

Q-MACS Basic SC Supply

technical specification

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	160 mm x 240 mm x 140 mm*
	*dimensions might change slightly depending on the model
weight	2 kg
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 5 MHz
pulse width	6 ns 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 LH8
	Q-MACS LH3 II
USB interface	
parameter control	using related driver and control Software

