MULTIPURPOSE LABORATORIES FOR ELECTRONICS

- Modern multipurpose laboratory for 16 students - from workshop to theory class by press of button.
- Operation and management of laboratory by the versatile TeklabNetPro software.
- Students work with uniform user interfaces, featuring e.g. possibility to save measurement values.
Networking laboratories adapt to different study lines

Delivery contents of ELAB1 and ELAB2 electronics laboratories

A Student’s workstation ELAB1STW and ELAB2STW (16/8 pcs)
- Motorized multi-function workstation EHELP4L20: 2000 x 1062 mm, fitted with the devices on page 3
- Work chair SCCATKJESD (polyurethane, gas spring, ESD) (22 pcs/ELAB2STW)
- Drawer trolley WEV60635022 + tool kit serie TKSARJA6 for drawer
- CPU rack, lockable with keyboard tray 230 x 430 x 430 mm CPUULKIT4
- ESD-wrist strap, grounding set and connection box ESD1-HELP
- safety test lead set, red/ black 1m, 1 mm², 20 A, 1000 V JTESTSET1

B Instructor’s workstation ELAB1TEW and ELAB2TEW (1 pc)
- Instructor’s workstation 1800 mm ETABSYS18 (1800 x 900 mm, height adjustment), device panel not included
- Work chair SCSMARTESD (upholstering, gas spring, wheels, ESD)
- Drawer trolley WEV60635022 + tool kit serie TKSARJA6 for drawer
- CPU rack, lockable with keyboard tray 230 x 430 x 430 mm CPUULKIT
- Laboratory management software TEKLABNETPRO with server
- Interactive education tool ELAB1PRE/ELAB2PRE

Other accessories ELABACC
- 2 pcs tool cabinets TKCABIN1 + 2 pcs tool kit series TKSARJAS
- 3 pcs training kit cabinets TKCABIN5
- 1 pc worktop trolley WES70135001
- 1 pc test lead rack and 120 pcs safety test leads JTESTROLLER
- 1 pc storage trolley TKCOM4
- 1 pc spare part kit ELAB1Spare/ELAB2Spare

The scope of delivery does not include student PC’s, local network, training kits or AV equipment

ECONOMY
- Multifunctionality ensures high usage
- Laboratory power consumption less than 1500 W, all devices switched on, without external load
- Long service life
- Maintenance free construction

SAFETY
- Safety terminals in each device
- Fault current protection, functional tests over the network
- ESD safety
- Automatic safety test of power supplies
- Voltage and current limits
- Safety switch/finger protector
- Emergency stop switch in each workstation

FUNCTIONALITY
- Electronic documents
- Ergonomics
- Choose your own colour scheme: colours of cross-shaped chair legs, cabinet doors and drawer trolley fronts are selectable from the choices below (RAL3003, RAL6011, RAL5007; other surfaces RAL7035)
- Lockable workstations, cabinets and drawer units; 3 master keys
- Management of student PC’s and displays

RELIABILITY
- 3 years warranty
- Spare parts guaranteed for 10 years
- SGS/FI certified
- ISO 9000 quality system

ADAPTABILITY
- Devices can be preset to meet the level of study group (e.g. voltage and current limits for AC and DC supplies)
Network connected workstations
- key to efficient learning

Device modules in ELAB1STW/ELAB2STW workstations

1. Motorized multi-function workstation frame with ESD-top EHELP4L20
2. 1-phase supply unit LAN-controllable ELPI00NET
3. 4 pcs 230V extra socket outlets ELPSL4
4. Emergency off-switch HPITNET
5. Programmable variable AC power supply, 0-250 V AC / 0 - 4 A ACP40
   - Ethernet-connection with LabView-driver and PC-control software ACPETHERNET
6. Fixed DC power supply TLMB12,
   - 2 x 12 V / 15 V, 1 A, 5 V / 3,3 V, 3 A, 1,5 V / 3 V / 4,5 V / 5V / 6 V / 9 V, 1 A
7. Digital storage oscilloscope 100 MHz/1 GS/s 2 ch. TDS2012B
   - PC-control software TDS5W
   - USB-interface back side of the panel USB1BT
   - Operator training kit for Tektronix oscilloscope TDSTRKIT
8. Arbitrary function generator 25 MHz, 1 ch. AFG3021B
   - Ethernet-connection with LabView-driver and PC-control software AFGETHERNET
9. 6.5 Digit precision multimeter, TRMS FLUKE8845A
   - Ethernet-connection with LabView-driver and PC-control software FLUKEETHER
10. Programmable variable DC power supply 0-30 V DC / 0-5 A and
    - 30-60 V DC0-3 A TLP603
    - Ethernet-connection with LabView-driver and PC-control software TLPETHERNET
11. ESD-safe lead free soldering station SDLF1000
12. Digital function generator 3 MHz FG503
    - Ethernet-connection with LabView-driver and PC-control software FG503ETHER
13. 8-port LAN-connection LAN-8
14. 2 x Digital 4,5 nr TRMS multimeter DYMS50 Ethernet-connection with LabView-driver and PC-control software DYMS50ETHER
15. Digital storage oscilloscope b/w 100 MHz/1 GS/s, 2 ch. TDS1012B
    - PC-control software TDS5W
    - USB-interface back side of the panel USB1BT
    - Operator training kit for Tektronix oscilloscope TDSTRKIT

ELAB1STW workstation for one student, 16 pcs in ELAB1 laboratory
ELAB2STW workstation for two students, 8 pcs in ELAB2 laboratory

HELP4 dimensions. Height of storage unit 200 mm.

With special order 900 mm height.

Panel and storage unit locked.
Expand your laboratory with versatile accessories

- **Colour option LABCOLOUR**
  - Three other colours are available in addition to the four standard colours

- **Remote control option ELABWLAN**
  - Laboratory control by WLAN

- **Analog and digital techniques training kit ELABAT700**
  - 8 pcs training kits AT-700 with linear and digital circuit tester and software

- **Laboratory maintenance package LABCHECK**

- **Soldering/service workstation SOLABSTW + extraction kit KIT500E**

- **Extra workstation ELAB1STW or ELAB2STW**
- Installation
- Commissioning
- Training

- **Measuring workstation EMTP6**

- **Three phase trolley EMTP1**

For detailed specifications, please contact our sales or visit www.teklab.fi.