

## Measurement device calibration trolley with calibration and database software



Workstation Frames		
<b>MOBILELAB4</b>	Mobilelab electric trolley, 4 levels	1 x
Equipment Panels		
<b>DEFAULT_MOBILELAB4</b>	Mobilelab default panel	1 x
Power Supply Units		
<b>(S1) SU1</b>	1-phase supply unit, 230 V	1 x
Modules		
<b>(1) M143D</b>	Multifunction Calibrator	1 x
<b>(2) ELPSL2</b>	1-phase schuko socket outlets, 2 pcs	1 x

(3) TBS1052C	Digital oscilloscope, 50 MHz, 1 GS/s, 2 channels, education model	1 x
(4) AFG1022	Arbitrary function generator, 25 MHz	1 x
(5) ACP40	1 phase programmable AC power supply, 0-250 V, 0-4 A	1 x
(6) DCACPX400S	Variable DC power supply, 0-60 V, 20 A, 420 W	1 x
(7) STRBOX375	Storage box for the device panel, 375 mm	1 x
<b>Accessories</b>		
WVK821465	Perforated tool cabinet, M750, 720 x 255 x 300 mm	1 x

## MOBILELAB4 Mobilelab trolley

- ESD-painted steel construction
- 4 wheels, diameter 80 mm, two with brakes
- Handle for easy moving of the trolley
- Built-in device panel for integrated electrical equipment
- Device panel is modular: devices can be easily added
- Integrated modules are covered with polyester film to ensure long lifetime for the markings in the front panel
- 4 levels for devices, max. 11 full modules
- 2 pcs sockets at the back
- Perforated upright tubes for fastening accessories to different heights
- Versatile and adjustable accessories enable ergonomic and practical working environment
- Dimensions: 780(W) x 720(D) x 1630(H) mm



## SU1 1-phase supply unit

- Operating voltage: 230 V ± 10 % AC, 50-60 Hz
- Main switch for the workstation with START position
- Green indicator light
- Integrated emergency switch, reset from the main switch
- Automatic restart prevention system e.g. after power failure
- 16 A thermal overload protector
- Fault current protection 0.03 A for all devices connected to the supply unit
- Earth terminal screw
- Outlets for the device modules
- Dimensions: ½-module, 125(W) x 200(H) mm





## ELPSL2 1-phase socket outlets

- 2 pcs earthed schuko socket outlets
- Dimensions: ¼-module, 62.5(W) x 200(H) mm



## TBS1052C Digital storage oscilloscope

- Bandwidth: 50 MHz
- 2 channels
- Sample rate (each channel): 1 GS/s
- Record length (each channel): 20 k points
- Vertical resolution: 8 bits
- Vertical sensitivity: 1 mV - 10 V / DIV
- Time base range (s/div): 2 ns - 100 s
- 7 inch WVGA (800X480) Active TFT Color Display
- 32 automated measurements
- Dual window FFT, simultaneously monitors both the time and frequency domains
- Integrated Courseware feature: Lab content can be loaded directly onto the oscilloscope, Students can review lab content, perform step-by-step instructions, record lab results and create lab reports all on the scope
- Dual channel frequency counter
- Zoom Function
- Advanced triggers including pulse and line-selectable video triggers
- Autoset and signal auto-ranging
- Autoset enable/disable feature with password protection
- USB 2.0 host port on the front panel for quick and easy data storage
- USB 2.0 device port on rear panel for easy connection to a PC
- Multiple language user interface
- Dimensions: 1 ¼ module, 437.5(W) x 200(H) mm
- Standard accessories: passive probes (one per channel), OpenChoice software, Traceable certificate of calibration - NIM/NIST, CD including: Courseware Editor software, Example Courseware labs, oscilloscope tutorials



## AFG1022 Arbitrary function generator

- Dual-channel, 25 MHz sine waveforms, 12.5 MHz square waveforms
- 14 bits, 125 MS/s arbitrary waveforms with 8 k points record length
- Display: 3.95-inch, resolution 480 by 320, colors 65,536
- Waveforms Sine, Square, Pulse, Ramp, Noise, and 45 frequently used arbitrary waveforms
- Amplitude 1 mVp-p to 10 Vp-p into 50  $\Omega$  loads
- Continuous, sweeping, burst, and modulation modes (AM, FM, PM, ASK, FSK, PSK, PWM)
- Frequency setting resolution: 1  $\mu$ Hz or 12 digits
- Arbitrary waveform vertical resolution: 14 bits
- 64-MByte internal non-volatile memory for arbitrary waveform storage
- Standard USB host/device for memory expansion and remote control
- Free ArbExpress makes user defined waveforms editing extremely easy through an external USB memory stick
- Standard accessories: Safety and Compliance Instructions, Documentation CD, Certificate of calibration; USB cable x 1, Type A to Type B, BNC cable x 2, Fuse, cartridge (5 x 20 mm, 0.5 A, 250V, time-delay) Fuse, cartridge (5 x 20 mm, 1 A, 250 V, time-delay)
- Dimensions: full module, 250(W) x 200(H) mm



## ACP40 Programmable 1-ph. AC power supply

- Output values: 0-250 V, 0-4 A, max. 900 VA
- Galvanic isolation
- Digital display for viewing output voltage, current and settings
- Setting accuracy and display resolution: 1 V / 0.1 A
- Measuring accuracy: voltage  $\pm$  2 V, current  $\pm$  0.1 A
- Overvoltage protection setting 0-250 V, overcurrent protection setting 0-4 A with OFF-position
- Short-circuit protected
- Output from 4 mm safety terminals or from unearthed socket (one output active at a time)
- Output ON / OFF -buttons with indicator lights
- Automatic self-test and line voltage measurement when starting
- Stability feature for stabilizing output voltage
- Firmware update possibility
- Dimensions: 1/2-module, 125(W) x 200(H) mm



## DCACPX400S Adjustable DC power supply

- Output values: 0-60 V, 0-20 A, 420 W
- PowerFlex design gives variable voltage and current combinations within a maximum power range
- PowerFlex or fixed-range operation plus custom limits
- Constant voltage or constant current operation
- Variable OVP trips
- True analogue controls
- Voltage Setting: By coarse and fine controls
- Current Setting: By single logarithmic control
- Settings locking
- Independent digital voltage and current meters for each output with 4 digit resolution
- Voltage meter:
  - Resolution: 10 mV
  - Accuracy: 0.1 % of reading  $\pm$  2 digits
- Current Meter:
  - Resolution: 10 mA
  - Accuracy: 0.3 % of reading  $\pm$  20 mA
- Ripple & noise: Typically < 3 mV rms (CV mode)
- Switchable local or remote sensing
- View Settings
- LED indication of Output On, V/I Limits, CV, CI, Power Limit
- Silent fan-free cooling
- DC output on/off switch
- All outputs are intrinsically short circuit proof, and are protected against external voltages and reverse currents
- Output terminals: Universal 4mm safety binding posts on 19mm (0.75") spacing. Terminals can accept fixed shroud 4 mm plugs, standard 4 mm plugs, fork terminals and bare wires
- AC Input: 110 to 240 volts  $\pm$  10 % 50/60Hz
- Dimensions: 1/2 module, 125(W) x 200(H) mm



## STRBOX375 Storage box

- Integrated storage box for the device panel
- Powder-painted steel frame
- Suitable for storing training sets, test leads etc.
- Internal dimensions: 360(W) x 380(D) x 180(H) mm



## WVK821465 Perforated tool cabinet

- Body made of powder painted steel
- 2 doors, lockable
- Perforated walls for fixing accessories
- Dimensions: 720(W) x 255(D) x 300(H) mm

