



System Overview

The basic version includes a **base board** designed for studying fundamental electronic functions. It enables hands-on investigation of key analog electronics concepts and circuits, including:

Features :

- **Rectifier bridges:** Half-wave, Full-wave, Graetz bridge
- **Filtering and voltage regulation** using transistors
- **Transistor-based circuits:** Amplifiers, Multivibrators
- **Operational amplifier applications:** Filters, Integrators, Adders, Differentiators
- **Reference waveforms:** Sine and Square Signal

Included Components

- **Rectification & Regulation:**
 - 4 rectifier diodes
 - 3 polarized filtering capacitors
 - 1 Zener diode
 - 1 signal diode
 - 3 power resistors (1 W) for load

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



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- 1 Ohm shunt for current observation
- **Transistors:**
 - 1 signal transistor (1N222)
 - 1 power transistor (BDX33 on heatsink)
- **Operational Amplifier Circuits:**
 - 2 pre-wired operational amplifiers for building:
 - Comparators
 - Amplifiers
 - Integrators
 - Differentiators
 - Low-pass, high-pass, and band-pass filters
- **Passive Components:**
 - 1 potentiometer: 100 k Ω
 - 4 resistors ($\frac{1}{4}$ W)
 - 4 non-polarized capacitors
- **Custom Component Slots:**
 - 4 free component slots for additional components (inductors, resistors, capacitors)
- **Measurement Circuits:**
 - 2 differential input circuits for current/voltage observation via standard oscilloscope
- **Waveform Generator:**
 - Built-in signal generator (sine, square, triangle)
 - Frequency range: 10 Hz to 1 MHz

Integrated Power Supply (with external 15 VAC transformer)

- Protected 15 VAC output
- ± 12 V DC regulated outputs
- Individually adjustable ± 0 to ± 10 V outputs

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Included Accessories

- 3 BNC to 2 mm adapters
- 3 dual-socket 2 mm to 4 mm adapters
- **Cable Set:**
 - 10 × 2 mm yellow cables, 10 cm, with back connection
 - 10 × 2 mm red cables, 25 cm, with back connection
 - 10 × 2 mm blue cables, 50 cm, with back connection
- 1 × black BNC/BNC male-male cable, 1 meter, 50 Ohms
- Power Supply: 12 VAC, 1.6 A

Documentation

- **Instructor's Manual:**
Includes laboratory exercises and complete solutions
- **Student's Manual:**
Contains course summaries and lab questions

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