



**Specifications:-**

- Virtual Laboratory Software
- 3 Models :
  1. Virtual work bench (VWB) : PC based H/W control measurement experimentation 2
  2. E Lab (EL) : Animation of existing experiment procedures for various panels on Labview platform.
  3. Circuit Simulation & PCB laout Software : eSim: Simulation of various circuits- analog, op-amp, digital, power etc., KiCAD: helps to draw schematic & PCB layout

Model	Virtual work bench (VWB)	E Lab (EL)	Circuit Simulation & PCB layout Software
Application	PC based HW control measurement experimentation	Animation of existing experiment procedures for various panels on Labview platform.	<ul style="list-style-type: none"> <li>• eSim: Simulation of various circuits- analog, op-amp, digital, power etc.</li> <li>• KiCAD: helps to draw schematic &amp; PCB</li> </ul>
OS Platform	PC with WIN 7/8/WIN10	PC with WIN 7/8/WIN10	PC with WIN 7/8/10
Interface	USB / serial interfaced using external CIA card and/or modbus based AC measurement meters. Uses USB I/O module enclosed in 25 pin D (F) shell, Supports 4 (32)Als & 1(4) AOs (max) restricted by external hardware availability on CIA/CIP equivalent/h/w	<ul style="list-style-type: none"> <li>• Installer created in Labview with run time engine.</li> <li>• CD key needed</li> </ul>	<ul style="list-style-type: none"> <li>• Application exe can run from any drive</li> <li>• Accompanied with user friendly manual showing various model/panel based simulated experiments &amp; results compared with lab experiment results.</li> <li>• PCB layout operations guidelines &amp; DRC for constraints</li> <li>• USB key needed.</li> </ul>
Virtual Instrumentation Displays/ Graphs	Online as well as offline time series (XT) or Cartesian (XY) or Polar Graph, DPM, Data logger with calculator <b>Function Generator:</b> Sine/Triangular/ Square wave with frequency 0.001 Hz to 10 Hz, Settable Amplitude (0 to 100%) Duty cycle setting , Offset setting etc.	CRO, function generator, Power supply, and toggle switches, LEDs, DMM Graph, Table fill etc.	<ul style="list-style-type: none"> <li>• Oscilloscope, can measure node voltages using Multimeter, option of Python graph window</li> <li>• 3D view of PCB components</li> </ul>

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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