About the Spoken Tutorial project

- Self explanatory - uses simple language
- Audio-video - uses multisensory approach
- Small duration - has better retention
- Learner-centered - learn at your own pace
- Learning by doing - learn and practice
- Simultaneous empowerment - learn a new FLOSS

Target Audience

- Students
- Teachers
- Teacher educators

Workshop

The Spoken Tutorial Project Team conducts workshops on ExpEYES and other FLOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please write to

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Spoken Tutorial

https://spoken-tutorial.org

ExpEYES

Introduction
- ExpEYES stands for Experiments for Young Engineers and Scientists.
- ExpEYES Junior device is used to perform basic physics and electronic experiments.
- ExpEYES Junior device looks like this.
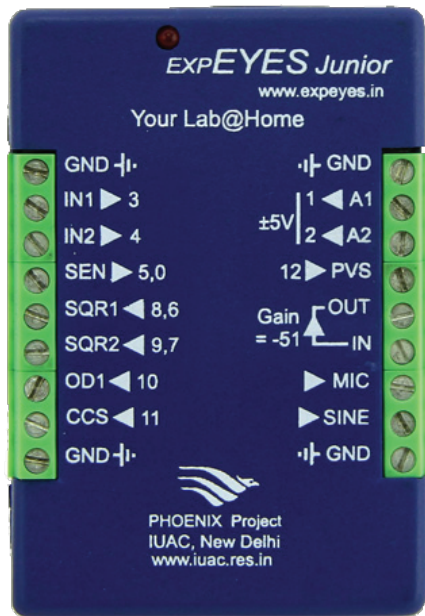
Software works on GNU/Linux, Netbook and Android.

ExpEYES is designed and developed by **PHOENIX** project of Inter-University Accelerator Centre, New Delhi. Information about ExpEYES Junior is available at http://expeyes.in/ejun.html

Features of ExpEYES Junior
- ExpEYES device can measure voltages, generate plots and waveforms.
- It is low cost and gives accurate measurements.
- Device has Built-in Signal Generator and Oscilloscope.
- It has 12 bit input/output analog resolution.
- It has Microsecond timing resolution. Software is available on Bootable ISO image.

Hardware Specifications of ExpEYES Junior
- Hardware design of ExpEYES Junior simple and user friendly
- Device can be connected to the system through an USB port.
- It is compact with dimensions 8.6x5.8x1.6 cm.
- It weighs around 60g.
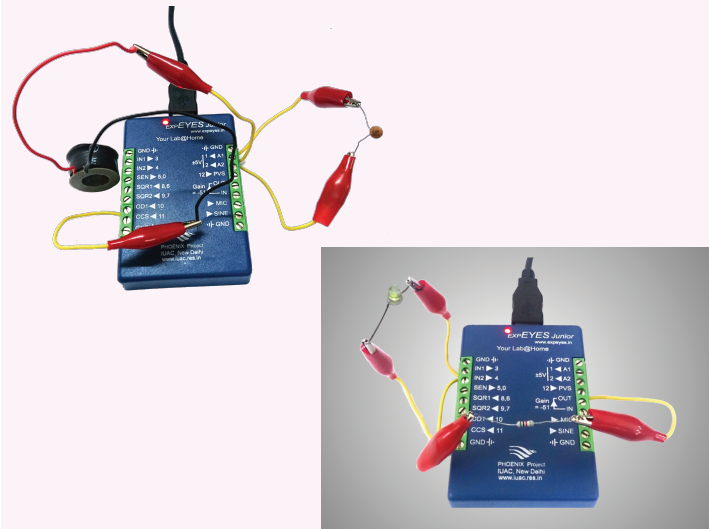
Software Specifications of ExpEYES Junior
- Software of ExpEYES Junior is coded in Python language.
- It is free and open source.
- It is distributed under GNU General Public License.

Benefits
- Python terminal can be used to show the experimental results
- ExpEYES Junior supports a wide range of experiments suitable for Higher Secondary, Polytechnic, ITI and Under graduate (Physics, Electrical and Electronics) courses.

Uses
- Device can be used in topics such as: Electricity, Sound, Magnetism, Light, Electronics and others.
- Using ExpEYES Junior we can perform experiments such as simple circuit, conductivity, sound properties, magnetic properties, Diode, LED and Transistor CE properties.