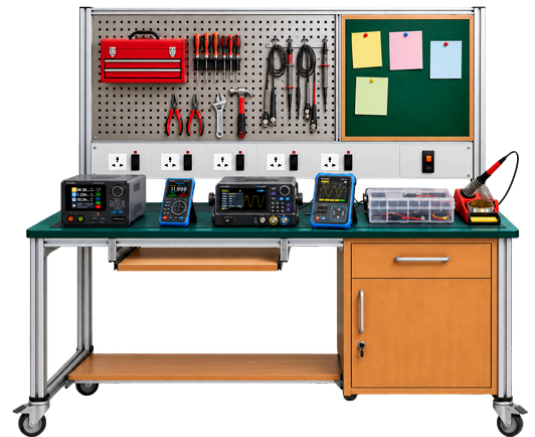


WB-EL

Electronic Workbench



FEATURES

- Aluminium extrusion Frame
- Smooth surface with antistatic pad
- Movable caster wheel
- Circuit breakers for Protection
- Power supply sockets for 5 and 15 Amps
- Required test and measuring instruments

SPECIFICATIONS

MECHANICAL AND ELECTRICAL SPECIFICATIONS

- Dimensions : 1500mm x 750mm x 750mm
- 25mm Table Top
- 30mm x 30mm aluminium extrusion
- Lockable castor wheels
- Cupboard with shelf : 450mm x 450mm x 450mm
- Drawer : 450mm x 450mm x 150 mm
- Computer Keyboard drawer under the table 50mm x 380mm
- Electric Panel height from table top 100mm
- 5 Sockets with circuit breaker
- Back panel 900mm above the table top
- Perforated sheet panel for hanging tools 600mm
- Baseplate for Computer 1000mm x 375mm

TECHNICAL SPECIFICATIONS

DC Intelligent Digital Control Power Supply



Output

- Voltage: DC 0~36V

- Current: 0~8A
- Power: 0~288W

Setting Resolution

- Voltage: 0.01V
- Current: 0.001A

Readback Value Accuracy

- Voltage: $\pm (0.3\% + 3 \text{ bits})$
- Current: $\pm (0.15\% + 5 \text{ bits})$
- Input: AC 100-240V (50/60HZ)
- Output Channels: 3
- Output interface: Terminals $\pm$ & USB A & Type C
- Operating Environment: $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$, 0%~75%RH
- Load Regulation Rate: $\pm (0.2\% + 2 \text{ bits})$
- Cooling Solution: Automatic fan activation triggered by temperature detection

8 Major Protections

- Overvoltage: 0~36V
- Overcurrent: 0~8.2A
- Overpower: 0W~295.2W
- Overtemperature: 0~99°C
- Undervoltage: 0~36V
- Short circuit: $\checkmark$
- Output reverse injection: $\checkmark$
- Input reverse connection: $\checkmark$

2CH Function Signal Generator



Arbitrary Waveform Generator

- Max Frequency: 60 MHz
- Channels: 2CH

- Sample Rate: 200 MSa/s
- Vertical Resolution: 14-bit (including sign)
- Frequency Resolution: 1 μ Hz
- Amplitude: 2 mVpp ~ 20 Vpp (High-Z, <10 MHz) / 2 mVpp ~ 10 Vpp (High-Z, >10 MHz)
- 1 mVpp ~ 10 Vpp (50 Ω , <10 MHz) / 1 mVpp ~ 5 Vpp (50 Ω , >10 MHz)
- Offset: High-Z: -9.999V~9.999V
- Output Waveforms: Sine, Square, Ramp, Pulse, Triangle, Noise, DC, Arbitrary
- Memory Depth: 4 kpts
- Non-Volatile Storage: 24 Waveforms
- THD: <0.2% (Sine, DC ~ 20 kHz, 1Vpp)
- Amplitude Flatness (relative to 1 kHz sine, 1 Vpp / 50 Ω):
Typical (Sine, 2.0 Vpp) $\leq$ 100kHz: $\pm$ 0.1dB,
 $\leq$ 20MHz: $\pm$ 0.3dB $\leq$ 30MHz: $\pm$ 0.5dB, $\leq$ 40MHz: $\pm$ 0.6dB,
 $\leq$ 60MHz: $\pm$ 0.8dB
- Rise / Fall Time: <20ns (typical)
- Duty Cycle: 0.01% ~ 99.99% adjustable (Square)
- Accuracy (1 kHz Sine): $\pm$ (Set Value x 5% + 2 mVpp)
- Jitter: DDS Mode: 5 ns $\pm$ 150 ps, Point-by-Point Mode: $\pm$ 150 ps
- Output Impedance: 50 Ω (typical)
- Operating Modes: Gated, Continuous, Modulate, Frequency Sweep
- Sweep Types: Linear, Logarithmic
- Modulation Types: AM, FM, PM, FSK, ASK, PSK
- Output Modes: DDS, Point-by-Point
- Interfaces: USB Device, Type-C Power Input

Frequency Counter

- Input Level: TTL compatible
- Output Frequency Range: 100 mHz ~ 100 MHz
- Accuracy: $\pm$ 51 ppm
- Frequency Resolution: 7 digits
- Coupling: DC

Bench-top 2 In 1 Oscilloscope



Oscilloscope

- Bandwidth: 100MHz
- Channels: 2CH
- Sampling Rate: 1GSa/s
- Rise Time: <3ns
- Memory Depth: 240kpts
- Waveform Capture Rate: 50000wfms/s

- Vertical Sensitivity: 50mV/div-50V/div
- Input Impedance: 1M Ω
- Time Base Scale: 10ns/div-50s/div
- Trigger Types: Auto/Normal/Single
- Auto Measurements: Vpp, Max, Min, RMS(Vrms), Avg(Vavg), Peak, Freq, Cycle, Time+, Time-, Duty+, Duty- 12 types

Waveform Generator

- Max Frequency: 10MHz
- Channels: 1CH
- Vertical Resolution: 1Hz
- Modulations: Capture waveform as a source to output, 1MHz 2.4VPP
- Frequency Characteristics: Sin: 10MHz 2.5VPP
- Square: 2MHz 2.5VPP
- Triangle: 2MHz 2.5VPP
- Sawtooth: 2MHz 2.5VPP
- Ladder: 2MHz 2.5VPP
- Others: 2MHz 2.5VPP
- Waveforms: sine, square, triangle, sawtooth, anti sawtooth, ladder wave, half wave, full wave, exponential wave, logarithmic wave, log-periodic wave, square root wave, multi-tone signal, sync pulse wave; 14 types

3 In 1 Multifunction Multimeter Oscilloscope



Digital Multimeter

- Overvoltage Category: CAT IV 600V/CAT III 1000V
- Display Count: 20000
- DC Voltage (V): 1.9999V / 19.999V / 199.99V / 1000V
Accuracy: $\pm$ (0.5%+3)
- AC Voltage (V): 1.9999V / 19.999V / 199.99V / 750.0V
Accuracy: $\pm$ (1%+3)
- DC Current (A): 19.999mA / 199.99mA / 1.9999A / 9.999A
Accuracy: $\pm$ (1.2%+3)
- AC current (A): 19.999mA / 199.99mA / 1.9999A / 9.999A
Accuracy: $\pm$ (1.5%+3)
- Resistance (Ω): 19.999 Ω / 1.9999k Ω / 19.999k Ω / 1.9999M Ω / 19.99M Ω
Accuracy: $\pm$ (0.5%+3)
- Capacitance (F):
1.9999nF/19.999nF/199.99nF/9.999 μ F/99.99 μ F/999.9 μ F/
9.999mF Accuracy: $\pm$ (2.0%+5)
- Frequency (Hz):
9.999mHz/99.99mHz/999.9mHz/9.999Hz/99.99Hz/999.9Hz/9.9999Hz
Accuracy: $\pm$ (0.1%+2)

- Temperature (°C): (-55~1300°C)/(-67~2372°F)
Accuracy: $\pm (2.5\%+5)$
- Diode: ✓
- Continuity Test: ✓
- Line: ✓

Oscilloscope

- Bandwidth: 10MHz
- Channels: 1CH
- Sampling Rate: 48MSa/s
- Time Base Scale: 50ns/div~20s/div
- Vertical Sensitivity: 10mV/div~10V/div(x1)
- Input Impedance: 1M Ω
- Trigger Types: Auto/Normal/Single
- Auto Measurements: Max, Min, Avg, RMS, VPP, Amp, Freq, Period, Duty Cycle, Width; 10 types

Waveform Generator

- Max frequency: 50KHz
- Channels: 1CH
- Waveform Amplitude: 0.1V-3V
- Square Duty Cycle: 0-100% (Square & Sawtooth adjustable)
- Waveforms: sine wave, square wave, sawtooth wave, half wave, full wave, ladder wave, anti-ladder wave, exponential rise, exponential fall, DC, multitone, sinc pulse, lorentz wave, 13 types

Temperature Controlled Soldering Station



- Power 90 Watt ,
- Input Supply : 230VAC , 50 Hz

Electronic Tool Kit



- Soldering Iron with stand, Soldering Paste, Soldering Wire, Desoldering Wick, Desoldering Pump, ESD Brush,

- Line Tester, Electrical Tape, Wire Cutter, Wire Stripper, Tweezer, Sponge, Flusk, Screw driver Spectrum

Mechanical Tool Kit



- Tool Box / Tool Storage Case, Socket Set with Ratchet Handle, Socket Bits, Extension Rods, Ratchet Wrench, Hex Key Set (Allen Keys), Combination Spanner Set, Adjustable Wrench Set, Pipe Wrench, Chain Pipe Wrench, Combination Pliers, Long Nose Pliers, Diagonal, Cutting Pliers, Water Pump Pliers, Locking Pliers, Hacksaw Frame with Blade, Tube Cutter, Pipe Cutter, Utility Knife / Safety Knife, Claw Hammer, Rubber Mallet, Flat Files, Round Files, Metal Punch Set, Chisel Set, Screwdriver Set, Flat Head Screwdriver, Phillips Head Screwdriver, Tape Measure, Spirit Level, Wire Brush, Tin Snips / Metal Cutting Shears, PVC Pipe Cutter, Open End Spanner Set, Ring Spanner Set, Adjustable Pipe Wrench, Precision Bit Set, Measuring Scale / Steel Ruler.

*Image shown is for reference only and does not represent the actual workbench configuration or design.