



# neoplas control

solutions for your operations in gases and plasmas



## Q-MACS Basic SC

The Q-MACS Basic Single Channel (SC) supply is part of a new generation QCL driver tailored for OEM application. It combines highest reliability in pulse generation with a compact and robust design and provides outstanding flexibility for driving QCL in pulsed or continuous wave mode respectively. It is a robust and versatile laser driver system for various infrared absorption spectroscopic applications and can be utilized for fundamental and industrial research purposes. The system is capable to deal with laser heads of different characteristics containing all electronics necessary to support diverse packages. It comes with special control software to configure the device via its USB interface.



### general

description	single channel QCL driver utilizes compact laser heads very flexible pulse regimes various operational modes (pulsed, continuous wave) USB-interface
dimensions	16 mm x 240mm x 140mm
weight	2kg
working range	+5°C to +40°C
power	230 V / 1 A / 50 Hz; 115 V / 2 A / 60 Hz (switchable)
pulse frequency	up to 5MHz
pulse width	6ns...510 ns (resulting optical pulse width depends on the used QCL, the electronic pulse width is determined by the FPGA load)
cw or bias current	up to 800 mA per channel (not available, when using Q-MACS LH8 laser head)
temperature range	-25°C to +40°C

### head

supported devices	Q-MACS LH3 II Q-MACS LH8
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### USB interface

parameter control	using related driver and control Software
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