

# OPTICAL PARAMETRIC OSCILLATOR (BBO)



## Optical Parametric Oscillator

MODEL

## COPO 2200 "CHAMELEON"

- 420 to 2200 nm continuous tunability range
- Original schematic & super-compact design
- Adaptation to a variety of pump lasers

- ◆ Optical parametric oscillation in BBO crystal allows one to cover the broadest operational spectrum range (420-2200 nm).
- ◆ Careful testing and selection of BBO crystals ensure long-term reliable operation.
- ◆ The OPO originally-designed intracavity optics and mechanics allow avoidance of cavity misalignment and minimization of the required components.
- ◆ The interchangeable focusing UV-optics permit the OPO to be adapted to a variety of pump lasers.
- ◆ The super-compact design allows the OPO to be integrated in other sophisticated optic laser systems.

### SPECIFICATIONS

#### PUMP REQUIREMENTS

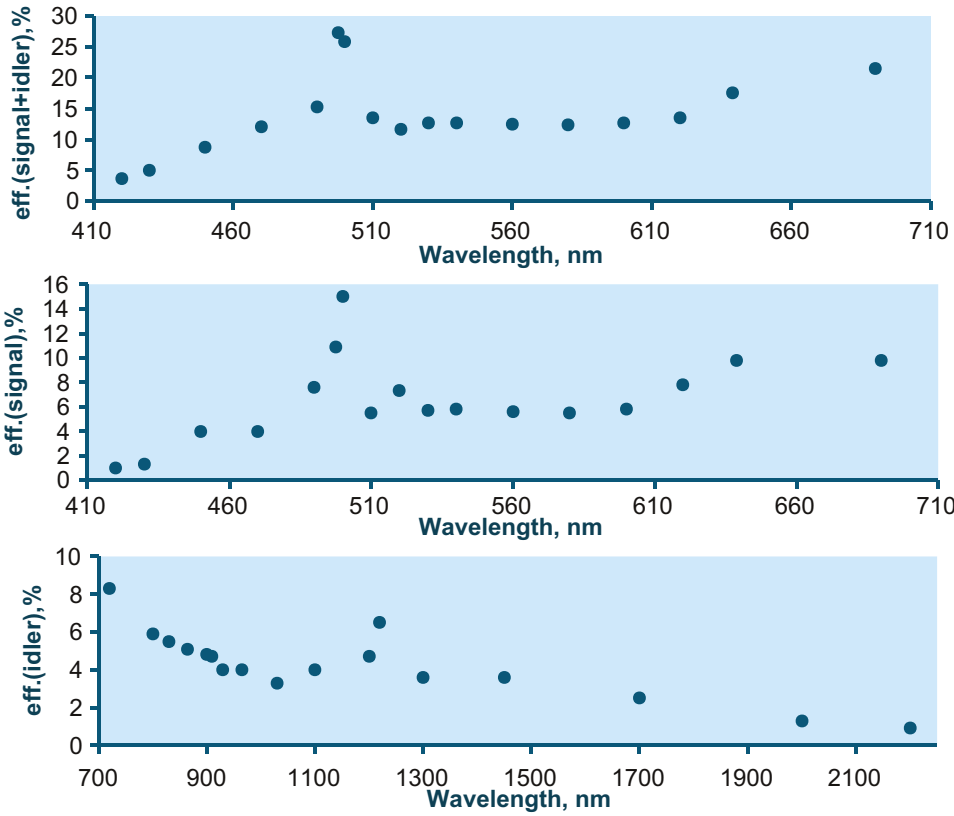
Wavelength:	355 nm
Pulse energy:	20-150 mJ
Pulse width:	8-20 ns
Beam diameter:	$\leq 8,0$ mm
Beam divergence:	$\leq 3,5$ mrad
Pulse repetition rate:	1-50 Hz

#### OUTPUT PARAMETERS

Tunability range	
at signal wave:	420-690 nm
at idler wave:	730-2200 nm
Average efficiency across tunability range (signal + idler) at input pulse width 15 ns:	$\geq 20\%$
Output port (after wavelength separator):	I - idler wave II - signal wave
Linewidth at 500 nm output:	0,5 nm

**OVERALL SIZE: 269x140x87 mm**

# Optical Parametric Oscillator, Model COPO2200 "Chameleon"



## DIMENSIONAL DRAWING

