



OCV-6300F. Compact Optical Chopper

- 6...6300 Hz modulation frequency
- Sync output
- High frequency stability
- Small footprint
- Integrated frequency indicator



The OCV-6300F optical chopper with a 60-slot blade

Product overview

An optomechanical modulator (aka an optical chopper) is widely used in different optical experiments. It modulates different light sources with given frequency for their subsequent analysis. The joint use of the optical chopper with the lock-in amplifier greatly facilitates low-amplitude signal detection against high-level background noise. The exchangeable blades selection offers wide modulation frequency range.

The OCV-6300F model features a built-in visual frequency indicator that allows precise selection of the chopping frequency without any external devices. The unit also has a sync output.

The standard supply package includes modulator driver, power supply and 1 blade of customer's choice. Additional blades are ordered separately.

OCV general specifications

	OCV-6300F
Total chopping frequency range (w. various blades)	6...6300 Hz
Drive rotation frequency range	3-63 Hz
Drive rotation stability*	±0.2 %
Phase jitter per blade rotation	±0.3 °
Chopping frequency indication	built-in indicator, accuracy ±1 Hz
Output sync signal level at BNC connector	+5 V (TTL)
Power supply (AC-DC adapter, 12 V, 0.35 A)	110-230 V
Power consumption	<4 W
Dimensions (LxWxH)	90x102x145 mm

* - typical; after proper warm-up; at constant ambient temperature.

Available blades

Blade type	Chopping frequency	Max. clear aperture
2-slot	6-124 Hz	24.4 mm
10-slot	30-630 Hz	13.2 mm
30-slot	90-1890 Hz	4.8 mm
60-slot	180-3780 Hz	2.4 mm
100-slot blade	300-6300 Hz	1.5 mm



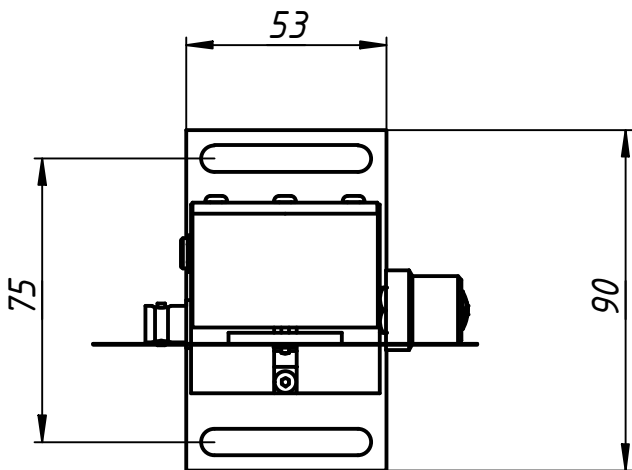
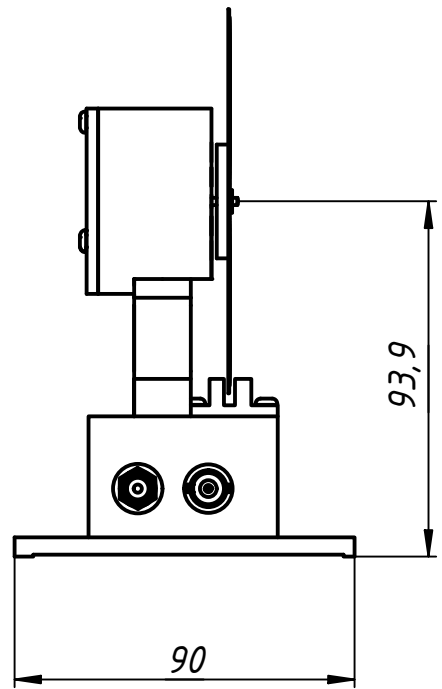
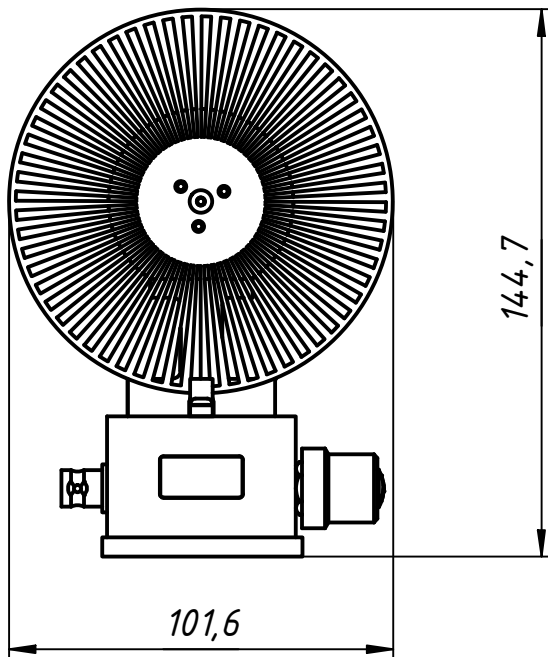
AVESTA

LASERS AND OPTICAL SYSTEMS



Avesta Project Ltd.,
11 Fizicheskaya Street
Troitsk, 108840, Moscow, Russia
Tel.: +7 (495) 241-00-92

fs@avesta.ru
www.avesta.ru



OCV-6300F dimensions in mm