

Cutting-Edge Instruments for Advanced Research and Development

Sr. No.	Name of Instrument	OEM	Key Specifications
1	Digital Oscilloscope	Scientech Company	30 MHz, Microcontroller-based with color LCD, Source: CH1 & CH2, Main Voltage: 230V, Slope: Positive, Negative
2	Digital Multimeter	FLUKE	Measures DC/AC, milli voltage, AC/DC current, resistance, continuity, diode, and capacitor. Maximum voltage range: 0-600V
3	Digital Clamp Meter	METRAVI	Measures current via clamping live wires, maximum voltage range: 0-600V, NCV feature, diode, resistance, and continuity testing, data hold function
4	Digital Multimeter	RISHABH	Automatic Terminal Blocking System, Automatic Data Hold, measures DC/AC voltage/current, milliampere current. Maximum voltage range: 0-600V
5	Digital Oscilloscope	RIGOL	100 MHz, Dual 2 Channels with color LCD, Main Voltage: 230V, Output Waveform: Sine, Triangular, Square wave
6	Digital Oscilloscope	SIGLENT	100 MHz, 4 Channel, 2Gs/s, 12-bit Waveform Capture Rate up to 500,000 wfm/s (Sequence Mode), Touchscreen, mouse/keyboard support, measures diode, resistance, continuity
7	Digital Tachometer	INSTRUKART	Measures Speed (RPM) from 2.5 to 999.9 RPM for rotational parts. Auto memory for last value with a turn-button display feature
8	Differential Voltage Probe	SALICON	5 MHz, Input Impedance: 16 M Ω 1.5 pF / 8 M Ω 3 pF
9	DSP Kits Interfacing with MATLAB	EDUTECH	DSP CPU target boards with TMS320F28335, buffered output, USB flashing, UART, CAN, 2C, SP ports, debugging support, MATLAB interface, enclosed rectifier & inverter stack

Sr. No.	Name of Instrument	OEM	Key Specifications
10	NPC IGBT Inverter Stack	V.P ELECTRONICS	230V, 50 Hz, IGBT-based with three/four IGBT gate module (inverter leg), anti-parallel diodes, and optional brake chopper module
11	2-Level IGBT Inverter Stack	V.P ELECTRONICS	DSP CPU target boards with TMS320F28335, buffered output, USB flashing, UART, CAN, 2C, SP ports, debugging support, MATLAB interface
12	Auto Transformer	POWER GUN SYSTEMS PVT. LTD.	15 KVA, 25A, 3P-3P, 0-415 VAC
13	LCR Meter	METRAVI	Measures inductance (L), capacitance (C), and resistance (R) for advanced testing in research and development.
14	Soldering Station		

This layout emphasizes **high-end technology** and **cutting-edge features**, perfectly aligned for the **EVOLT Lab's focus on innovation and research**.

Cutting-Edge Software for Advanced Research and Development

Sr. No.	Name of Software
1	MATLAB
2	ETAP- Electrical Transient Analyzer Program
3	LTspice