



## Anti-Sleep and safety - DIY

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### Highlights

#### Branding Free Project

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#### Documentation

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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.

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**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

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### **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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### **Disclaimer:**

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## Support

- Demo Video – **Embedded below**
- Technical Support – WhatsApp@9109087333
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**SKU:** PH\_EPK\_003

**Price:** ₹3,200.00 Original price was: ₹3,200.00. ₹1,599.00 Current price is: ₹1,599.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project kit \(EPK\)](#), [Hobby DIY kits](#)

**Tags:** [Arduino Development](#), [Arduino Nano](#), [Arduino Projects](#), [Distance Measurement](#), [Distance Meter](#), [DIY distance measurement with Arduino](#), [DIY electronics](#), [DIY Kits](#), [Electronic Gadgets](#), [Electronics Accessories](#), [Engineering Projects](#), [Measurement Tools](#), [Prototyping Tools](#), [Robotics Components](#), [Sensor-based Projects](#), [Ultrasonic Sensor](#)

## 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

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## INTRODUCTION:

The techniques of distance measurement using ultrasonic in air include continuous wave and pulse echo technique. In the pulse echo method, a burst of pulses is sent through the transmission medium and is reflected by an object kept at specified distance. The time taken for the pulse to propagate from transmitter to receiver is proportional to the distance of object. For contact less measurement of distance, the device has to rely on the target to reflect the pulse back to itself. The target needs to have a proper orientation that is it needs to be perpendicular to the direction of propagation of the pulses. The amplitude of the received signal gets significantly attenuated and is a function of nature of the medium and the distance between the transmitter and target. The pulse echo or time-of-flight method of range measurement is subject to high levels of signal attenuation when used in an air medium, thus limiting its distance range. Ultrasonic sensors are great tools to measure distance without actual contact and used at several places like water level measurement, distance measurement etc. This is an efficient way to measure small distances precisely. In this project we have used

an **Ultrasonic Sensor** to determine the distance of an obstacle from the sensor. Basic principal of ultrasonic distance measurement is based on ECHO. When sound waves are transmitted in environment then waves are return back to origin as ECHO after striking on the obstacle. So we only need to calculate the travelling time of both sounds means outgoing time and returning time to origin after striking on the obstacle. As speed of the sound is known to us, after some calculation we can calculate the distance.

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**Working Video:**

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- Tested Project

## Documentation

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

## Support

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

**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](#) Buy Ready to Use Kit.

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**SKU:** PH\_EPK\_030

**Price:** ~~₹4,000.00~~ Original price was: ₹4,000.00. ₹1,999.00 Current price is: ₹1,999.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project kit \(EPK\)](#), [Hobby DIY kits](#)

## Product Description

### Kit Includes :

- Electronic Parts (listed in product image)
- Circuit Diagram
- Project Code
- Printable Hardcopy of PCB Layout for DIRECT PRINT ( Thermal Transfer)
- 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 ( Download Now )

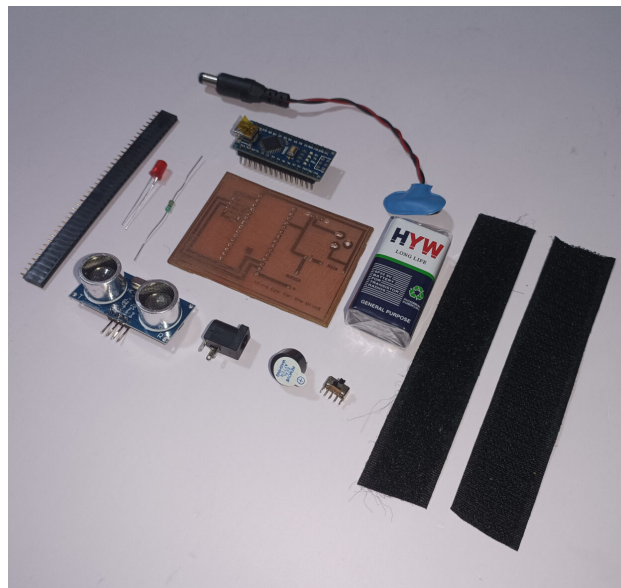
## Skills:

1. Arduino Programming
2. Soldering
3. Circuit Testing

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## Third Eye for Arduino-DIY

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**SKU:** PH\_EPK\_001

**Price:** ₹3,000.00 Original price was: ₹3,000.00. ₹  
1,299.00 Current price is: ₹1,299.00.

**Stock:** instock

**Categories:** [Arduino](#), [Engineering project kit \(EPK\)](#), [Hobby DIY kits](#), [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

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## Prerequisite Requirements

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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:

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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