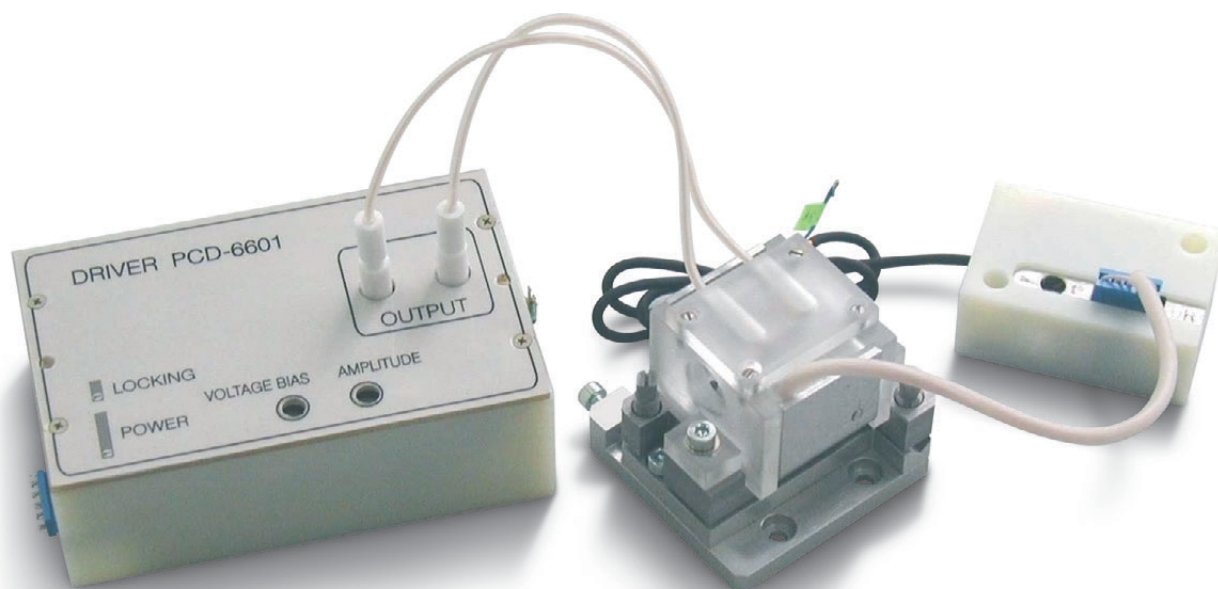


KD*P POCKELS CELLS

Lasers

Laser Components

Laser Optics



*The PC-series of KD*P longitudinal Pockels cells have been designed to give highest possible switching times and are normally used for Q-switching lasers.*

The cells are manufactured from crystals that have been specially selected for their low optical loss and strain free properties. They can be used in

optical range 0,4-1,1 mm and normally have AR coating at customer specified wavelength.

The crystals are set in temperature-stabilized mounts, which accurately maintain the maximum contrast ratio without adjustment of bias voltage and prevent surface degradation by humidity.

KD*P crystals with wedge and Brewster angle surfaces are available on request

SPECIFICATIONS

Model	PC-8	PC-10	PC-15
Aperture, mm	8x8	10x10	15x15
Half-wave voltage (1064 nm, 20° C), kV		6.7-7.5	
Maximum voltage, kV	8.0	8.0	10.0
Crystal length, mm	16	20	30
Damage threshold, MW/cm ² with AR coating		400	
without coating		500	
Single pass insertion loss, %	≤4	≤4	≤5



LOTIS Pockels cell drivers have been designed to supply Pockels cells of solid state lasers.

LOTIS Pockels cell drivers have been designed to supply Pockels cells of solid state lasers, as well as using as intracavity shutters, selection ultra fast pulses in mode locked lasers etc.

AVAILABLE MODELS

- PCD-6601 — $\lambda/4$ driver for DKDP Q-SW,
- PCD-0902 — $\lambda/2$ driver for DKDP Q-SW,
- SPS-6621 — $\lambda/4$ intracavity single pulse selector,
- ICS-6603 — $\lambda/4$ intracavity shutter.

SPECIFICATIONS

Model	PCD-6601	PCD-0902	SPS-6621	ICS-6603
Supply voltage, V	18–30	18–30	18–30	18–30
Max. Current, mA	180	180	180	180
Bias voltage, kV	3.5...5.0	0	3.5...5.0	3.5...5.0
Pulse amplitude, kV	–3.5...5.0	$\pm 3.5...5.0$	–3.5...5.0	–3.5...5.0
Rise time, ns	<10	<10	<10	<10
Pulse duration (flat top), ns	1000	1000	1000	Trigerring pulse
Jitter, ns	< ± 1	< ± 1	< ± 1	< ± 1
Pulse delay with respect to trigger, ns	20	20	20...40 (variable)	20
Trigger pulse aplitude	TTL	TTL	Photodiode	TTL
Dimensions, mm	95x60x31	95x60x31	120x60x31	120x60x31

Separate power supply is available powering from 110, 220 V, 50-60 Hz main at a choice