

# CL 7308

EXCIMER XeCL-LASER

Optosystems LTD  
108841, Moscow, Troitsk,  
Kaluzhskoye Shosse, 4/1  
T +7 (910) 451-99-36  
info@optosystems.ru

## FEATURES

Pulse duration > 180 ns  
Power stabilization  
Thyatron Switch  
Built-in energy detector  
Premix gases  
Computer control



- 308nm laser pulses can be used very efficiently in Coronary Angioplasty
- XeCl laser Model 7308 is ideal for intravascular tissue ablation
- Main feature of XeCl laser Model 7308 is long pulse duration of laser pulses
- Laser beam can be delivery to target by UV fiberoptic catheters
- Pulse energy transmitted through optical fiber strongly depend on pulse duration - Longer pulses means higher energy at distal end of optical fiber

## SPECIFICATION

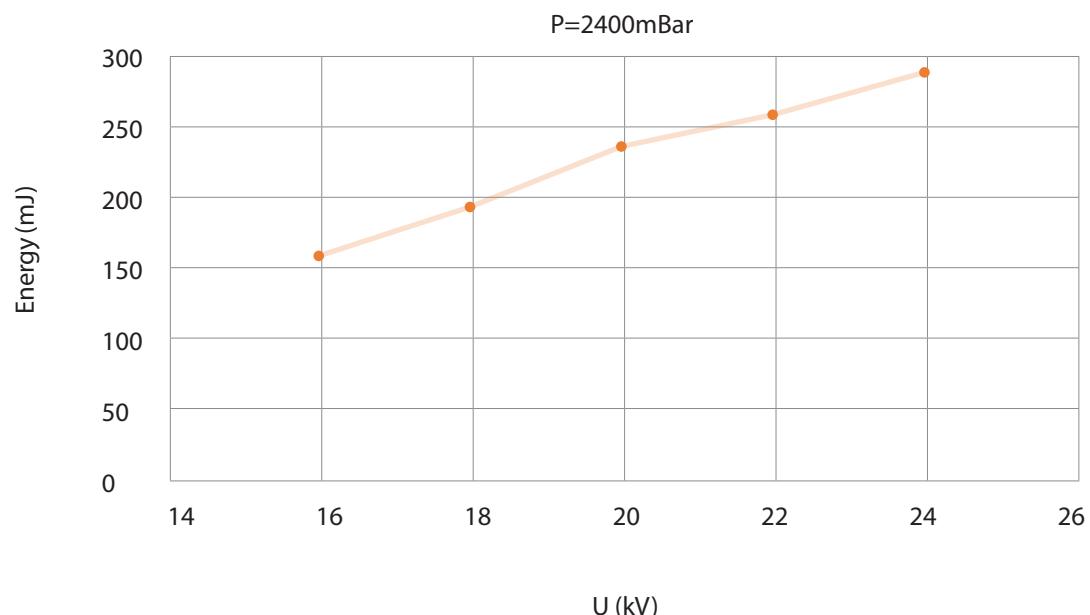
Model	CL-7308
Wavelength , nm	308
Max. pulse energy, mJ	280
Repetition rate, Hz	30
Pulse duration (FWHM), ns	180
Divergency (Vertical X Horizontal), mrad	2,6 X 1,4 (standard specification)
Beam size (Vertical X Horizontal), mm	22 X 14 (standard specification)
Jitter, ns	2 ns
Control	RS 232, Windows
Cooling	Air at short term / Water – long term operation
Power	single phase, 220V / 50Hz, 1.5 kW
Dimensions (weight)	1360L × 382W × 720H mm (170 kg)

# CL 7308

EXCIMER XeCL-LASER

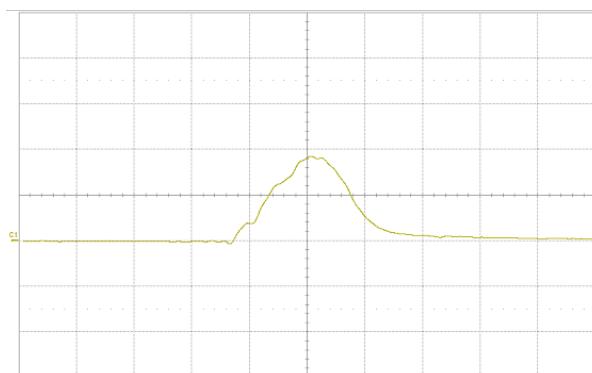
Optosystems LTD  
108841, Moscow, Troitsk,  
Kaluzhskoye Shosse, 4/1  
T +7 (910) 451-99-36  
info@optosystems.ru

## PULSE ENERGY VS CHARGING VOLTAGE

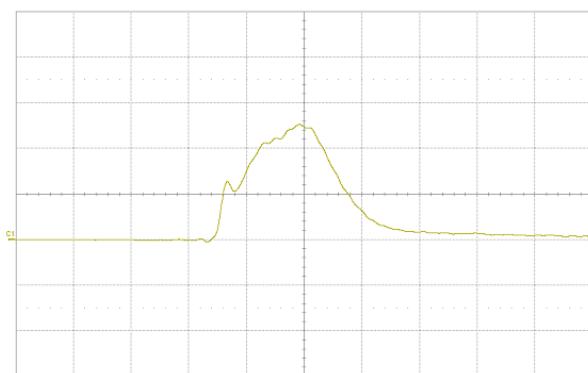


## PULSE SHAPE

- High-Speed Photodetector DET10A/M + 350MHz Oscilloscope LeCroy.
- Pyroelectric Sensors PE50-DIF-U-SH-V2 + Power Meters Nova II.



$U_0=16\text{kV}$ ,  $E=158\text{mJ}$ ,  $T_{1/2}=147\text{ns}$



$U_0=24\text{kV}$ ,  $E=280\text{mJ}$ ,  $T_{1/2}=180\text{ns}$

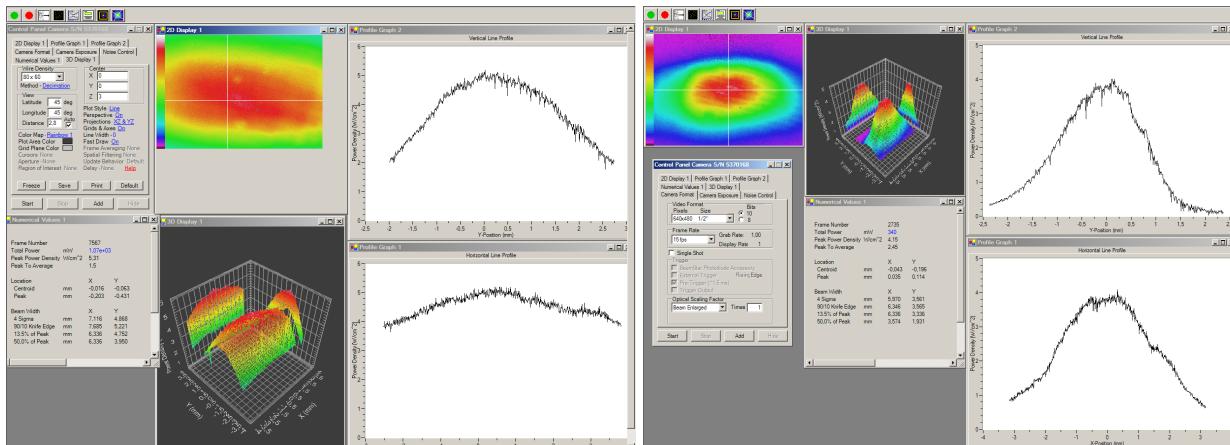
# CL 7308

EXCIMER XeCL-LASER

Optosystems LTD  
108841, Moscow, Troitsk,  
Kaluzhskoye Shosse, 4/1  
T +7 (910) 451-99-36  
info@optosystems.ru

Laser Model 7308 has good symmetry of laser beam (dimensions and divergency) for coupling with optical fiber. Laser has two versions for beam specification

	Standard specification	Optionally
Beam size (V x H), mm	22 x 14	14 x 14
Divergency (V x H), mrad	2,6 x 1,4	1,4 x 1,4



## BEAM PROFILE

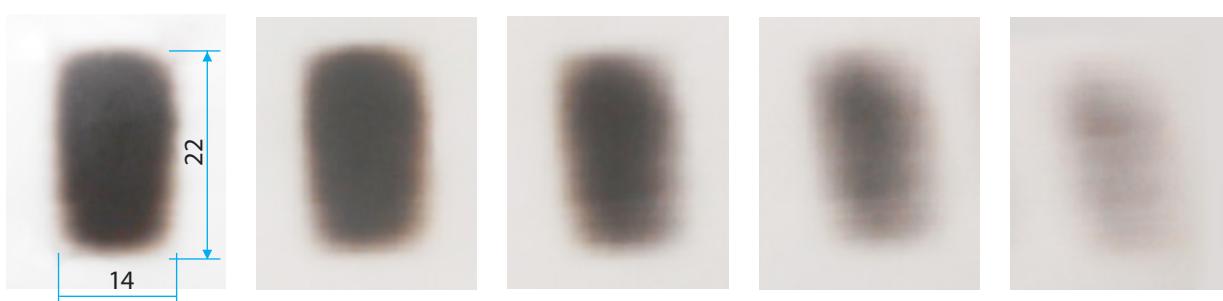
Measured by BEAMSTAR FX-50  
(Laser Beam Profilers OPHIR)

## BEAM DIVERGENCE

Measured by BEAMSTAR FX-50  
(Laser Beam Profilers OPHIR)  
at focal point of mirror with R=2700 mm

## BEAM PHOTO ( THERMAL PAPER)

At 850mm from output aperture



300 pulses

100 pulses

30 pulses

10 pulses

3 pulses

# CL 7308

EXCIMER XeCL-LASER

Optosystems LTD  
108841, Moscow, Troitsk,  
Kaluzhskoye Shosse, 4/1  
T +7 (910) 451-99-36  
info@optosystems.ru

## DIMENSIONS

