

**Compact driver with integrated cooling for
Laser diodes up to 15 A
TEC driver with mounting plate
USB interface
Analog interface
12 V/DC or 24 V/DC supply
Stable aluminum enclosure**



The compact driver 0914 from Beratron was developed for laser diodes up to 15 A. The laser diodes are mounted on a mounting plate inside the enclosure. The mounting plate is cooled or heated with peltier elements.

Up to 8 W thermal dissipation loss at a difference in temperature of 10 °C to environment air can be dissipate. Therewith the 0914 driver fits several diodes of many laser diodes manufacturer. On the mounting plate a multiplicity of laser diode housings can be installed.

The driver can be controlled via USB Bus or a simple analog interface.

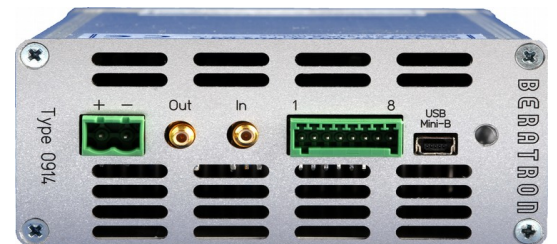
The settable limit current protect your laser diode from over current in any case. The operation temperature of the laser diode can be set between 15 °C and 40 °C (the maximum dissipation loss has to be kept in mind).

All parameters of operating can be saved. The driver 0914 is supplied by 12V/DC or 24 V/DC.

A three color LED on the front side of the driver informs on operational state.

The driver is designed for CW mode as well as for pulse mode with pulses from 5 μ s up to CW.

A current-monitor and Interlock for safety integration in your environment perfects the driver 0914.



picture 1: front view

Supply	12V/DC or 24V/DC Connector Phoenix MSTB 2,5 HC/2-ST-5,08
max. laser diode current	selective 3.3A, 5.8A, 7.5A, 10A or 15A load voltage 5V@12V supply or 11V@24V supply higher currents for pulse-mode on request current rise time < 1 μ s for internal diodes over-current protection
max. dissipation loss	8 W at 10°C Δ T to environmental air
Settable laser diode temperature	15°C to 40°C, settable, stability < 0,1°C
USB interface	Mini - B
Analogue interface	Laser diode current presetting Phoenix connector FK-MC 0,5/8-ST-2,5
Warning lamp (Relay)	24V DC or AC / 400 mA
Current-monitor	Digital via USB and analogue
Trigger	TTL Trigger IN / SMC connector max. 50 KHz TTL Trigger OUT / 50 Ω / SMC-connector
Interlock	single, hard
Fiber-coupler	e.g. SMA-905
Suitable laser diodes	Lumics, Jenoptik, OSRAM, Bookham, JDSU, BWT, Wave spectrum ... and many more
Operation indicator	Three-color status – LED
Pulse specifications	5 μ s up to CW max. 50 KHz (internal operation, free run)
Operation modes	internal mode (presetting via USB) external mode (presetting via analogue interface)
Enclosure	Aluminum
Weight	depends on model, ca. 700 g
Dimensions	16.4 x 10.5 x 4.6 cm ³ (without connectors)