

Pockels Cell Module PCM 12.0



Pockels cell for completely **enclosed beam**, allowing controlled air-flow along beam path

- ▶ **mini-clean room environment:** overpressure prevents dust from entering
- ▶ **water cooled apertures** to protect BBO crystals
- ▶ interface for connecting additional modules, SM1 mounted optics or window
- ▶ **easy alignment of pre-aligned BBO crystals.**
 - ▶ AR coating with damage threshold $< 10 \text{ J/cm}^2$ for 10 ns, 10 Hz
 - ▶ crystal vibration damped, for high frequency operation*
 - ▶ crystal cross section of 6x6, 9x9, and 12x12 mm available

- ▶ Temperature and humidity sensors installed

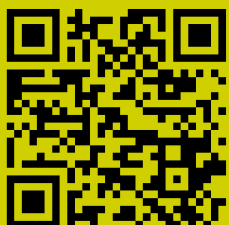
PCM driver

- ▶ to be installed in compartment below optical base plate or next to Pockels cell
- ▶ for kHz operation (e.g. 175 kHz for 9x9 BBO crystal)
- ▶ prepared for **GALDEN®** cooling of driver for operation at $> 1 \text{ kHz}$

Power supplies unit for installation in rack



**patent application DE 10 2013 012 966.4*



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