



## Air pollution Exhibition Model

### Package Includes:

#### Branding Free Project / Activity kit

- No Brand Name/Logo/Watermark on Components, PCB & Projects
- 100% Working project
- Tested Project & Activity kits

#### Documentation

- Free Project Synopsis – ***Embedded below***
- Printed instruction booklet

#### Support

- Working Video – ***Embedded Below***
- Technical Support – WhatsApp@9109087333
- Get Discount Coupon - WhatsApp@9303254433

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**SKU:** PH\_SEM\_15

**Price:** ~~₹604.00~~ Original price was: ₹604.00. ₹356.00  
Current price is: ₹356.00.

**Stock:** instock

**Categories:** [Environment & Pollution](#), [Exhibition Models & Inspire Award](#), [Technology & Innovation](#)

**Tags:** [school science project](#), [science exhibition model](#), [security system](#)

### Product Description

## Download Free Project Synopsis

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material to make a suitable projects report by the student. It is using Cardboard/Wooden base, Paper, Foam based board, stationary items, Electronic-Electrical Components, Mechanical & Scientific goods as per the requirement of a particular model. Colour of product and decoration item may be varying according to availability of material but we make ensure that we will deliver the product with same working, structure and dimensions as describe in product description section.

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## Anti-Sleep and safety - DIY

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- **Free Shipping** above Rs999.
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## Highlights

### Branding Free Project

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- Tested Project &

### Documentation

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- Printed Short Re

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## Support

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**NOTE:** This Kit Includes Pre-programmed Arduino Board you don't need to upload code until you have to change anything.

**NOTE:** This kit required soldering & circuit testing skills, buy this kit if you have good soldering skills, otherwise you can also buy 'ready to use' project for same topic.

---

**[Click Here to Buy Ready to Use Kit.](#)**

[Read More](#)

**SKU:** PH\_EPK\_135

**Price:** ~~₹3,000.00~~ Original price was: ₹3,000.00. ₹1,499.00 Current price is: ₹1,499.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project kit \(EPK\)](#), [Exhibition Models & Inspire Award](#), [Technology & Innovation](#), [Transport](#)

## Product Description

### Kit Includes :

- Electronic Parts (listed in product image)
- Circuit Diagram
- Project Code
- Printed Circuit Board (PCB)
- Printed Short Report

## Prerequisite Requirements

### Hardware :

1. [Soldering Iron \(Buy Now \)](#)
2. [Soldering Paste \(Buy Now \)](#)
3. [Soldering Wire \(Buy Now \)](#)
4. [Soldering Stand \(Buy Now\)](#)
5. [Wire Cutter \(Buy Now\)](#)
6. [Screw Driver \(Buy Now\)](#)

## Software :

1. Arduino IDE (optional) - [Download Now](#)

[Demo Video - How to Download Arduino IDE ?](#)

## Skills:

1. Arduino Programming (optional)
2. Soldering ([Click Here for Free Tutorial](#))
3. Circuit Testing

---

## ABSTRACT:

Creating an anti-sleep alarm with driver safety using an Arduino Uno involves building a system that can detect signs of drowsiness or inattentiveness in a driver and alert them to stay awake and focused. One common approach is to monitor the driver's eye movements and sound an alarm if signs of fatigue are detected. Here's a simplified overview of how you can create such a system

## INTRODUCTION:

In an era where long commutes and extended road trips have become a common part of our lives, the issue of driver fatigue and drowsiness is a significant concern. Drowsy driving can lead to accidents with serious consequences. To address this critical safety concern, we have developed an Anti-Sleep Alarm system using an Arduino Uno SMD, an eye blink sensor, a 5V relay module, a BO motor, wheels, a buzzer, a 1-watt red LED, a 9V SMPS, and a 9V battery.

## AIM:

The primary objective of this project is to create a robust and cost-effective system that detects signs of drowsiness or inattention in a driver and promptly alerts them to stay awake and focused. The Anti-Sleep Alarm system is designed to enhance driver safety during long journeys and late-night drives.

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## [Download Free Project Synopsis](#)

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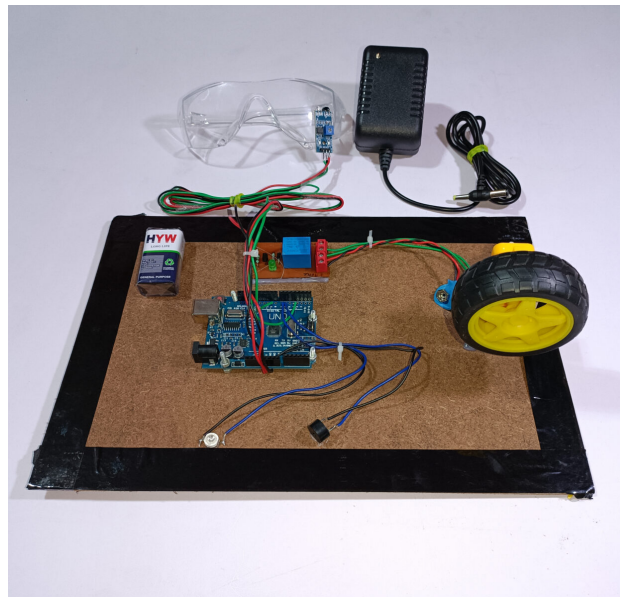
### **Working Video**

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## **Anti-Sleep and safety using**

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### **Highlights**

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## Documentation

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**SKU:** PH\_EP\_135

**Price:** ~~₹3,008.00~~ Original price was: ₹3,008.00. ₹  
1,775.00 Current price is: ₹1,775.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Mechatronics](#), [Projects](#), [Technology & Innovation](#), [Transport](#)

## Product Description

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Creating an anti-sleep alarm with driver safety using an Arduino Uno involves building a system that can detect signs of drowsiness or inattentiveness in a driver and alert them to stay awake and focused. One common approach is to monitor the driver's eye movements and sound an alarm if signs of fatigue are detected. Here's a simplified overview of how you can create such a system

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The primary objective of this project is to create a robust and cost-effective system that detects signs of drowsiness or inattention in a driver and promptly alerts them to stay awake and focused. The Anti-Sleep Alarm system is designed to enhance driver safety during long journeys and late-night drives.

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### **Download Free Project Synopsis**

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### **Working Video**

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**Automatic H**

**Package Inc**

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**Documentation**

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- Printed instruction booklet

## Support

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**SKU:** PH\_SEM\_06

**Price:** ~~₹816.00~~ Original price was: ₹816.00. ₹481.00  
Current price is: ₹481.00.

**Stock:** instock

**Categories:** [Exhibition Models & Inspire Award](#),  
[Technology & Innovation](#)

**Tags:** [school science project](#), [science exhibition model](#)  
, [security system](#)

## Product Description

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## Automatic Plant Irrigation System using Soil moisture sensor (DC PUMP)

### Package Includes:

### Branding Free Project / Activity kit

- No Brand Name/Logo/Watermark on Components, PCB & Projects
- 100% Working project
- Tested Project & Activity kits

### Documentation

- Free Project Synopsis – **Embedded below**
- Printed instruction booklet
- Printable Soft copy of Project Report
- PPT

### Support

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**SKU:** PH\_EP\_046

**Price:** ₹1,320.00 Original price was: ₹1,320.00. ₹779.00 Current price is: ₹779.00.

**Stock:** instock

**Categories:** [Agriculture Engineering](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [IC & Transistor](#), [Projects](#), [Technology & Innovation](#)

## Product Description

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### Automatic S

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**SKU:** PH\_SEM\_02

**Price:** ₹764.00 Orig  
Current price is: ₹4

**Stock:** instock

**Categories:** [Exhibition Models & Inspire Award](#),  
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**Tags:** [school science project](#), [science exhibition model](#)  
, [security system](#)

## Product Description

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## Bidirectional

## Package Inc

## Branding Free

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**SKU:** PH\_EP\_068

**Price:** ~~₹4,000.00~~ Original price was: ₹4,000.00. ₹2,200.00 Current price is: ₹2,200.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Technology & Innovation](#)

**Tags:** [school science project](#), [science exhibition model](#), [security system](#)

## Product Description

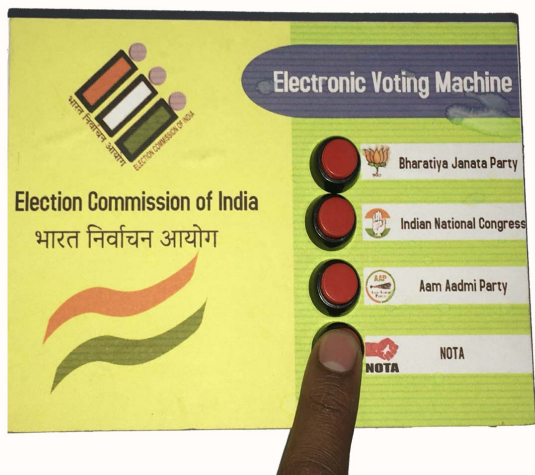
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## Electronic Voting Machine (EVM) with Separated Switch Panel

### Package Includes:

#### Branding Free Project / Activity kit

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- 100% Working project
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#### Documentation

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#### Support

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**SKU:** PH\_EP\_057

**Price:** ~~₹3,800.00~~ Original price was: ₹3,800.00. ₹2,250.00 Current price is: ₹2,250.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Technology & Innovation](#)

**Tags:** [school science project](#), [science exhibition model](#), [security system](#)

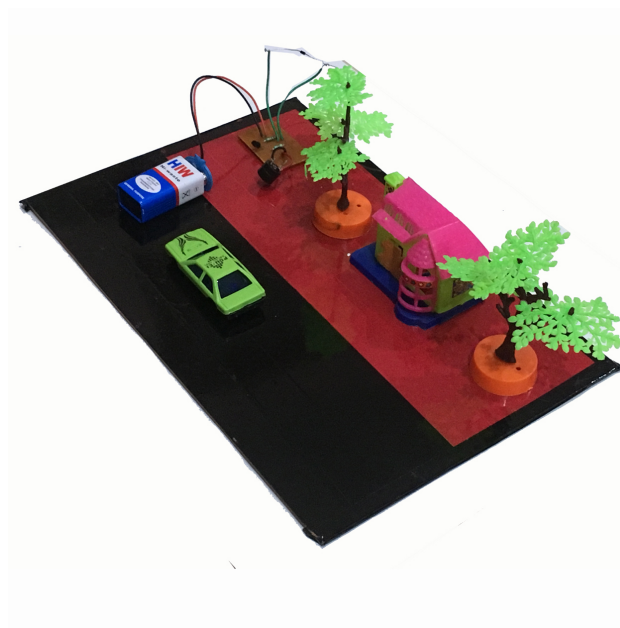
### Product Description

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### Fire Alarm Model

### Package Includes

### Branding Free

- No Brand Name on PCB & Projects
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- Tested Project

### Documentation

- Free Project Synopsis
- Printed instructions

### Support

- Working Video
- Technical Support
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**SKU:** PH\_SEM\_04

**Price:** ₹732.00 Original Price  
Current price is: ₹4

**Stock:** instock

**Categories:** [Exhibition Models & Inspire Award](#),  
[Security](#), [Technology & Innovation](#)

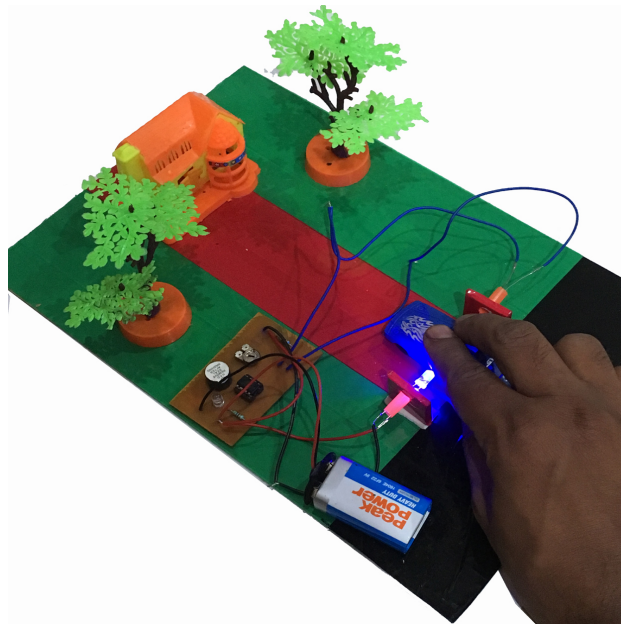
**Tags:** [school science project](#), [science exhibition model](#)  
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## Laser Alarm

## Package Inc

## Branding Free

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- PCB & Projects
- 100% Working
- Tested Project

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## Support

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**SKU:** PH\_SEM\_03

**Price:** ₹808.00 Original price was: ₹808.00. ₹477.00  
Current price is: ₹477.00.

**Stock:** instock

**Categories:** [Exhibition Models & Inspire Award](#),  
[Security](#), [Technology & Innovation](#)

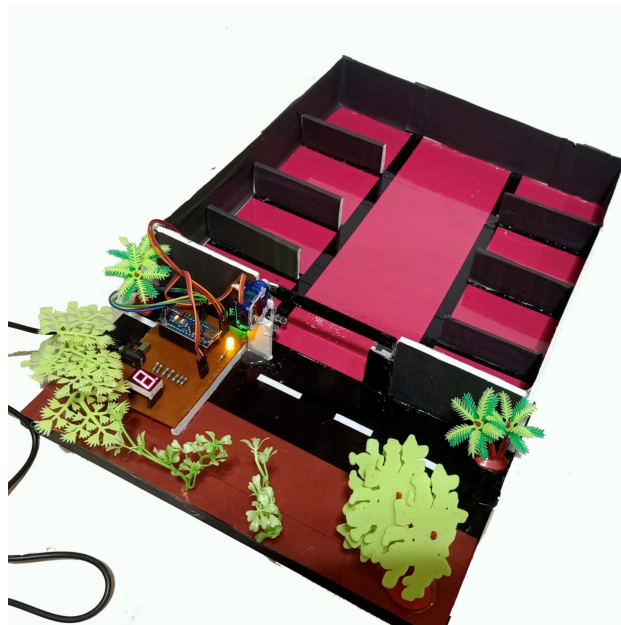
**Tags:** [school science project](#), [science exhibition model](#)  
, [security system](#)

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## Parking Lot

### Available offer

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## Highlights

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### Documentation

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- Printable Soft copy of Project Report

### Support

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### Delivery Time

- **Handling Period** : 1-2 Days
- **Transit Time** :3-5 Days (Approx.)
- **Delivery Time** : Handling Period + Transit Time (4-7 Days Approx.)

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**SKU:** PH\_EP\_018

**Price:** ~~₹3,476.00~~ Original price was: ₹3,476.00. ₹2,051.00 Current price is: ₹2,051.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Mechatronics](#), [Projects](#), [Technology & Innovation](#), [Transport](#)

## Product Description

### **Parking Lot Gate Controller with Capacity Counter using 7 Segment Display / slot based parking lot**

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#### **INTRODUCTION:**

A parking lot gate controller using Arduino, a 7-segment display, and a servo motor can be built to manage the opening and closing of a parking lot gate and display relevant information. The system can include features like a numeric display for parking space availability for the gate closure. The aim of this project is to design and build a prototype of an automated parking system which will show the number of parking spaces left inside the parking lot. It will have a pre-installed number of maximum cars that can be parked. A conduction sensor will count the entry and exit of each car and open the barricade for the entry and exit. The entry and exit system can how ever be chosen. A display on the monitor outside the parking lot will show how many cars can still be parking inside the parking lot. In this project, 8 parking spaces have been allotted with only one entry/exit door.

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#### **[Download Free Project Synopsis](#)**

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#### **[Working Video](#)**

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### Highlights

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#### Documentation

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**SKU:** PH\_EP\_028



**Price:** ₹3,908.00 Original price was: ₹3,908.00. ₹2,306.00 Current price is: ₹2,306.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Technology & Innovation](#)

**Tags:** [school science project](#), [science exhibition model](#), [security system](#)

## Product Description

### INTRODUCTION :

The Portable Environment Monitor is a project aimed at creating a device that can measure and display key environmental parameters such as air quality, temperature, humidity, and light intensity. The monitor utilizes an Arduino Nano microcontroller board along with sensors like MQ135, DHT11, and an LDR (Light Dependent Resistor) to collect data. The data is then displayed on an LCD16x2 display for easy interpretation. This project provides a compact and portable solution for monitoring environmental conditions in various settings.

### MARKET USES:

The Portable Environment Monitor has various potential market uses, including:

- **Indoor Air Quality Monitoring:** It can be utilized in homes, offices, and public buildings to monitor air quality, detect harmful gases, and ensure a healthy living and working environment.
- **Environmental Research:** Scientists and researchers can use the monitor for field studies, analyzing pollution levels, and collecting data for further analysis.
- **Smart Agriculture:** The monitor can be employed in greenhouse environments to maintain optimal temperature, humidity, and light levels for plant growth.
- **Industrial Safety:** It can be utilized in industrial settings to monitor air quality and ensure a safe working environment for employees.
- **Educational Purposes:** The Portable Environment Monitor can be used as an educational tool to teach students about environmental monitoring and the importance of air quality.

### ADVANTAGES:

The Portable Environment Monitor offers several advantages:



- **Portability:** The device is compact and portable, allowing for easy deployment in various locations.
  - **Real-time Monitoring:** It provides real-time data on temperature, humidity, gas concentration, and light intensity, allowing users to make informed decisions.
  - **Cost-effective:** The components used in the project are relatively inexpensive and readily available, making it an affordable solution for environmental monitoring.
  - **User-friendly Interface:** The LCD16x2 display provides a clear and easy-to-read interface for displaying environmental parameters.
  - **Customizability:** The project can be expanded or modified to include additional sensors or functionality based on specific requirements.
- 

[Download Free Project Synopsis](#)

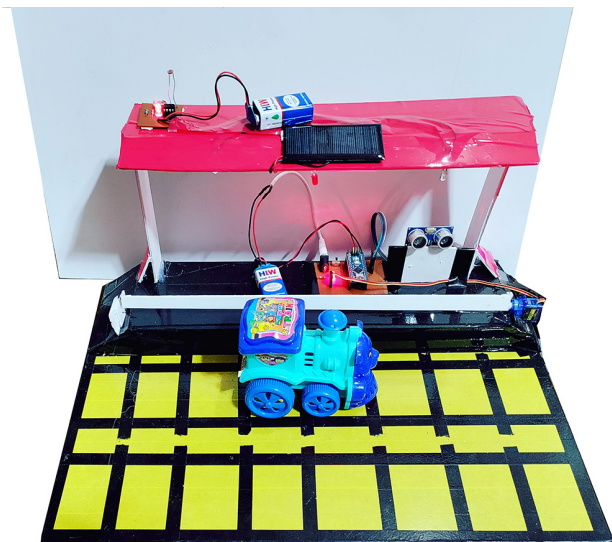
**Working Video**

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# Railway Platform Accident Safety cum Automatic Night Light

## Package Includes:

### Branding Free Project / Activity kit

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- 100% Working project
- Tested Project & Activity kits

## Documentation

- Free Project Synopsis – ***Embedded below***
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## Support

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**SKU:** PH\_SEM\_29

**Price:**

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Security](#), [Technology & Innovation](#), [Transport](#)

**Tags:** [school science project](#), [science exhibition model](#), [security system](#)

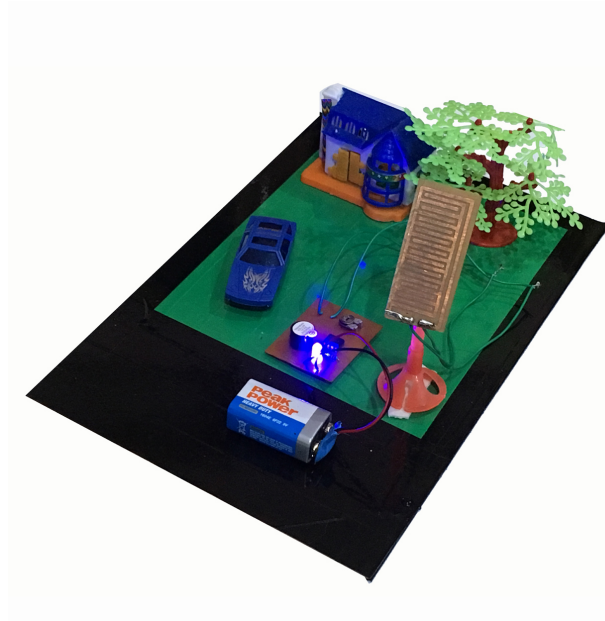
## Product Description

## Download Free Project Synopsis

### Working Video

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### Rain Alarm

### Package Includes

### Branding Free

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- 100% Working
- Tested Project

### Documentation

- Free Project Synopsis
- Printed instructions

### Support

- Working Video
- Technical Support
- Get Discount Code

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**SKU:** PH\_SEM\_05

**Price:** ₹752.00 Original Price  
Current price is: ₹4

**Stock:** instock

**Categories:** [Exhibition Models & Inspire Award](#),  
[Technology & Innovation](#)

**Tags:** [school science project](#), [science exhibition model](#)  
, [security system](#)

## Product Description

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**Renewable  
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**Package Inc**

**Branding Free**

- No Brand Name
- PCB & Projects
- 100% Working
- Tested Project

**Documentation**

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**SKU:** PH\_SEM\_12

**Price:** ₹1,064.00 Original price was: ₹1,064.00. ₹  
699.00 Current price is: ₹699.00.

**Stock:** instock

**Categories:** [Energy](#), [Exhibition Models & Inspire Award](#), [Technology & Innovation](#)

**Tags:** [school science project](#), [science exhibition model](#)  
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# Smart Blind Stick With vibrators, Water sensor & Night Sensor

## Package Includes:

## Branding Free Project / Activity kit

- No Brand Name/Logo/Watermark on Components, PCB & Projects
- 100% Working project
- Tested Project & Activity kits

## Documentation

- Free Project Synopsis – **Embedded below**
- Printed instruction booklet
- Printable Soft copy of Project Report
- PPT

## Support

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**SKU:** PH\_EP\_048

**Price:** ~~₹3,800.00~~ Original price was: ₹3,800.00. ₹2,500.00 Current price is: ₹2,500.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Technology & Innovation](#)

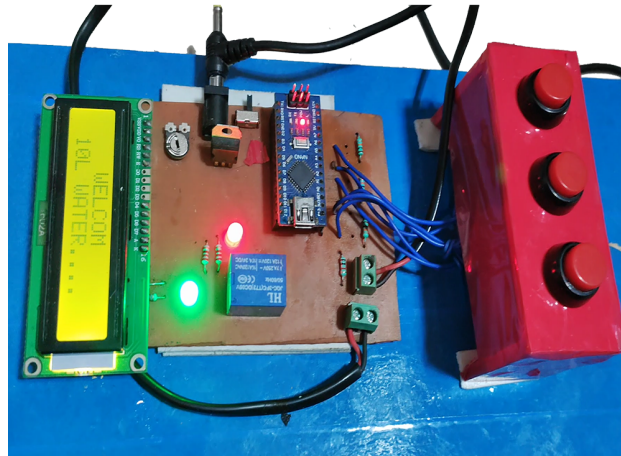
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**SKU:** PH\_EP\_072

**Price:** ₹4,800.00 Original price was: ₹4,800.00. ₹2,700.00 Current price is: ₹2,700.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Environment & Pollution](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Technology & Innovation](#)

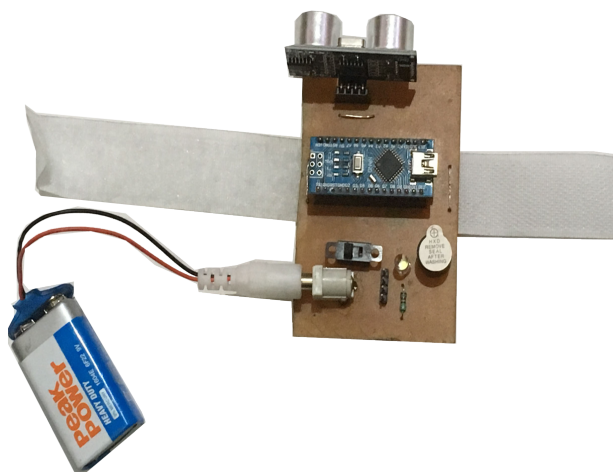
## Product Description

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## Social Distancing Using Ultrasonic

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**SKU:** PH\_EP\_020

**Price:** ~~₹2,380.00~~ Original price was: ₹2,380.00.₹  
1,404.00Current price is: ₹1,404.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Technology & Innovation](#), [Wearable Technology](#)

## Product Description

### INTRODUCTION:

The Social Distance Alarm project using Arduino and an ultrasonic sensor is a technological solution developed to promote social distancing and help prevent the spread of infectious

diseases. It uses ultrasonic sensors to measure the distance between individuals and provides an alert if the safe distance threshold is breached. This project aims to create awareness about maintaining a safe distance and encourage responsible social behavior.

### **USES:**

The Social Distance Alarm project has various potential uses, including:

1. **Public Spaces:** It can be implemented in crowded public areas such as shopping malls, airports, train stations, and bus terminals to remind people to maintain safe distances.
  2. **Workplaces:** The project can be deployed in offices, factories, or warehouses to ensure employees adhere to social distancing guidelines.
  3. **Educational Institutions:** Schools, colleges, and universities can utilize this project to promote social distancing among students and staff.
  4. **Healthcare Facilities:** Hospitals, clinics, and waiting areas can implement the system to remind patients and visitors to maintain appropriate distances.
  5. **Retail Stores:** Shops and supermarkets can use the project to encourage safe shopping practices and protect both customers and employees.
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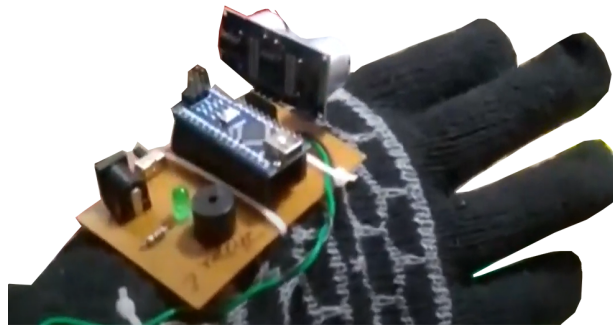
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# Third Eye for Glove



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## Delivery Time

- **Handling Period**

- **Transit Time** :3-5 Days (Approx.)
- **Delivery Time** : Handling Period + Transit Time (4-7 Days Approx.)

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**SKU:** PH\_EP\_002

**Price:** ₹2,464.00 Original price was: ₹2,464.00. ₹1,454.00 Current price is: ₹1,454.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Technology & Innovation](#), [Wearable Technology](#)

**Tags:** [Accessibility technology](#), [Arduino coding](#), [Arduino project for students](#), [Arduino tutorial](#), [Assistive technology](#), [Educational projects](#), [Electronics engineering](#), [Engineering students](#), [Exhibition projects](#), [Innovation for the blind](#), [School projects](#), [Sensors and actuators](#), [Third Eye for the Blind](#), [Visually impaired](#)

## Product Description

### Abstract:

According to estimates from the World Health Organization (WHO) Prevention of Blindness and Deafness Program: About **285 million people** are visually impaired worldwide: 39 million are blind and 246 million have low vision. Now a days there are so many instruments and smart devices for visually impaired peoples for navigation but most of them have certain problems for carrying and the major drawbacks is those need a lot of training to use. So the aim of the project is to develop a cheap and more efficient way to help visually impaired to navigate with greater comfort, speed and confidence. **Existing Systems & their problems:**

1. Blind sticks- May easily crack/break; the stick may get stuck at pavement cracks of different objects.
2. Smart devices (eg: Vision a torch for blinds)- **Cannot be carried easily**, needs a lot of training to use

**Solution:** To solve this problem we are going to make one of the best wearable technologies based innovative device which will detects nearby objects or obstacles and notify with buzzer & vibrators. This devices is called **“Third Eye for blind with Vibrator Glove”** This technology will resolves all the problems of existing technologies. This device will help the blind to navigate without holding a stick. Simply wear it as a

band or cloth and it can function very accurately and they only need a very little training to use it.

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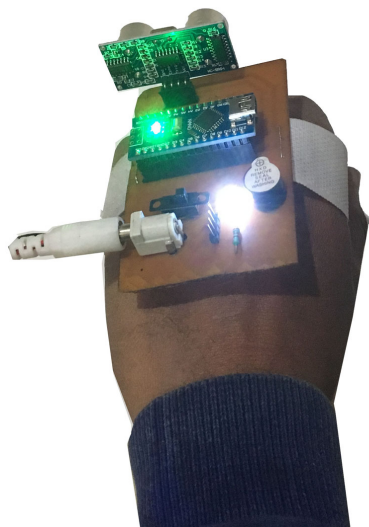
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## Third Eye for Arduino

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**Price:** ~~₹2,320.00~~ Original price was: ₹2,320.00.₹  
1,369.00Current price is: ₹1,369.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Technology & Innovation](#), [Wearable Technology](#)

**Tags:** [Arduino IDE download](#), [Arduino programming tutorial](#), [Arduino project for students](#), [Assistive technology for the visually impaired](#), [Audio feedback device](#), [Electrical engineering project](#), [Electronics engineering project](#), [Engineering student projects](#), [Exhibition project](#), [Obstacle detection device](#), [School project ideas](#), [Third Eye for the Blind](#), [Ultrasonic sensors](#), [Wearable technology](#)

## Product Description

### Abstract:

According to estimates from the World Health Organization (WHO) Prevention of Blindness and Deafness Program: About **285 million people** are visually impaired worldwide: 39 million are blind and 246 million have low vision. Now a days there are so many instruments and smart devices for visually impaired peoples for navigation but most of them have certain problems for carrying and the major drawbacks is those need a lot of training to use. So the aim of the project is to develop a cheap and more efficient way to help visually impaired to navigate with greater comfort, speed and confidence.

### Existing Systems & their problems:

1. Blind sticks- May easily crack/break; the stick may get stuck at pavement cracks of different objects.
2. Smart devices (eg: Vision a torch for blinds)- **Cannot be carried easily**, needs a lot of training to use

### Solution:

To solve this problem we are going to make one of the best wearable technologies based innovative device which will detects nearby objects or obstacles and notify with buzzer & vibrators. This devices is called “**THIRD EYE FOR BLIND PERSON**” This technology will resolves all the problems of existing technologies. This device will help the blind to navigate without holding a stick. Simply wear it as a band or cloth and it can function very accurately and they only need a very little training to use it.

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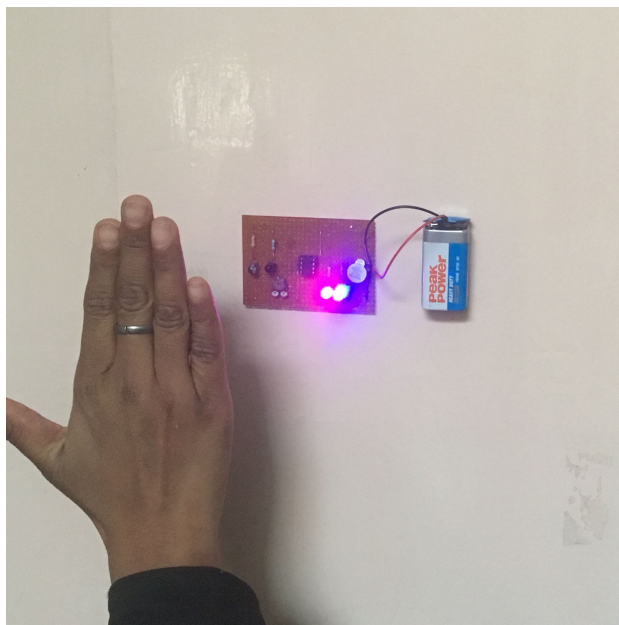
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## Touch less Sensor

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**Price:** ₹400.00 Original price was: ₹400.00. ~~₹236.00~~  
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**Stock:** instock

**Categories:** [Engineering project](#), [Exhibition Models & Inspire Award](#), [IC & Transistor](#), [Mini Project](#), [Projects](#), [Security](#), [Technology & Innovation](#)

**Tags:** [Arduino Project](#), [Contactless Doorbell](#), [DIY electronics](#), [Home Automation](#), [Home Security](#), [Infrared Motion Detection](#), [Internet of Things \(IoT\)](#), [Sensor Technology](#), [Smart Home Project](#), [Touch-Free Doorbell](#), [Touchless Doorbell](#), [Wireless Doorbell](#)

## Product Description

### Introduction:

We all have a doorbell at our homes. When a guest comes to our house, they search for the doorbell switch and then ring it to let us know their presence. If who came to our house and unable to find doorbell, else person is so short then they cannot find the doorbell in this case we need a solution that can find the presence of a person and rings the doorbell automatically. Here we are making an object sensing based “**Touch Less Doorbell**” using infrared transceiver pair and some locally available components. It can detect the presence of a person and then if the person is detected, the doorbell is automatically turned ON when the person is in-front of the door. The touchless doorbell project is designed to provide a contactless alternative for ringing doorbells, eliminating the need for physical buttons or switches. This project employs the LM358 IC, an IR receiver and transmitter pair, and a 10k preset. By utilizing infrared technology, the system detects hand gestures and triggers the doorbell, enhancing convenience and hygiene.

### Aim:

The aim of this project is to develop a touchless doorbell system that enables users to ring the doorbell without physical contact. By using hand gestures to activate the doorbell, this project promotes cleanliness, especially in public spaces where multiple people may use the doorbell.

## Principle:

The touchless doorbell project operates on the principle of infrared sensing. Infrared light is emitted by the IR transmitter and detected by the IR receiver. When an object, such as a hand, interrupts the infrared beam between the transmitter and receiver, the system recognizes the gesture and activates the doorbell.

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## Ultrasonic C

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**SKU:** PH\_EP\_019

**Price:** ₹2,308.00 Original price was: ₹2,308.00. ₹1,362.00 Current price is: ₹1,362.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Projects](#), [Technology & Innovation](#), [Wearable Technology](#)

**Tags:** [Arduino IDE download](#), [Arduino programming tutorial](#), [Arduino project for students](#), [Assistive technology for the visually impaired](#), [Audio feedback device](#), [Electrical engineering project](#), [Electronics engineering project](#), [Engineering student projects](#), [Exhibition project](#), [Obstacle detection device](#), [School project ideas](#), [Third Eye for the Blind](#), [Ultrasonic sensors](#), [Wearable technology](#)

## Product Description

### INTRODUCTION:

According to estimates from the World Health Organization (WHO) Prevention of Blindness and Deafness Program: About **285 million people** are visually impaired worldwide: 39 million are blind and 246 million have low vision. To solve this problem we are going to make one of the best wearable technologies based innovative device which will detects nearby objects or obstacles and notify with buzzer. This devices is called “**Ultrasonic Glasses for the Blind**” Ultrasonic glasses for the blind are a technological solution designed to assist individuals with visual impairments in navigating their surroundings more effectively. The glasses utilize ultrasonic sensors to detect obstacles in the environment and provide sensory feedback, such as vibrations or auditory cues, to help users avoid collisions. This technology aims to enhance the independence and safety of visually impaired individuals by improving their spatial awareness and reducing the risk of accidents.

### PRACTICAL IMPLEMENTATION:

The practical implementation of ultrasonic glasses involves integrating ultrasonic sensors, microcontrollers (such as Arduino Nano), vibrating motors, and buzzers into a wearable device. The ultrasonic sensor detects objects in the user's path by emitting high-frequency sound waves and measuring the time it takes for the waves to bounce back. The Arduino Nano processes this information and triggers the appropriate feedback mechanism, such as vibrating motors to provide tactile cues or buzzers to provide auditory cues. The glasses can be customized to suit individual preferences and needs. They can be designed as a standalone device or integrated into existing glasses frames. The practical implementation also includes optimizing the sensor range, sensitivity, and feedback intensity to ensure accurate obstacle detection and effective communication of information to the user.

### MARKET NEED OF ULTRASONIC GLASSES FOR THE BLIND:

The market need for ultrasonic glasses arises from the challenges faced by visually impaired individuals in their daily lives. People with visual impairments often encounter difficulties in navigating unfamiliar environments, detecting obstacles, and maintaining a sense of spatial awareness. Traditional mobility aids, such as canes or guide dogs, have limitations and may not provide comprehensive assistance in obstacle avoidance.

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## Water pollution Model

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**SKU:** PH\_SEM\_16

**Price:** ₹644.00 Original price was: ₹644.00. ₹380.00  
Current price is: ₹380.00.

**Stock:** instock

**Categories:** [Environment & Pollution](#), [Exhibition Models & Inspire Award](#), [Technology & Innovation](#)

**Tags:** [school science project](#), [science exhibition model](#), [security system](#)

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## Wind Energy Garden Light

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**SKU:** PH\_SEM\_10

**Price:** ~~₹848.00~~ Original price was: ₹848.00. ₹500.00  
Current price is: ₹500.00.

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