

## Nondispersive Fast Laser Shutter

Our fastest in the market High Power Laser Shutter are designed for single interruption or multiple exposure of high power laser beam (up to 200W) in spectral region from UV to middle IR. Operation of Laser Shutter is based on the fast Galvanomagnetic Scanner incorporated in the original optical scheme ensuring extremely high speed of blanking achieving open/close time even 25mks. Shutter could be used for single pulse pick-up from kilohertz pulse series as well.

Due to a simple synchronization with external devices (RS232 or USB port) our shutter is especially useful for the computer controlled material processing (drilling, cutting, etc), beam positioning in few targets, wide range research applications (vacuum versions available). Shutter can operate in "Master" or "Slave" mode, also can be used as a beam intensity modulator or positioner.

Nondispersive type Shutter is based on mirror system.

*Possible applications: laser cutting, drilling, engraving, laser surgery systems, research and others.*

### *Specifications*

o Incident beam diameter	<30 mm
o Wavelength	226,355,532,800,1064,10600nm or other
o Laser beam polarization	Independent
o Average laser power, max	200W
o Laser operation mode (cw or pulse)	Independent
o Switching frequency range, max	0-500Hz
o Switching time (closed-opened)	<100mks
o Typical switching time (opened-opened)	<500mks
o Scanner angular stability	8mrad
o Control via RS232	Yes
o Control via USB port (optional)	Yes
o Control from external (0-5V) generator	Yes
o Control from internal (0-5V) generator	Yes
o Manual control	Yes
o Manual switching	Yes
o Shutter position indication	Yes
o Sinchro output (Master mode)	Yes
o Delay tuning between shutter and external device	Yes
o Transmittance in „Open“ position	>99%
o Transmittance in „Close“ position	<0.1%
o Shutter dimensions, max	185*40*60mm
o Electronic box, max	255*160*86mm
o Electrical power consumption	30W