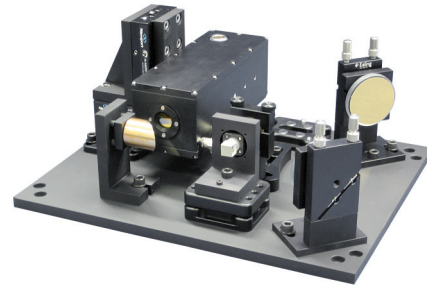


Q-MACS Basic plus



technical specification

The Basic plus is the extended version of the Q-MACS Basic. It is a robust and versatile QC Laser driver system, pulsed and cw, for various infrared absorption spectroscopic applications. The Q-MACS Basic plus comes additionally with collimating and alignment optics: base plate, XYZ stage, alignment laser, removable beam splitter, off axis parabolic mirror (OAP), 2 gold coated mirrors on adjustable mirror mounts.

head	dimensions	64 mm x 64 mm x 170 mm
	weight	1050 g
	pulse width	8 ns*... 256 ns** * depends on the used QCL and the QCL-voltage ** longer pulses on request
	pulse frequency	to 1 MHz
	cw current	to 900 mA
	QCL temperature range	-35 °C to +40 °C
	QCL	tested and installed (on request)
cable	length and weight	2 m (other lengths on request), 500 g
	connector	straight or rectangular
supply	dimensions	42 TE/3HE x 235 mm = 236 mm x 139 mm x 256 mm
	weight	5.4 kg
	power	230 V / 1 A / 50 Hz; 115 V / 2 A / 60 Hz (switchable)
	working range	+5 °C to +40 °C
signals on BNC	input	trigger (external / internal) (TTL); gate (TTL) set temperature: -4 V (= -40 °C) to +4 V (= +40 °C) set QCL-voltage: 0 ... 10 V programmable voltage
	output	actual temperature: -400 mV (-40 °C) to +400 mV (+40 °C) actual QCL-voltage
collimation and alignment board	dimension	320 mm x 260 mm x 110 mm
	weight	7.6 kg (without head)
	output	collimated infrared laser beam, diameter ca. 25 mm co-aligned visible red trace laser beam, diameter ca. 3 mm
RS 232 interface	parameter control	using Q-MACSoft 2.0