4.8V ≥ 1.2 kg.cm at 6.0V	11.5 g	22.94 x 12.2 x 24.2mm

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DIGITAL SERVO (VSD) SERIES



Product ID	Operating Voltage	Operating Speed	Out-put Torque	Weight	Size
VSD-1	4.8V ~ 6.0V DC	0.18 Sec/60° at 6.0V No load	≥ 3.6 kg.cm at 4.8V 4 kg.cm at 6.0V	34g	40.5x20.0x33.7mm
VSD-2	4.8V ~ 6.0V DC	0.17 sec / 60° at 6.0V no load	≥ 3.2 kg.cm at 4.8V ≥ 3.5 kg.cm at 6.0V	37g	40.6 x 20 x 38.9mm
VSD-3E	4.8V ~ 6.0V DC	0.12 sec/ 60° at 6.0V no load	≥ 2.2 kg.cm at 4.8V ≥ 2.5 kg.cm at 6.0V	17g	29 x 12.8 x 31.5mm
VSD-5	4.8V ~ 6.0V DC	0.17 sec / 60° at 6.0V no load	≥ 1 kg.cm at 4.8V ≥ 1.2 kg.cm at 6.0V	8g	22.94 x 12.2 x 24.2mm
VSD-5E	4.8V ~ 6.0V DC	0.17 sec / 60° at 6.0V no load	≥ 1 kg.cm at 4.8V ≥ 1.2 kg.cm at 6.0V	8g	22.9 x 12.2 x 24.2mm
VSD-6	4.8V ~ 6.0V DC	0.09 sec / 60° at 6.0V no load	≥ 0.6 kg.cm at 4.8V ≥ 0.8 kg.cm at 6.0V	6g	21.18 x 11.58 x 22.1mm
VSD-6E	4.8V ~ 6.0V DC	0.09 sec/60° at 6.0V No load	≥ 0.6 kg.cm at 4.8V ≥ 0.8 kg.cm at 6.0V	6g	21.18 x 11.58 x 22.1mm
VSD-15E	4.8V ~ 6.0V DC	0.12 sec / 60° at 6.0V no load	≥ 1.6 kg.cm at 4.8V ≥ 1.8 kg.cm at 6.0V	9g	23 x 11.8 x 25.6mm
VSD-18MB	6.0V ~ 7.2V DC	0.5 sec / 360° at 7.2V no load	≥ 9 kg.cm at 6.0V ≥ 9.8 kg.cm at 7.2V	80g	49.2 x 25 x 42.5mm

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ECONOMY SERVO (VTS) SERIES



Product ID	Operating Voltage	Operating Speed	Out-put Torque	Weight	Size
VTSD-05AE	4.8V ~ 6.0V DC	0.17 sec / 60° at 6.0V no load	≥ 1.0 kg.cm at 4.8V ≥ 1.2 kg.cm at 6.0V	8g	22.5 x 12.8 x 23.3mm
VTS-05A	4.8V ~ 6.0V DC	0.17 sec / 60° at 6.0V no load	≥ 1.0 kg.cm at 4.8V ≥ 1.2 kg.cm at 6.0V	8g	22.5 x 12.8 x 23.3mm
VTS-05B	4.8V ~ 6.0V DC	0.08 sec / 60° at no load	≥ 0.6 kg.cm at 4.8V ≥ 0.8 kg.cm at 6.0V	8g	22.5 x 12.8 x 23.3mm
VTS-08A	4.8V ~ 6.0V DC	0.33 sec / 60° at no load	≥ 5 kg.cm at 4.8V ≥ 6 kg.cm at 6.0V	43 g	43 x 23 x 38.2mm
VTS-08B	4.8V ~ 6.0V DC	0.2 sec / 60° at no load	≥ 4 kg.cm at 4.8V ≥ 5 kg.cm at 6.0V	43 g	43 x 23 x 38.2mm

HITEC Servo Motors



Product ID	Operating Voltage	Operating Speed	Out-put Torque	Weight	Size
HS-311	4.8V ~ 6.0V DC	0.15 sec / 60° at 6.0V no load	≥ 3.0 kg.cm at 4.8V ≥ 4.5 kg.cm at 6.0V	43g	40 x 20 x 36.5mm
HS-475B	4.8V ~ 6.0V DC	0.18 sec / 60° at 6.0V no load	≥ 4.4 kg.cm at 4.8V ≥ 5 kg.cm at 6.0V	40g	38.80 x 19.80 x 36.00mm

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Stepper Motors



Bipolar stepper Motor (B1)

- Operating Voltage: 24V DC
- 4 wire stepper motor
- Current/Phase : 600mA
- Coil Resistance/phase: 7Ω



Unipolar stepper Motor (U1)

- Operating Voltage: 24V DC
- 6 wire stepper motor
- Current/Phase : 560mA
- Coil Resistance/phase: 7Ω



Unipolar stepper Motor (U2)

- Operating Voltage: 24V DC
- 6 wire stepper motor
- Current/Phase : 560mA
- Coil Resistance/phase: 7Ω



Unipolar stepper Motor (U3)

- Operating Voltage: 24V DC
- 6 wire stepper motor
- Current/Phase : 400mA
- Coil Resistance/phase: 9Ω

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Wheels



Product Code: WHL1
Diameter : 70mm
Width : 20mm



Product Code: WHL2
Diameter : 70mm
Width : 20mm



Product Code: WHL3
Diameter : 70 mm
Width : 40 mm



Product Code: WHL4
Diameter: 40 cm
Width: 20 cm

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Product Code: WHL5
Diameter : 100 mm
Width : 20mm



Product Code: WHL 6
Diameter : 100mm
Width : 45mm



Product Code: WHL11
Diameter: 50mm
Width: 20mm



Product Code: WHL16
Diameter: 70mm
Width:10mm

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Product Code: WHL8
Diameter: 68mm
Width: 10mm



Product Code: WHL7
Diameter: 70mm
Width: 10mm



Product Code: WHL15
Diameter: 70mm
Width: 10mm

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Product Code: WHL13
Diameter: 100mm
Width: 20mm



Product Code: WHL10
Diameter: 85mm
Width: 15mm



Product code: WHL9
Diameter: 85mm
Width: 15mm



Product code: WHL12
Diameter: 60mm
Width: 40mm



Product code: WHL17
Diameter: 85mm
Width: 10mm

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Mechanical Accessories



Caster



Small sized caster
Product code: MAC10
Diameter: 27mm
Height: 18mm



Medium sized caster
Product Code: MAC11
Diameter: 35mm
Height: 20mm



Large sized caster
Product code: MAC12
Diameter: 40mm
Height: 22mm

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Dummy wheel connector



Spur Gear



Worm Gear



1.2m long track Belt



Coupling



Small track Belt



1.4m track Belt



Gripper



BO Motor robot Gripper



Gear-Box



BO Motor clamp



DC Motor clamp



Rectangular Plastics Lugs of plastic is used to connect two plates or boards



Bushing and Coupling is used for gearbox.

Robot chassis



Compact chassis for robot constructions like

- Line following robot
- Obstacle avoiding robot
- Sound control robot
- DTMF control robot
- And many more.....



Robust metal chassis for robot constructions with provision for attaching four motors



Powder coated metal chassis
can be use in skid wheel

Switches



Remote control box



DPDT Switches

Remote control box is also available in Metal casing and Plastic casing

Joysticks and Knobs



Small size Joystick



Big size Joystick



Linear Push-Pull actuator(12V DC)



Small size Water pump(12V DC)



Big size water pump(12V DC)

Battery Holder



6 Cell (AA Size) 3+3 Battery Holder



6 Cell (AA Size) Straight Battery Holder

Solar Bugs & DIY Solar Kits



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Battery operated Bugs



Solar Robot



Solar Helicopter



Solar Boat



Solar Windmill



Solar Airplane



Solar Car

DIY 6 in 1 Solar Kit:

1. Solar Robot
2. Solar Helicopter
3. Solar Boat
4. Solar Windmill
5. Solar Airplane
6. Solar Car

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DIY 6 in 1 Solar Kit:

1. Solar Car
2. Solar Windmill
3. Solar puppy
4. Solar boat
5. Solar fan
6. Solar revolving plane



3 in 1 DIY Solar transformer Kit

1. Transformer
2. Scorpion
3. Tank



DIY Solar Boat

For further enquiry please visit our website www.allsensor.in or email us at info@allsensor.in



DIY Solar Bullet Train



DIY Solar Roller Coaster



DIY Solar Helicopter

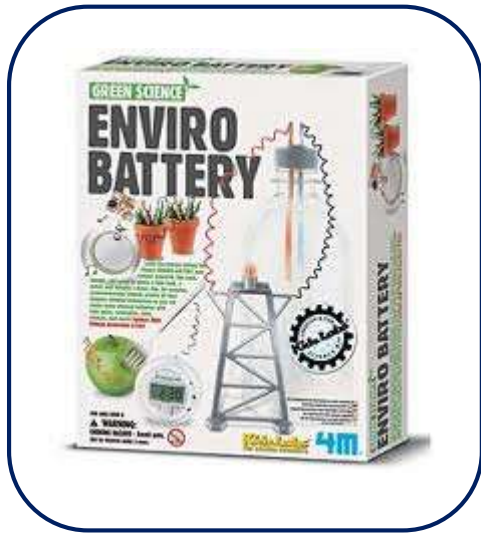


DIY Solar Roller-Coaster

Solar Potato kit



This kit help you to make battery from a potato



This kit helps you to make a battery from a potato, lemon, water, coins, or even a cup of dirt or a potted plant!



4 Blade Propeller

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Specifications:

- Supply power: 3.6V ~ 6V DC
- Working current: < 150mA
- Capacity: 256 templates
- Fingerprint enrollment time: < 500ms
- Fingerprint search time: < 1s (200 fingerprint, average value in test)
- Interface protocol: UART (TTL logic levels)
- Communication Baud rate: 57600bps
- Module dimension: 32mm x 23mm x 7mm



Tilt sensor

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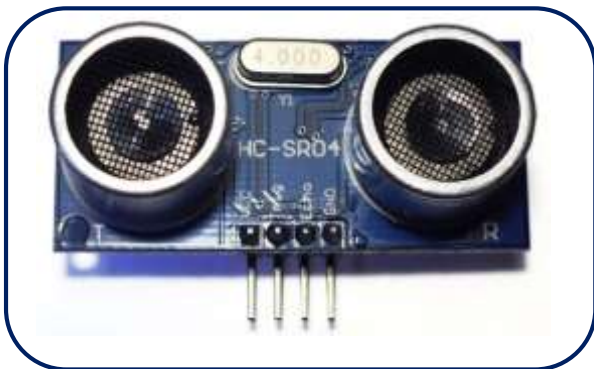
Proximity Sensor

Specifications:

- Power supply: 5V
- Current: 100mA
- Range: 3-80cm adjustable
- Red: +5V;
- Yellow: Signal;
- Green: GND



Vibration sensor



Ultrasonic Range finder: HC-SR04

- Operating Voltage: +5V DC.
- Operating current : < 2mA
- Sensing angle: <15°
- Range of measurement: 2cm – 500 cm
- Accuracy : ± 3cm

Ultrasonic Range finder: TS106



- Operating Voltage: +5V DC.
- Operating current : < 15mA
- Sensing angle: <15°
- Range of measurement: 3cm – 300 cm
- Accuracy : ± 2cm

Website www.allsensor.in or email us at info@allsensor.in



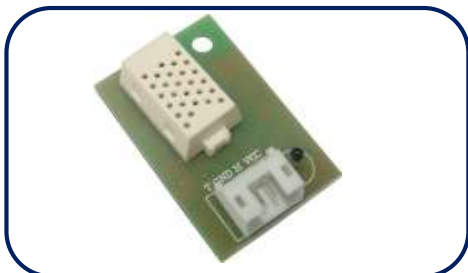
GH311 Ultrasonic sensor

- Operating voltage: 5v
- Sensing distance: 2mm to 3M
- High Sensitivity, Reliability and Stability
- Extreme-Temp resistant, moisture proof, shock & vibration-proof
- Sensing angle: < 15°

Humidity sensor module



HMTc1 (LM35)



HSM-20G

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SY-HS-220



HMTC1N (NTC)



HMTR1N (NTC)

Wireless Camera



- **TV System:** LA, CCIR NTSC/EIA.
- **Resolution:** 380TV Lines.
- **Scan frequency :** PLA/CCIR:50Hz
NTSC/EIA:60Hz
- **Minimum Illumination:** 3LUX.
- **Output Power:** 50mW ~ 200mW.
- **Output Frequency:** 900MHz to 1200MHz.
- **Power Supply:** DC +8V ~ +12 V.



Wireless camera without FIFO

Specifications:

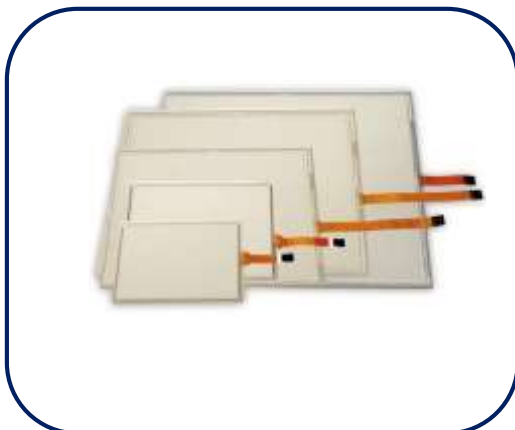
- Small size, low voltage, providing single-chip VGA camera and image processor for all functions.
- Users can fully control the image quality, data format and transmission.
- Process all image processing functions including gamma curves, white balance, saturation, color and so can SCCB interface programming.



Wireless camera with FIFO

Specifications:

- Low operating voltage for embedded application.
- A great camera module for DIY / comes with high quality lens.
- SCCB interface compatible with I2C interface.
- With AL422 3M-Bits FIFO.



Resistive Touchscreen

Wide range of 4/5 wire resistive touchscreen in different sizes.



RF modules



TX01ASK-RX05ASK



TX01FSK-RX01FSK



WSTX01-WSRX02

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TX01ASK-RX07ASK



Transreceiver module COB2.4GHZ



Transreceiver module TR2.4GHZ



Transreceiver module TR0011-FSK



Transceiver module TR0001-FSK



Transceiver module TR0052-FSK



Transceiver module TR2.4PA

Zigbee



XBee-Series 2

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XBee Pro-Series 2



XBee USB Adapter(CP)



XBee USB Adapter(FT)

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