

Price List

US\$

Electrophysiology and
Electrochemistry*effective February 1st, 2011*A complete list of technical specifications for all HEKA products can be viewed and downloaded at www.heka.com.

Computer Controlled Patch Clamp Amplifiers

EPC 10 USB

The fully computer controlled Patch Clamp Amplifiers of the EPC 10 USB family are fully integrated with the **LIH 8+8** A/D D/A data acquisition interface and are ready to be connected to either a Macintosh or PC via a **USB 2.0** host interface and include:

- InstruTECH LIH 8+8
- One model circuit
- One pipette holder per headstage*)

For stimulation and data acquisition, *PATCHMASTER* or *TIDA* software is required separately. If the Patch Clamp Amplifier is being used in conjunction with a custom data acquisition system, HEKA will provide the control software *EPCMASTER* free of charge.

All EPC 10 USB Patch Clamp Amplifiers (positions 1. to 4.) are available in the standard configuration or with the options **Patch Amperometry Headstage** (position 11.) or **3-Electrode Headstage** (position 12.).

1. EPC 10 USB Patch Clamp Amplifier)**

One Patch Clamp Amplifier and Data Acquisition, USB version with LIH 8+8 interface in one housing.

Price \$ 18,700.00

2. EPC 10 USB Double Patch Clamp Amplifier)**

Two Patch Clamp Amplifiers and Data Acquisition, USB version with LIH 8+8 interface in one housing.

Price \$ 22,750.00

3. EPC 10 USB Triple Patch Clamp Amplifier)**

Three Patch Clamp Amplifiers and Data Acquisition, USB version with LIH 8+8 interface in one housing.

Price \$ 27,290.00

4. EPC 10 USB Quadro Patch Clamp Amplifier)**

Four Patch Clamp Amplifiers and Data Acquisition, USB version with LIH 8+8 interface in one housing.

Price \$ 32,250.00

**) In addition there is required:

Data acquisition software *PATCHMASTER* or *TIDA*. For compatibility please contact HEKA

Extended Patch Clamp Amplifier Systems

5. Clusters of EPC 10 USB Patch Clamp Amplifiers
NEW

Two EPC 10 USB or one EPC 10 USB Patch Clamp Amplifier and one data acquisition interface (e.g. LIH 8+8) can be connected to extend the number of recording channels. The *PATCHMASTER* software can control the cluster. Please contact HEKA for available configurations.

Price on request

6. Serial Patch Clamp Amplifier Extension**NEW**

Any of our EPC 10 Patch Clamp Amplifiers can be extended by one or several EPS 16 Probe Selector devices to allow serial switching between several headstages (see position 15.).

Price on request

*) Pipette Holders:

The standard HEKA pipette holder is suitable for glass capillaries with an outer diameter of 1.5 mm. For your special requirements, modified holders for outer diameters of 1.0, 1.3, 1.7 and 2.0 mm are available on request without extra charge.

Manually controlled Patch Clamp Amplifiers

Stand-alone Patch Clamp Amplifiers for manual operation.

All stand-alone patch clamp amplifiers include:

- One model circuit
- One pipette holder per headstage*)

For convenient stimulation and data acquisition these Patch Clamp Amplifiers can be combined with any A/D D/A data acquisition interface and suitable software.

7. EPC 800 USB Patch Clamp Amplifier **NEW**

Patch Clamp Amplifier with manual control and computer control via USB 2.0.

Price \$ 11,410.00

8. EPC 8 Patch Clamp Amplifier

Patch Clamp Amplifier with selectable Remote or Local operation modes. Use with PATCHMASTER software is required for Remote capabilities.

Price \$ 8,510.00

9. EPC 7 PLUS Patch Clamp Amplifier - The classic instrument

Manually operated patch clamp amplifier.

Price \$ 6,750.00

Oocyte Clamp Amplifiers

HEKA introduces its first fully computer controlled Oocyte Clamp Amplifier system iTEV 90. This new amplifier is fully digitally controlled and provides automated test and calibration routines. The iTEV 90 has the LIH 8+8 interface built-in and is fully controlled by the PATCHMASTER software.

10. iTEV 90 Multi-Electrode Clamp Amplifier)** **NEW**

Amplifier system including three electrodes (Current, Voltage, Field-Compensation) with LIH 8+8 interface in one housing.

Price \$ 15,050.00

***) Pipette Holders:**

The standard HEKA pipette holder is suitable for glass capillaries with an outer diameter of 1.5 mm. For your special requirements, modified holders for outer diameters of 1.0, 1.3, 1.7 and 2.0 mm are available on request without extra charge.

****) In addition there is required:**

Data acquisition software PATCHMASTER.

EPC Options and Accessories**11. Patch Amperometry Headstage** **NEW**

Headstage for EPC 10 patch clamp amplifiers with ground routing switchable between GND plug and BNC shield. Compatible with typical patch-amperometry electrode holders.

Available with a new EPC 10 USB. Please specify when ordering the EPC 10 USB.

Price \$ 280.00

Alternatively, as an additional headstage to upgrade your EPC 10 patch clamp amplifier.

Price \$ 2,145.00

12. 3-Electrode Mode Headstage **NEW**

Supports a third potential measuring electrode. The potential between reference and ground electrode is measured and automatically added to the potential between working and ground electrode. Typical applications:

- account for changing liquid junction potentials,
- use for precise electrochemical measurements,
- use for multi-electrode pair configurations.

Available with a new EPC 10 USB. Please specify when ordering the EPC 10 USB.

Price \$ 280.00

Alternatively, as an additional headstage to upgrade your EPC 10 USB patch clamp amplifier (revision "N" and later).

Price \$ 2,145.00

13. Headstage for EPC Patch Clamp Amplifier

• For EPC 7, EPC 7 Plus or EPC 8: Please note that the main amplifier has to be sent to HEKA for recalibration.

• For EPC 9: The system of amplifier with headstage can be recalibrated by the user.

• For EPC 10: The system of amplifier with headstage can be recalibrated by the user.

Price \$ 1,880.00

14. TIB 14 S

Digital output trigger Interface to be used with an EPC 10, EPC 10 DOUBLE, EPC 10 TRIPLE, EPC 10 QUADRO, EPC 9, EPC 9 DOUBLE, EPC 9 TRIPLE, and ITC-16, LIH-1600, LIH 8+8 or a CIO/DIO-Interface card. 14 TTL outputs and 14 open collector power outputs for switching the valves directly. 14 switches allow manual control of the outputs.

Price \$ 2,250.00

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15. EPS 16 Probe Selector**NEW**

A headstage multiplexing device for connecting a patch clamp amplifier of the EPC 10 family. The Probe Selector is available with up to 16 headstages and is supported by PATCHMASTER software.

Price on request (dependent on number of headstages)

16. PSA-12 USB Tone Generator

Sound generator device for monitoring the seal resistance with EPC 9, EPC 10 patch clamp amplifiers or ITC-16, ITC-18, LIH 1600, ITC-1600 interfaces. Including USB cable and headphones. Supported by PATCHMASTER software under Win2000, WinXP, or Mac OS X (10.3.9 or newer).

Price \$ 100.00

17. Model Cell MC-7/8

Model circuit for EPC 7, EPC 7 Plus and EPC 8 patch clamp amplifiers. Ready to connect to BNC input of the headstage.

Price \$ 119.00

18. Model Cell MC-9/10

Model circuit for EPC 9 and EPC 10 patch clamp amplifiers. Ready to connect to BNC input of the headstage.

Price \$ 119.00

19. Model Cell TESC

Model circuit simulating two electrodes measuring from the same cell. Including 2 BNC cables (30 cm).

Price \$ 380.00

20. Computer

- We supply PC or Macintosh computers on request. Installation of the interface board and all programs as well as check of the computer in connection with the Patch Clamp Amplifier are included.
- Installation of a customer's computer will be quoted on time consumption.

Price on request

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Computer Controlled Potentiostats/Galvanostats

The fully computer controlled potentiostats / galvanostats of the PG 300 USB family are fully integrated with the **LIH 8+8** A/D D/A data acquisition interface and are ready to be connected to either a Macintosh or PC via a **USB 2.0** host interface.

For stimulation and data acquisition, **POTMASTER** software is required separately. If the potentiostat / galvanostat is being used in conjunction with a custom data acquisition system, **HEKA** will provide the control software **PGMASTER** free of charge.

These computer controlled potentiostats / galvanostats can be used in combination with the high current boosters **HCB 20** or **HCB 50**.

21. PG 310 USB Potentiostat / Galvanostat

- Max. current $\pm 2A$, compliance voltage $\pm 20 V$
- Optional: External Pre-amplifier EPA for low noise current measurements $< 100 nA$

Price \$ 17,590.00

22. PG 390 USB Potentiostat / Galvanostat

Designed for low conductive electrolytes

- Max. current $\pm 1A$, compliance voltage $\pm 90 V$

Price \$ 18,080.00

23. PG 340 USB Bipotentiostat / Galvanostat

- 2 independent working electrodes (RING, DISK)
- Max. current $\pm 2A$ at RING and DISK, compliance voltage $\pm 20 V$
- Optional: 2 External Pre-amplifiers EPA for low noise current measurements $< 100 nA$

Price \$ 22,950.00

Manually Controlled Potentiostats/Galvanostats

These potentiostats / galvanostats do not have a built-in data acquisition interface. They can be equipped with a stand-alone data acquisition interface (e.g. **LIH 8+8**, **ITC-1600**) and **POTMASTER** software to form a complete system for stimulation and data acquisition. They can also be easily integrated into existing experimental setups that already have a digital data acquisition system.

All **HEKA** manually controlled potentiostats / galvanostats include a serial interface **RS-232** which enables digital remote control. **HEKA** also provides the software **PGMASTER** for control of the potentiostats / galvanostats free of charge.

These manually controlled Potentiostats/Galvanostats can be used in combination with the high current boosters **HCB 20** or **HCB 50**.

24. PG 410 Potentiostat / Galvanostat

- Max. current $\pm 2A$, compliance voltage $\pm 20 V$
- 1 Digital Display for current or voltage
- 2 Precision potentiometers for adjusting initial potential / current

Price \$ 8,030.00

25. PG 490 Potentiostat / Galvanostat

Designed for low conductive electrolytes

- Max. current $\pm 1A$, compliance voltage $\pm 90 V$
- 1 Digital Display for current or voltage
- 2 Precision potentiometers for adjusting initial potential / current

Price \$ 9,000.00

26. PG 510 Potentiostat / Galvanostat

- Max. current $\pm 2A$, compliance voltage $\pm 20 V$
- 2 separate Digital Displays for current and voltage
- Analog Scan Generator for potentiostatic and galvanostatic ramps

Price \$ 9,180.00

27. PG 590 Potentiostat / Galvanostat

Designed for low conductive electrolytes

- Max. current $\pm 1A$, compliance voltage $\pm 90 V$
- 2 separate Digital Displays for current and voltage
- Analog Scan Generator for potentiostatic and galvanostatic ramps

Price \$ 10,200.00

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PG Accessories**28. EPA External Preamplifier**

To be used with a PG 310 USB or PG 340 USB for low noise measurements in current ranges 100 pA, 1 nA, 10 nA and 100 nA. The EPA works in potentiostatic and galvanostatic modes and provides an additional input for a low current working electrode.

Price \$ 1,880.00

29. HCB 20 High Current Booster

Can be used with all HEKA Potentiostats / Galvanostats and other third-party potentiostats for currents up to **20 A at 10 V** permanently shortcut protected.

Price \$ 4,270.00

30. HCB 50 High Current Booster**NEW**

Can be used with all HEKA Potentiostats/Galvanostats and other third-party potentiostats for currents up to **50 A at 10 V** permanently shortcut protected.

Price \$ 6,390.00

31. ESG 10 Analog Scan Generator**NEW**

Scan Generator for smooth analog voltage ramps without digital steps. 20 scan speeds can be selected in the range of 1 mV/s to 1000 V/s. The ESG 10 is manually operated, can be triggered and provides a scanning potential range from -10 V to + 10V. Initial potential, first and second reversal potential can be adjusted.

Price \$ 3,696.00

32. TIB 14 S Trigger Interface

A Digital output trigger interface to be used with a PG 310/390, PG 340 or an interface LIH 8+8, ITC-1600. 14 TTL outputs and 14 open collector power outputs for switching e.g. valves directly. 14 switches allow manual control of the outputs.

Price \$ 2,250.00

33. CIP 2 Conductance Interface**NEW**

Interface box for conductance measurements using two potentiostats. The conductance can be measured during electropolymerization but can also be used in order to characterize the conductance of deposited polymers in relation to the applied potential. The CIP 2 has connections for two potentiostats and is delivered with:

- 4 test-plugs for conductance from 50 mS to 50 μ S
- BNC cables to connect 2 potentiostats

Price \$ 1,690.00

34. SFU 3 Stand-Alone Shear Force Unit**NEW**

Can be used with other commercially available SECM systems. Measures current less the height profile of structured samples. The SFU 3 includes:

- Controller SFU 3
- Shear Force electrode holder

The unit has analog inputs for setting the frequency, waveform and amplitude for the stimulation of the shear-force electrode. Phase shift and amplitude dampening of the shear force tip are available as analog voltages at BNC connectors.

Price \$ 7,800.00

35. MC 300 Model Cell**NEW**

Model circuit for all HEKA Potentiostats/Galvanostats for current ranges from 1 μ A to 10 A. The circuit includes different capacitors forming various Randle circuits. The cell can be used for verifying the potentiostat and for calibrating the current ranges for impedance measurements. Includes 3 BNC cables for connecting the model circuit to the potentiostat.

Price \$ 420.00

36. MC 300-LC Model Cell**NEW**

Model circuit for the current ranges 100 pA, 1 nA, 10 nA, and 100 nA for the external preamplifier EPA. Includes 3 BNC cables for connecting the model circuit to the potentiostat.

Price \$ 350.00

37. 19" Bench Top Rack

Aluminium. Colour: black.

Outer dimensions (W x H x D): (53 x 64 x 32) cm / (21.2 x 25.2 x 12.6) inches, 12 height units.

Price \$ 168.00

38. Computer

- We supply PC or Macintosh computers on request. Installation of the interface board and all programs as well as check of the computer in connection with the Patch Clamp Amplifier are included.
- Installation of a customer's computer will be quoted on time consumption.

Price on request

Microelectrode Amplifiers**39. EVA 8**

Voltammetric Amplifier for microelectrode technology with Remote and Local Operation Mode selectable.

- Amplifier with headstage and model circuit
- Pipette holder with BNC connector to be used for microelectrodes

Price \$ 5,630.00

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Acquisition Interfaces**40. InstruTECH LIH 8+8**

Expandable 16-bit multi-channel data acquisition interface for connection with a PC or Macintosh computer via a **USB 2.0** interface.

Single unit model (8 A/D and 4 D/A):

- **LIH 8+8**: Single LIH 8+8 unit with one USB 2.0 cable

Price \$ 5,100.00

Dual unit model (16 A/D and 8 D/A): Maximum sampling rate of 200 kHz for 4 channels (50 kHz for all 16 channels).

- **LIH 8+8/2**: Two LIH 8+8 units and two USB 2.0 cable

Price \$ 9,180.00

41. InstruTECH ITC-18

16-bit data acquisition interface with four D/A outputs, eight simultaneous sampling A/D inputs (each with a programmable gain amplifier), sixteen digital inputs and thirty-two digital outputs, all optically isolated.

Includes:

- ITC-18 data acquisition interface
- Interconnect cables

Available models:

- **ITC-18/PCI**: ITC-18 with 5 Volt PCI host interface
- **ITC-18/PCIV3**: ITC-18 with 3.3 Volt PCI host interface
- **ITC-18/USB**: ITC-18 with USB 2.0 host interface

Price \$ 5,100.00

42. InstruTECH ITC-1600

Expandable 16-bit multi-channel data acquisition interface for connection with a PC or Macintosh computer via a PCI host card interface.

Includes:

- I-1600 data acquisition interface
- Choice of PCI-1600 or PCI-1600e host interface
- One pair FO-1600 fiber-optic cables

Single unit models (8 A/D and 4 D/A):

- **ITC-1600**: Single I-1600 unit with a PCI (3.3 or 5 Volt) host interface
- **ITC-1600e**: Single I-1600 unit with a PCI Express host interface

Price \$ 5,100.00

Dual unit models (16 A/D and 8 D/A):

- **ITC-1600/2**: Two I-1600 units with one PCI (3.3 or 5 Volt) host interface
- **ITC-1600/2e**: Two I-1600 units with one PCI Express host interface

Price \$ 9,180.00

Expansion unit:

- **I-1600**: Analog / Digital unit for expanding ITC-1600, includes 1 pair InstruLINK cables

Price \$ 4,250.00

For all of the Data Acquisition Hardware there is, in addition, required Data Acquisition software **PATCHMASTER, POTMASTER, CHARTMASTER, TIDA or LIH IGOR XOP's** .

Host Interface Boards**43. Host Interfaces available for the ITC-16 or EPC 9**

- **PCI-16**: 5 Volt PCI host interface card including RC-16 cable
- **PCI-16V3**: 3.3 Volt PCI / PCI-X host interface card including RC-16 cable
- **USB-16**: USB 2.0 host interface including RC-16/12 and USB cable

Price \$ 950.00

44. Host Interfaces available for the ITC-18 or EPC 10 Plus

- **PCI-18**: 5 Volt PCI host interface card including SC-18 cable
- **PCI-18V3**: 3.3 Volt PCI / PCI-X host interface card including SC-18 cable
- **USB-18**: USB 2.0 host interface including SC-18/12 and USB cable

Price \$ 950.00

45. Host Interfaces available for the ITC-1600, LIH 1600 or EPC 10

- **PCI-1600**: PCI (3.3 or 5 Volt) host interface card
- **PCI-1600e**: PCI Express host interface card

Price \$ 1,095.00

Acquisition Accessories - Cables**46. Cables**

Any accessory cables required for acquisition interfaces and hardware connections can be provided by HEKA. Please contact us to discuss requirements and ask for pricing.

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Software

All software is available for Mac OS X and Windows 2000/XP, VISTA, and Windows 7 unless otherwise specified.

The HEKA software packages are copy protected by a dongle (hardware key). At any time, the purchase of a software package entitles the user to download the newest available software release from the HEKA web site or request a CD-ROM free of charge.

Discounts are provided for multiple software licences. (2nd and 3rd license = 20%, 4th and more = 25%)

Acquisition and Analysis**47. PATCHMASTER with Software Lock-In Amplifier, Photometry support and extended Online Analysis**

Multi-channel stimulation/acquisition software supporting up to 32 input and 32 output channels. Driver software for amplifiers of the iTEV, EPC 10 USB, EPC 10 Plus, EPC 10, EPC 9, EPC 8 and EPC 7 family as well as for ITC-16, ITC-18, LIH 1600, and LIH 8+8. PATCHMASTER includes a PULSE license in the same dongle.

Price \$ 4,110.00

48. PATCHMASTER Upgrade

Upgrade of an existing PULSE family dongle to include PATCHMASTER. HEKA requires the original dongle.

Price \$ 1,440.00

49. FITMASTER

Analysis and fitting routines for data acquired with PATCHMASTER or PULSE.

One license allows to run FITMASTER on two computers.

Price \$ 1,620.00

50. CHARTMASTER

Multi-purpose stimulation/acquisition software including software Lock-In and Photometry extension supporting up to 32 input and 32 output channels. Driver software for ITC-16, ITC-18, LIH 1600, and LIH 8+8.

Introductory Price \$ 1,320.00

51. POTMASTER

Stimulation/acquisition software with scan generator, data acquisition and online analysis. Supports

- Various electrochemical methods
- Full control of the PG 310/340/390 USB
- Remote control of the PG 410/490 and PG 510/590 via RS-232 interface
- Supporting High Current Booster HCB 20/HCB 50

Price \$ 3,050.00

52. POTMASTER Upgrade

Upgrade of an existing POTPULSE dongle to include POTMASTER. HEKA requires the original dongle.

Price \$ 470.00

53. POTMASTER Analysis Dongle

Enables POTMASTER to be run for review and analysis of data recorded by POTMASTER or POTPULSE.

Price \$ 540.00

54. EC Tools

User-friendly masks for quick start and easy use of certain electrochemical methods and applications

- Cyclic Voltammetry
 - Impedance Spectroscopy
 - Pitting Corrosion
 - Polarization Resistance
 - Differential Pulse Voltammetry
 - Normal Pulse Voltammetry
 - Fast Pulse Voltammetry
 - Potential Step Voltammetry
- POTMASTER and FITMASTER software is required.

Free of Charge

55. TIDA

8 channel data acquisition and analysis software for EPC 10 USB, EPC 10, EPC 9 as well as for LIH 8+8, LIH 1600, ITC-16 or ITC-18. Running under Windows 2000, XP.

Price \$ 2,680.00

56. TIDA Analysis Dongle

Current holders of a TIDA license are entitled to purchase one additional TIDA analysis dongle per license.

Price \$ 220.00

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GLP Software**57. PATCHMASTER PRO**

PATCHMASTER PRO is designed to support a set of Good Lab Practice (GLP) standards for data acquisition and handling, as established by the Food and Drug Administration (FDA) (21 CFR Part 11).

Additional information can be provided on request.

Please contact HEKA directly.

Price \$ 13,270.00

58. FITMASTER PRO

FITMASTER PRO can be used in combination with PATCHMASTER PRO for analysis of data acquired in an GLP environment.

Additional information can be provided on request.

Please contact HEKA directly.

Price \$ 1,750.00

Additional Software**59. EPCMASTER****NEW**

In case the Patch Clamp Amplifiers of the EPC 10 USB, EPC 10, EPC 10 Plus, or EPC 9 family should be used in conjunction with a custom data acquisition system, we provide the software EPCMASTER for control of the amplifier functions. The amplifiers EPC 8 and EVA 8 can be controlled via a data acquisition interface LIH 8 + 8, LIH 1600, ITC-18 or ITC-16.

Free of Charge

60. PGMMASTER**NEW**

In case any of the PG 300 family of potentiostats / galvanostats should be used in conjunction with a custom data acquisition system, we provide PGMMASTER for control. The PG 410/490 and PG 510/590 can be controlled via a data acquisition interface LIH 8 + 8, ITC 1600, ITC-18 or ITC-16.

Free of Charge

61. LIH XOPs

IGOR XOP's for controlling the LIH 1600 and LIH 8 + 8 interface from within IGOR.

Free of Charge

62. EPC DLL**NEW**

C-DLL to integrate HEKA amplifiers and data acquisition systems in your own software. Includes documentation and use of the support hotline.

Price \$ 590.00

63. Data Access

Import of PATCHMASTER and PULSE data to Sigma Plot, Microsoft Excel, Visual Basic, Origin and IGOR Pro.

Price \$ 295.00

64. TAC

Single channel analysis. Technical specifications see "www.bruyton.com"

Price \$ 795.00

65. IGOR Pro 6.2

Graphing and data analysis. Works and plots PULSE and PATCHMASTER data. For Windows and Mac OS.

Technical specifications see "www.wavemetrics.com"

Price \$ 595.00

66. IGOR Pro 5.0 Manuals

Printed Manuals: Volume II (User's Guide) and Volume III (Programming and Reference Manual) Available as long as supply lasts.

Price \$ 100.--

67. IGOR Pro Update

Update your IGOR to IGOR Pro 6.2

Price \$ 200.00

68. IGOR XOP Toolkit 6

For creating Igor XOPs

Price \$ 100.00

69. Dongle Exchange

- Switch from Mac OS to Windows or vice versa.
- Changing from Macintosh ADB bus to Macintosh USB or Windows USB bus.

Dongle exchanges are available for PATCHMASTER, POTMASTER, FITMASTER, CHARTMASTER, PULSE, POTPULSE, PULSEFIT, PULSETOOLS, X-CHART, FURA. HEKA requires the original dongle.

Price \$ 210.00

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Pipette and Electrode Manufacturing**70. PIP 6 Pipette Puller****NEW**

Temperature controlled pipette puller with alignment tool for manufacturing of pipettes with identical length.

Price \$ 3,870.00

71. Heating filaments for PIP 5 or PIP 6 Pipette Puller

Pack of 10

Price \$ 40.00

72. Additional Spacer Disks

A Set of 2 additional spacer disks (No. 8 and 10) for the PIP 5 or PIP 6 pipette pullers. No's. 7, 9, and 11 are included and delivered with original purchase of the pipette puller.

Price \$ 165.00

73. Glass Capillaries

We offer Borosilicate, Aluminosilicate, and quartz glass with several lengths and diameters from SUTTER Instrument. For technical details please refer to the SUTTER catalog or web site (www.sutter.com).

Price on request

Holders and Accessories**74. Pipette Holder**

The HEKA pipette holders are available for glass capillaries with an outer diameter of 1.0, 1.3, 1.5, 1.7 and 2.0 mm. Please specify when ordering.

Price \$ 220.00

75. Microelectrode Holder

Connects microelectrodes or carbon fiber electrodes with a gold-plated connector pin to the headstage of a HEKA amplifier. Holders for electrodes with outer diameters of 2.0 or 2.7 mm are available. Please specify when ordering.

Price \$ 185.00

76. Replacement Cap Set

Includes screw cap, O-rings, and spacer cylinder. Available for pipette holders for capillaries with outer diameters of 1.0, 1.3, 1.5, 1.7 and 2.0 mm.

Price \$ 67.00

77. O-rings

Replacement O-rings for pipette holder. Please specify the outer diameter of the glass capillaries used. Pack of 10 O-rings.

Price \$ 42.00

78. Electrode Connector Pin

Gold pin to connect Ag/AgCl electrode to headstage.

Price \$ 28.00

79. Ground Connector Pin

Pin to connect the bath electrode to the GND connector of the headstage. Pack of 10 pins.

Price \$ 42.00

Electrodes**80. Pt microdisk electrode**

Electro-active diameter 1 μm

Price \$ 1,000.00

81. Pt microdisk electrode

Electro-active diameter 5 μm

Price \$ 620.00

82. Pt microdisk electrode

Electro-active diameter 10 μm

Price \$ 620.00

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83. Microelectrodes

The sharp microelectrode with a standard length of 8 cm is based on a fiber with 80 μm outer diameter and 25 μm diameter metal core, alloy of platinum/tungsten (Pt 90%/W 10%). The metal core is surrounded and isolated by quartz glass. The electrode fiber is contacted with a gold-pin and mounted in a glass capillary. The microelectrode can be directly connected to any preamplifier from HEKA using the HEKA microelectrode holder for electrodes with outer diameter of 2 mm. Available in two versions:

- **ground only:** The tip is ground sharply with an impedance < 1 MOhm at 1 kHz.
- **pulled and ground:** The small tip is pulled and ground sharply with an impedance > 1 MOhm at 1 kHz.

Other materials of the electroactive core are available on request.

Price \$ 190.00

84. Carbon Fiber Microelectrodes

- Manufactured with Anodic Electrophoretic Deposition of Paint (EDP) method.
- 5 μm diameter
- Gold-plated pin connected, ready to use with HEKA Microelectrode Holder for electrode with outer diameter of 2.7 mm.
- Pack of 10 pcs.

Price \$ 460.00

85. Rotating Ring-Disk Electrode

Rotator for disk or ring-disk configurations and speed control unit to be used with the PG 340, electrodes with fixed Pt-ring and disk.

Price on request

Electrochemical Cells**86. ECC 7 Electrochemical Cell**

Complete electrochemical cell including connections for a thermostat and for working under inert gas. The cell can be connected to any potentiostat / galvanostat and includes:

- Cell body of double wall glass
- Cell cover of Teflon with connections of working electrode, counter electrode, reference electrode, inert gas and solutions.
- Cell holder of stainless steel
- Adjustable sample holder made of Teflon
- Counter electrode of Platinum with Teflon body
- Ag/AgCl pseudo reference electrode with Teflon body for organic solvents
- Calomel or Ag/AgCl reference electrode with Hager-Luggin capillary

Price \$ 2,730.00

87. OSC 5 Open Sandwich Cell**NEW**

Complete open electrochemical cell for electrochemical applications in aqueous or organic electrolytes. The cell is especially designed for HEKA EIProScan systems. The cell includes:

- One pseudo reference electrode for aqueous or organic electrolytes
- One Pt counter electrode
- One sample contact
- Cell bottom with flat Pt disc electrode (d=0.5 mm) and gold contact to a second working electrode
- Ring holder of stainless steel for fitting on the translation stages of an inverted microscope.
- Ring holder for mounting on a cell holder
- Stand alone cell holder of massive stainless steel
- Cell holder for mounting on other positioning systems are available on request

Price \$ 3,700.00

Electrodes for Electrochemical Cell**88. Counter Electrode**

Counter Electrode of Platinum with Teflon body including one shielded electrode cable.

Price \$ 340.00

89. Pseudo Reference Electrode

Ag/AgCl pseudo reference electrode with Teflon body for organic solvents including one shielded electrode cable.

Price \$ 220.00

90. Reference Electrode

Calomel or Ag/AgCl reference electrode with Hager-Luggin capillary.

Price \$ 420.00

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Faraday Cage**91. Faraday Cage**

Stand-alone Faraday Cage, outer dimensions (H x W x D): (190 x 110 x 83) cm / (74.8 x 43.3 x 32.7) inches. Other dimensions upon request.

Price \$ 3,180.00

92. Front Door Option**NEW**

Upgrade of the Faraday Cage with standard dimensions with two front doors.

Price \$ 700.00

93. Demountable Faraday Cage**NEW**

Stand-alone Faraday Cage, colour: HEKA blue, outer dimensions (H x W x D): (190 x 100 x 100) cm / (74.8 x 39.4 x 39.4) inches. Parts are demountable to simplify transportation.

Price \$ 4,410.00

94. Demountable Large Faraday Cage**NEW**

Stand-alone Faraday Cage, colour: HEKA blue, outer dimensions (H x W x D): (192,5 x 130 x 100) cm / (75.8 x 51.2 x 39.4) inches. Parts are demountable to simplify transportation.

Price \$ 5,080.00

95. Table Top Faraday Cage**NEW**

The faraday cage has one front door which can be placed to the left or right side optionally. Cable ducts are provided from all sides. A contact strip for ground connectors is built-in. The cage has a massive base plate made of steel. Colour: HEKA blue. Outer dimensions (H x W x D): (86 x 56 x 59) cm / (33.9 x 22.0 x 23.2) inches.

Price \$ 3,820.00

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Complete Systems

Electrochemical Probe Scanner - EIProScan
– much more than a SECM

The high resolution Electrochemical Probe Scanner EIProScan can be used for more applications than a SECM (Scanning Electrochemical Microscope). The main difference is the application of any electrochemical method at the tip (EIProScan) and not only the recording of tip currents under potentiostatic control (SECM). The second important difference between the EIProScan and a SECM is a perfect combination of an inverted microscope + imaging system with the positioning system of EIProScan. The basic configuration of an EIProScan is not equipped with any optical components which are normally not necessary for samples which are not transparent. Working especially with transparent and biological samples, the positioning system of the EIProScan can be equipped additionally with an inverted microscope and a digital imaging system.

HEKA offers three different EIProScan systems, but they have all following parts in common:

Systems Overview

The EIProScan system is available in 3 different configurations:

ELP 1	Basic EIProScan for use with non-transparent samples. The positioning system of ELP 1 is mounted on a breadboard or directly on a vibration isolating lab table.
ELP 2	EIProScan adapted to be used in combination with an inverted research microscope.
ELP 3	High-End EIProScan with integrated inverted microscope optics and motorized focus drive. Optionally, this EIProScan can be combined with transmitted light and fluorescence imaging techniques. The ELP 3 is the perfect platform to be used with biological samples.

96. ELP 1 – EIProScan, for non-transparent samples

- Real time controlled positioning system with closed loop regulation and optical encoder for all axis of the DC-servo motors.
- Resolution XY: 10 nm, Z: 10 nm / 1.5 nm Piezo
- Travelling range 100(X) x 100(Y) x 50(Z) mm/100 μ m (Z-Piezo).
XY scanning stage is mounted on a breadboard 45 cm x 60 cm x 5 cm or mounted on the table top with M6 threads of an anti vibration isolating lab table. A rail system with adjustable height is mounted on two steel columns and carries the Z translation stage with the Z Piezo mounted on it.
- Bipotentiostat/Galvanostat PG 340 USB with one external preamplifier EPA for the working electrode (microelectrode) DISK, fully computer controlled, minimum current resolution: 3fA in \pm 100 pA range. ELC 3 controller and PG 340 USB are mounted in a 19-inch table top rack.
- Windows PC equipped with 22" flat screen, Software POTMASTER with SCAN Extension for acquisition and analysis installed and configured.
- This system is delivered with all adapters, cables and manuals.

Price on request

Optional accessories for ELP 1:

Joystick	Joystick for manual control of XYZ of motor positioning system
Electrochemical Cells	Electrochemical Cell ECC 7, Open Sandwich Cell OSC 5
Microelectrodes	Pt microdisk electrodes with 1 μ m, 5 μ m, 10 μ m
Maintenance of Microelectrodes	Microelectrode polishing machine
Vibration isolation	Anti vibration isolating lab table and / or Active vibration isolating system
Constant Distance (tip - sample) Scan Mode	SFU 3 Shear Force Unit for EIProScan
Electrical shielding	Stand alone Faraday Cage or Table Top Faraday Cage
External video microscope	Not necessary but optional available in combination with a transparent electrochemical cell. The video microscope is placed beside the electrochemical cell observing the tip approach to a sample.

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97. ELP 2 – EIProScan, adapted to be used with an inverted research microscope

- Real time controlled positioning system with closed loop regulation and optical encoder for all axis of the DC-servo motors.
- Resolution XY: 10 nm, Z: 10 nm / 1.5 nm Piezo Travelling range 100(X) x 100(Y) x 50(Z) mm/100 μ m (Z-Piezo).
- The positioning system can be used with a customer specific inverted research microscope. (Please ask the HEKA sales team for compatible microscope models.) Depending on the microscope model, the scanning area might be limited.
- Adapter plate for 35mm petri dishes, clamp ring and pseudo-reference and counter electrode. Microscope translation stage for aligning of optical and z axis of the scan system. For transmitted light illumination during scanning a ring light is included.
- Bipotentiostat/Galvanostat PG 340 USB with one external preamplifier EPA for the working electrode (microelectrode) DISK, fully computer controlled, minimum current resolution: 3fA in \pm 100 pA range. ELC 3 controller and PG 340 USB are mounted in a 19-inch table top rack.
- Windows PC equipped with 22" flat screen, Software POTMASTER with SCAN Extension for acquisition and analysis installed and configured.
- This system is delivered with all adapters, cables and manuals.

Price on request**Optional accessories for ELP 2:**

Joystick	Joystick for manual control of XYZ of motor positioning system
Electrochemical Cell	Open Sandwich Cell OSC 5, Special chambers for continuous perfusion and heating.
Microelectrodes	Pt microdisk electrodes with 1 μ m, 5 μ m, 10 μ m
Maintenance of Microelectrodes	Microelectrode polishing machine
Vibration isolation	Anti vibration isolating lab table
Constant Distance (tip - sample) Scan Mode	SFU 3 Shear Force Unit for EIProScan
Electrical shielding	Stand alone Faraday Cage
Inverted Research Microscope	Customer specific research microscope can be integrated or delivered with the ELP 2 system.
Fluorescence Excitation Systems	Fluorescence excitation light sources, wavelength switcher, filter wheels, and filter sets for various fluorescence dyes.
Imaging Systems	Research grade CCD camera with imaging software and hardware synchronization with scan system.

98. ELP 3 – EIProScan, with integrated inverted microscope**The ELP 3 is the perfect platform to be used with biological samples.**

- Real time controlled positioning system with closed loop regulation and optical encoder for all axis of the DC-servo motors.
- Resolution XY: 10 nm, Z: 10 nm / 1.5 nm Piezo
- Travelling range 100(X) x 100(Y) x 50(Z) mm/100 μ m (Z-Piezo).
- The inverted microscope contains a motorized focus drive, a ring light for transmitted light illumination, epifluorescence optics with connector for a light guide, port for filter cube, port for an objective, and a c-mount adapter for connection of a camera. (Objective, fluorescence filter and camera are not included.)
- Joystick for manual positioning and focusing.
- Adapter plate for 35mm petri dishes, clamp ring and pseudo-reference and counter electrode.
- The z-axis of the positioning system can be manually aligned to the optical axis.
- Bipotentiostat/Galvanostat PG 340 USB with one external preamplifier EPA for the working electrode (microelectrode) DISK, fully computer controlled, minimum current resolution: 3fA in \pm 100 pA range. ELC 3 controller and PG 340 USB are mounted in a 19-inch table top rack.
- Windows PC equipped with 22" flat screen, Software POTMASTER with SCAN Extension for acquisition and analysis installed and configured.
- This system is delivered with all adapters, cables and manuals.

The ELP 3 combines the EIProScan with Transmitted Light Imaging and Fluorescence Imaging techniques in one instrument. Transmitted light imaging or fluorescence imaging can be performed simultaneously to the scan process.**Price on request**HEKA Elektronik
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Optional accessories for ELP 3:

Electrochemical Cells / Chambers	Special chambers for continuous perfusion and heating.
Microelectrodes	Pt microdisk electrodes with 1 μm , 5 μm , 10 μm
Maintenance of Microelectrodes	Microelectrode polishing machine
Vibration isolation	Anti vibration isolating lab table
Constant Distance (tip - sample) Scan Mode	SFU 3 Shear Force Unit for EIProScan
Microscope Objectives	Different magnification objectives for transmitted light or fluorescence imaging
Fluorescence Excitation Systems	Fluorescence excitation light sources, wavelength switcher or filter wheels as well as filter sets for various fluorescence dyes.
Imaging Systems	Research grade CCD camera with imaging software and hardware synchronization with scan system.

Patch Clamp Systems

100. Complete Patch Clamp Setup

HEKA offers customer specific complete set-up's including system integration and installation.

Price on request

EIProScan Options

99. SFU 3 Shear Force Unit for EIProScan *NEW*

For connection to the EIProScan controller ELC 3. Measures current less the height profile of structured samples. This enables scanning over structured samples keeping constant the distance between the tip of a microelectrode and the surface of the sample. The Shear Force Extension includes

- Shear Force electrode holder,
- dither and receiver,
- AD converter extension for the Real Time Computer system and,
- connecting cables.

Price \$ 4,700.00

The SFU 3 is also available as stand-alone system to be used with other SECM systems (see position 34.).

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Further Products

**SUTTER INSTRUMENT COMPANY -
www.sutter.com**

HEKA is sales partner of Sutter in Germany, Austria, USA, Canada and Latin America. The product range covers:

101. Micromanipulators

Motorized 3-Axis Micromanipulator Systems (MPC-325, MPC-365, MPC-385, MP-225, MP-285), Huxley-Wall Style Manipulator System (MP-85), 3-Axis Manual Micromanipulator System (MM-33 / MM-33A), Miniaturized Micropositioners (MM-1 / MM-3)

102. Translators & Stages

Motorized and Manual XY Translation System For Fixed-Stage Microscopes (MT-2000, MT-1000), Large Moving Stage And Fixed-Stage Platform (MT-78 / MT-78-FS)

103. Manipulator Stands

Manipulator Stands (MT-75 / MT-70 series), Micromanipulator Platforms (MD series)

104. Pipette Pullers and Bevelers

Laser Based Micropipette Puller - for quartz glass (P-2000), Next Generation Flaming/Brown Micropipette Puller (P-1000), Flaming/Brown Micropipette Puller (P-97), Vertical Micropipette Puller (P-30), Microelectrode Beveler (BV-10)

105. Microinjection

Micromanipulators, Digital Microinjector and Analog Microinjector (XenoWorks), Piezo Impact Drive (PrimeTech PMM-150FU)

106. Imaging Products

Wavelength Switcher (DG-5, DG-4), Light Sources (Lambda XL, Lambda LS), Filter Wheels (Lambda 10-3, Lambda 10-2), Shutters (Smart Shutter)

**ALA SCIENTIFIC INSTRUMENTS INC. -
www.alascience.com**

HEKA is an official reseller for products manufactured by ALA Scientific. The product range covers:

107. Patch Pipette Manufacturing

Microforge Coater/Polisher Systems (ALA-CPM-2)

108. Perfusion Systems

Gravity Driven Bath Perfusion Systems (VC3-PG4, VC3-PG8, VM-4PGTIB, VM-8PGTIB etc.), Pressure Driven Perfusion Systems (VC3-SP4, VC3-SP8 etc.), High Speed Solution Switcher (HSSE), Internal Pipette Perfusion System (2PK+), Various Perfusion Manifolds

109. Recording Chambers and Microincubators

various MS-type chambers, Temperature Controlled Chambers (HCMIS)

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Prices: For countries without a regional exclusive distributor of HEKA products, prices are provided in both EURO and USD price lists. Customers ordering from the United States and South American countries, please refer to the USD Price List. Canadian customers please contact HEKA Electronics Inc. for quotations. All other customers please refer to our EURO Price List. Prices given in official quotations are valid for 3 months. All prices are subject to change without prior notice. All prices ex works are unit prices, carriage forward, not including value-added tax and applicable duties.

Payment: Payment terms are net 30 days. HEKA Electronics Inc. and HEKA Instruments also accept major credit cards, bank wire transfers and bank drafts drawn on U.S. or Canadian banks. For certain international sales, we will require documents against payment (D/P), i. e. a letter of credit (processing fee will apply), or payment in advance. In countries where we have local distributors, please contact them for individual sales conditions.

Shipping: Shipping charges are prepaid and added to our invoice. All products are usually sent door-to-door by air freight and courier. The carrier is selected by HEKA but can also be specified by the customer when placing an order.

Returns: HEKA items ordered in error may be returned within 30 days of receipt. A 15% restocking fee will be applied as well as any charges that may have been incurred to return the equipment to its original condition. The original packing material should be used. Please contact HEKA directly prior to any returns.

Warranty: HEKA provides a guarantee of one year from date of invoice to all instruments and labor. The warranty covers replacement of parts and labor to repair the product. The equipment must be returned to HEKA with pre-paid shipment. Return shipment is complementary. Technical service for and repairs of all instruments, if required, will be carried out directly by HEKA. The equipment must have been operated according to instructions provided in the user manual and any abuse, misuse or unauthorized repairs will void warranty conditions.

Software Support: Support is free of charge for owners of HEKA products.

Software Upgrade: HEKA has an unsurpassed policy regarding upgrades of its software! Upgrades of HEKA software (for PATCHMASTER, FITMASTER, POTMASTER, TIDA) are available to licensed holders free of charge. The latest version can also be obtained from our download page, or you can contact HEKA to receive our latest CD. When you purchase a copy of a software program, you purchase one license that is protected by a hardware key ("dongle"). We provide a discount for multiple licenses of our software as follows: 2nd and 3rd licences = 20%; 4th or more = 25%. This discount applies to HEKA software only and not to products from third parties.

Sales Support: We provide exceptional pre and post sales customer support from our trained international sales representatives. Customer support is free of charge for registered users of HEKA products.

Repair Policy: HEKA prides itself on its superb, long-standing repair and maintenance service of its hardware products. In fact we still offer support for the HEKA produced EPC 7 - also known as List amplifier - that was introduced back in 1982! Users have to cover all shipping costs to have the equipment shipped for repair and returned. HEKA will cover return costs if the repair is under warranty.

General notice:

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Price list ius51

All previous price lists are invalid. Warranty standard one year on parts and labour. All prices ex works are unit prices, carriage forward, not including value-added tax or any other applicable taxes. Prices are subject to change without notice. We reserve the right to effect technical changes as development progresses.

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