

# Patch Clamp Setup

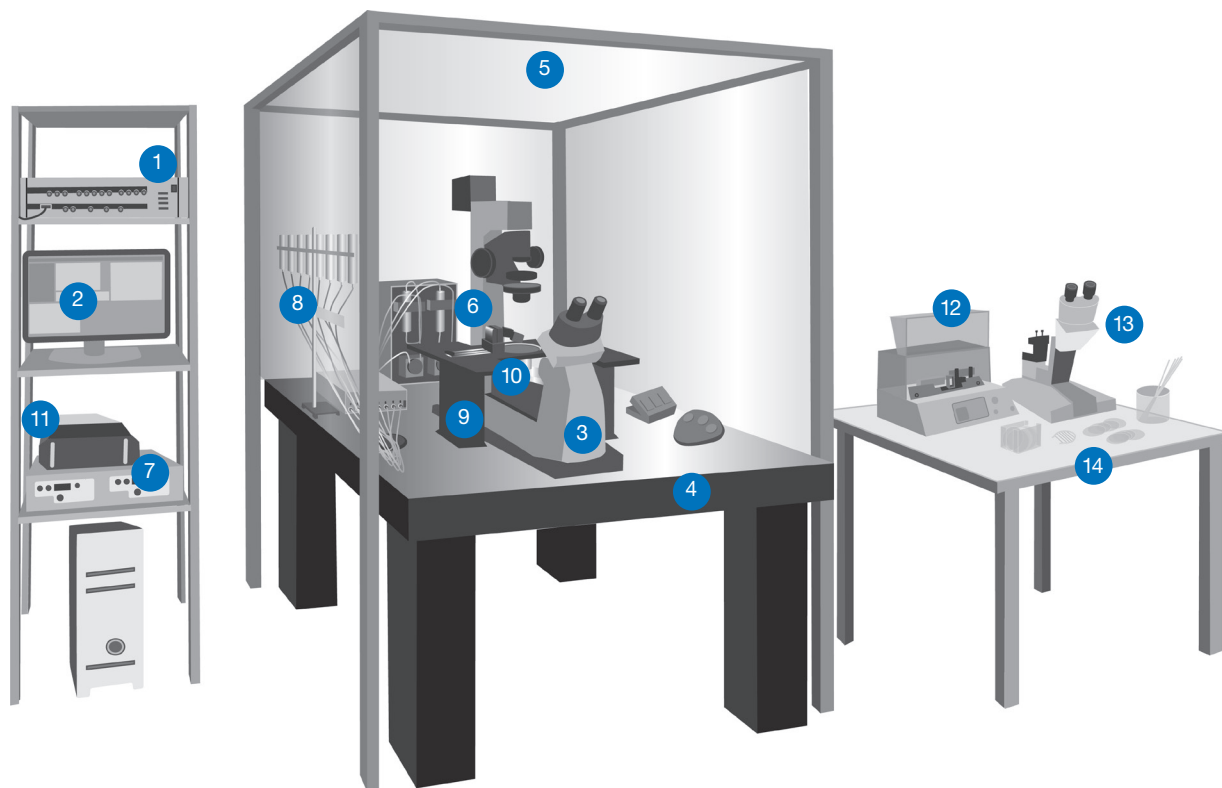


- Get your complete patch clamp setup from a single source
- Any component from amplifiers to accessories
- Well-known brands and products
- Profound expertise and on-site technical support and installation

**multichannel\***  
**systems**

**HEKA**

**WARNER**  
INSTRUMENTS



## RECOMMENDATIONS

	Product	What We Recommend
1	<p><b>Amplifier</b> Measures changes in membrane potential or currents resulting from ion-flux through ion channels.</p>	<p><b>HEKA EPC 10 USB</b> Amplifier with built-in data acquisition LIH 8+8, completely software controlled</p> <p><b>HEKA EPC 800 USB</b> Amplifier can be paired with different data acquisitions; with front panel control</p>
2	<p><b>Data Acquisition Software</b> 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.</p> <p>DAQ converts analog signals into digital signals. We offer solutions for whole-cell, single-channel, bilayer, loose patch, intracellular voltage recordings and amperometry.</p>	<p><b>HEKA PATCHMASTER NEXT</b> Multi-channel data acquisition software and amplifier control</p> <p><b>HEKA FITMASTER</b> Analysis software</p> <p><b>HEKA SMARTLUX</b> Imaging software for simultaneous imaging and electrophysiological recordings supporting high-end low light cameras</p> <p><b>HEKA LIH 8+8</b> Data acquisition, can be paired with different amplifiers</p>
3	<p><b>Microscope</b> 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.</p>	<p><b>ZEISS AXIO OBSERVER</b> <b>ZEISS AXIO EXAMINER</b></p> <p>Our patch rigs are also compatible with microscopes from Olympus, Nikon, and Leica. Please talk to your sales representative for further options.</p>

## RECOMMENDATIONS

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4	<p><b>Table</b></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><b>TMC CLEANBENCH™</b> <b>KINETIC SYSTEMS LABMATE</b></p>
5	<p><b>Faraday cage</b></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><b>TMC CLEANBENCH™ FARADAY CAGE</b> <b>KINETIC SYSTEMS LABMATE</b></p>
6	<p><b>Imaging/Recording Chambers and Stage Adapters</b></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><b>WARNER CHAMBERS:</b> 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><b>Temperature control</b></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><b>WARNER DUAL CHANNEL TEMPERATURE CONTROLLER (TC-344C)</b> <b>WARNER IN-LINE SOLUTION HEATER (SH-27B)</b> <b>WARNER PM SERIES MAGNETIC HEATED PLATFORMS</b> <b>WARNER DUAL CHANNEL BIPOLAR TEMPERATURE CONTROLLER (CL-200A)</b> <b>WARNER DUAL IN-LINE HEATER/COOLER (SC-20)</b> <b>WARNER LIQUID COOLING SYSTEM (LCS-1 HEAT EXCHANGER)</b></p>
8	<p><b>Perfusion and Fluid Control</b></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><b>WARNER SIX OR EIGHT CHANNEL PERFUSION VALVE CONTROL SYSTEM (VCS-6/VCS-8)</b> <b>WARNER DWV WORKSTATION VACUUM SYSTEM</b> <b>MCS PPS2 PERISTALTIC PERFUSION SYSTEM</b></p>
9	<p><b>Stage</b></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><b>WARNER HYBRID STAGE</b> This fixed platform with microscope translation table is available for inverted and upright microscopes from all common brands</p>
10	<p><b>Micromanipulator</b></p> <p><i>Patch clamp manipulators are highly precise instruments. They move your patch pipette with nanometer precision.</i></p>	<p><b>SUTTER TRIO™, MP-225 AND MP-285</b> <b>LUIGS &amp; NEUMANN MICROMANIPULATORS:</b> Basic Unit, Junior 3 axes, Junior 4 axes, Junior Multipatch, Mini 3 axes Unit, Mini 4 axes Unit, Mini Unit Compact</p>

RECOMMENDATIONS		
	Product	What We Recommend
11	<b>Stimulus generator</b> <i>Two independent channels for voltage or current controlled stimulation.</i>	<b>MCS 2-CHANNEL STIMULUS GENERATOR (STG4002)</b>
12	<b>Puller</b> <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>	<b>WARNER PROGRAMMABLE PIPETTE PULLER (PMP-102)</b> <b>SUTTER P-1000 AND P-2000 G OR F</b>
13	<b>Microforge-grinding, beveler</b> <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>	<b>WARNER MICROFORGE-GRINDING CENTER (MFG-5)</b> <b>SUTTER BEVELER (BV-10)</b>
14	<b>Capillary/coverlips/ accessories</b> <i>Source all of the required accessories for your patch clamp project from us.</i>	<b>WARNER COVERSILIP/COVERGLASS</b> <b>WARNER SLICES ANCHORS KITS (HARPS)</b> <b>WARNER CAPILLARY GLASS</b>



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