

Patch Clamp Setup



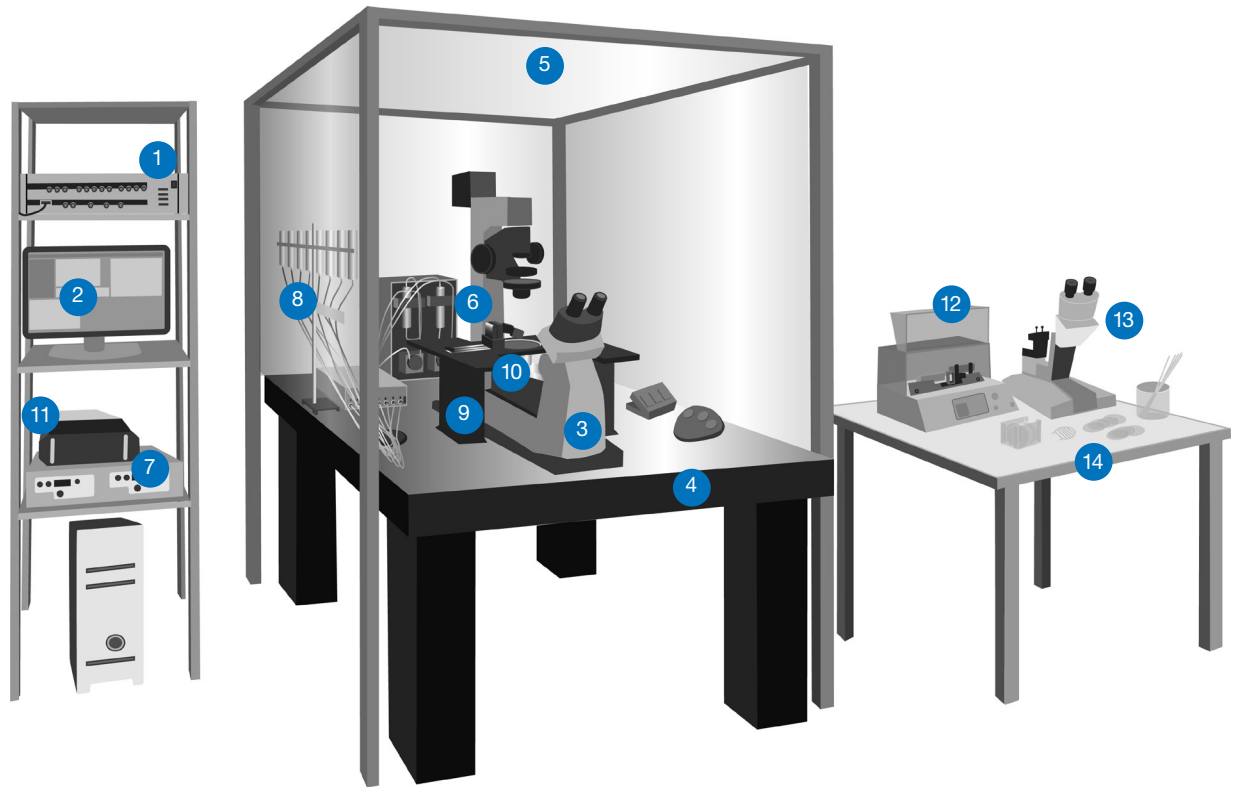
- Get your complete patch clamp setup from a single source
- Any component from amplifiers to accessories
- Well-known brands and products
- Profound expertise and on-site technical support and installation



multichannel*
systems

HEKA

WARNER
INSTRUMENTS



RECOMMENDATIONS

	Product	What We Recommend
1	Amplifier <i>Measures changes in membrane potential or currents resulting from ion-flux through ion channels.</i>	HEKA EPC 10 USB Amplifier with built-in data acquisition LIH 8+8, completely software controlled HEKA EPC 800 USB Amplifier can be paired with different data acquisitions; with front panel control
2	Data Acquisition Software <i>Powerful software to control the amplifiers, record and analyze data is a critical tool to produce solid results. We offer you an extensive and flexible software package together with our amplifiers.</i> <i>DAQ converts analog signals into digital signals. We offer solutions for whole-cell, single-channel, bilayer, loose patch, intracellular voltage recordings and amperometry.</i>	HEKA PATCHMASTER NEXT Multi-channel data acquisition software and amplifier control HEKA FITMASTER Analysis software HEKA SMARTLUX Imaging software for simultaneous imaging and electrophysiological recordings supporting high-end low light cameras HEKA LIH 8+8 Data acquisition, can be paired with different amplifiers
3	Microscope <i>Optical tools to scale up your sample. In cooperation with Zeiss and other microscope manufacturers, we offer the best solution for your project. For slices, fluorescence, optogenetics, and many more.</i>	ZEISS AXIO OBSERVER ZEISS AXIO EXAMINER <i>Our patch rigs are also compatible with microscopes from Olympus, Nikon, and Leica. Please talk to your sales representative for further options.</i>

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4	<p>Table</p> <p><i>An anti-vibration table is required to compensate vibrations which can disrupt your recordings. Even small vibrations in picometer range can break down your seal.</i></p>	<p>TMC CLEANBENCH™ KINETIC SYSTEMS LABMATE</p>
5	<p>Faraday cage</p> <p><i>The cage around your patch clamp rig shields noise from interference sources in order to get a perfect signal-to-noise ratio.</i></p>	<p>TMC CLEANBENCH™ FARADAY CAGE KINETIC SYSTEMS LABMATE</p>
6	<p>Imaging/Recording Chambers and Stage Adapters</p> <p><i>Series 20 Imaging and Recording Chambers are designed for electrophysiological recording and/or optical imaging. Applications include patch clamp, oocyte clamp, and other physiological measurements on cell cultures and tissue preparations.</i></p>	<p>WARNER CHAMBERS: RC-26G and PM-1 platform for cultures RC-27L and PM-6 platform for slice recording <i>There are many other chamber options available on the Warner website.</i> Stage Adapters allow the Warner family of products to fit your microscope stage. Adapters available for almost every upright or inverted stage.</p>
7	<p>Temperature control</p> <p><i>To run your experiments at a constant temperature or to perform temperature-dependent recordings, we offer reliable solutions to control temperature in both the perfused solution and bath chamber.</i></p>	<p>WARNER DUAL CHANNEL TEMPERATURE CONTROLLER (TC-344C) WARNER IN-LINE SOLUTION HEATER (SH-27B) WARNER PM SERIES MAGNETIC HEATED PLATFORMS WARNER DUAL CHANNEL BIPOLAR TEMPERATURE CONTROLLER (CL-200A) WARNER DUAL IN-LINE HEATER/COOLER (SC-20) WARNER LIQUID COOLING SYSTEM (LCS-1 HEAT EXCHANGER)</p>
8	<p>Perfusion and Fluid Control</p> <p><i>A perfusion system allows a fast and complete exchange of solution. Pumps and vacuum systems complete your perfusion or temperature control system.</i></p>	<p>WARNER SIX OR EIGHT CHANNEL PERFUSION VALVE CONTROL SYSTEM (VCS-6/VCS-8) WARNER DWV WORKSTATION VACUUM SYSTEM MCS PPS2 PERISTALTIC PERFUSION SYSTEM</p>
9	<p>Stage</p> <p><i>The hybrid stage offers plenty of space for all your tools like micromanipulators, bath perfusion, etc. It can be operated manually or motorized.</i></p>	<p>WARNER HYBRID STAGE This fixed platform with microscope translation table is available for inverted and upright microscopes from all common brands</p>
10	<p>Micromanipulator</p> <p><i>Patch clamp manipulators are highly precise instruments. They move your patch pipette with nanometer precision.</i></p>	<p>SUTTER TRIO™, MP-225 AND MP-285 LUIGS & NEUMANN MICROMANIPULATORS: Basic Unit, Junior 3 axes, Junior 4 axes, Junior Multipatch, Mini 3 axes Unit, Mini 4 axes Unit, Mini Unit Compact</p>

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11	Stimulus generator <i>Two independent channels for voltage or current controlled stimulation.</i>	MCS 2-CHANNEL STIMULUS GENERATOR (STG4002)
12	Puller <i>The right pipette for your needs is essential for your successful recordings and reliable data. We offer pullers for conventional glass or quartz, for injection or patch clamp.</i>	WARNER PROGRAMMABLE PIPETTE PULLER (PMP-102) SUTTER P-1000 AND P-2000 G OR F
13	Microforge-grinding, beveler <i>For polishing, shaping, tipping, bending, beveling, and grinding your micropipettes, we have an all-in-one option: the MFG-5. For sharpening only, we offer bevelers as well.</i>	WARNER MICROFORGE-GRINDING CENTER (MFG-5) SUTTER BEVELER (BV-10)
14	Capillary/coverlips/ accessories <i>Source all of the required accessories for your patch clamp project from us.</i>	WARNER COVERSLLIP/COVERGLASS WARNER SLICES ANCHORS KITS (HARPS) WARNER CAPILLARY GLASS



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