



Product Overview

The **Electronics Tool Set with Microcontroller Practice Kit** is a comprehensive solution designed for electronics laboratories, technical training institutes, and engineering education programs. The system integrates a **soldering tool set, electronic tool kit, and microcontroller practice kit based on an Arduino Uno R3-compatible board or equivalent**, enabling hands-on learning in soldering, circuit development, measurement, troubleshooting, and embedded system programming.

The soldering system adopts a **dual power configuration**, enabling **two-step switching between high and low power** for flexible operation across different soldering applications. A **ceramic heater soldering iron** is used to ensure improved workability, excellent thermal conductivity, and high insulation performance.

The kit is designed for convenience and portability, featuring a **safety cover for the soldering iron**, along with **portable storage solutions including a multi tool box, component storage box, and portable pouch**. The set includes **13 essential engineering tools**, making it suitable for practical training and field work.

Key Features

- Dual power system allowing **two-step switching between high and low power**
- **Ceramic heater soldering iron** for improved performance
- Excellent **thermal conductivity and insulation**
- **Safety cover** for safe storage and portability
- Includes **13 essential tools for engineers**
- Comprehensive **soldering and electronic tool set**
- Integrated **microcontroller training kit**

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



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- Based on **Arduino Uno R3 compatible board or equivalent**
- Suitable for **electronics laboratories, training centers, and engineering education**
- Supplied with **portable storage box and pouch**

Technical Specifications

1. Soldering Set Components

Sl. No.	Component	Quantity
1	Ceramic Soldering Iron (200 W)	1 ea
2	Soldering Iron Stand	1 ea
3	Solder Wire (50 g)	1 ea
4	Desoldering Pump	1 ea
5	Soldering Sponge	1 ea
6	Enamelled Copper Wire (0.1 mm)	1 ea
7	Soldering Paste	1 ea
8	Pliers (approx. 12 cm)	1 ea
9	Straight Tweezers (approx. 14 cm)	1 ea
10	Spatula	1 ea
11	Voltage Tester Screwdriver	1 ea
12	Wire Stripper	1 ea
13	Magnetic Screwdrivers (approx. 12 cm, 17 cm) – +, –	1 ea each
14	Alligator Clips (approx. 2.8 cm) – Red	1 ea
15	Alligator Clips (approx. 2.8 cm) – Black	1 ea
16	Digital Multi-meter	1 ea
17	Multi-meter Probe	1 ea
18	Multi Tool Box (320 × 140 × 170 (W × D × H) mm or more)	1 ea

2. Electronic Tool Set Components

Sl. No.	Component	Quantity
1	Wire Stripper	1 ea
2	Mini Nipper	1 ea
3	Mini Long Nose Pliers	1 ea
4	Two-Color Power Cable Kit	1 ea
5	Digital Multi-meter	1 ea
6	Straight Tweezers	1 ea
7	Precision Double-Ended Screwdriver	1 ea

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Sl. No.	Component	Quantity
8	Digital Caliper (100 mm or more)	1 ea
9	Measuring Ruler	1 ea
10	Cutter Knife	1 ea
11	9V Battery	1 ea
12	Insulating Tape	1 ea
13	Portable Pouch	1 ea

3. Microcontroller Practice Kit Components

Sl. No.	Component	Quantity
1	Arduino Uno R3	1 ea or equivalent
2	Arduino Power Cable	1 ea
3	Large Breadboard	1 ea
4	LED (Red)	3 ea
5	LED (Yellow)	3 ea
6	LED (Blue)	3 ea
7	Resistor Package (1 kΩ, 10 kΩ, etc.)	Total 18 ea
8	Stepper Motor	1 ea
9	8 × 8 Dot Matrix	1 ea
10	Remote Control	1 ea
11	9V Battery Holder	1 ea
12	Jumper Cables	1 Set
13	Buzzer (Active Type)	1 ea
14	Buzzer (Passive Type)	1 ea
15	1602 LCD	1 ea
16	Push Switches (with caps)	4 ea
17	Infrared Sensor	1 ea
18	Electrolytic Capacitors	2 ea
19	Transistor	1 ea
20	CDS Sensors	3 ea
21	7-Segment Display	1 ea
22	Variable Resistor	1 ea
23	Component Storage Box	1 ea

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