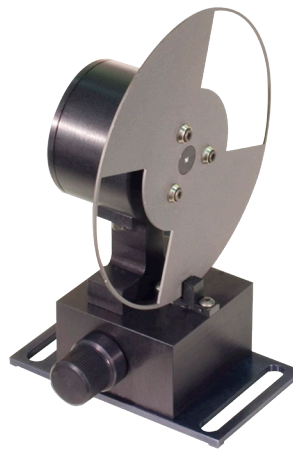




# OCV-6300. Compact Optical Chopper

- 14-6300 Hz modulation frequency
- Sync output
- High frequency stability
- Small footprint
- The OCV-6300F model with a frequency indicator



OCV-6300



OCV-6300F

## 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-6300 is the simplest model without visual indication of modulation frequency, but it has a sync output.

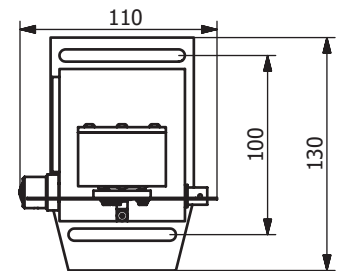
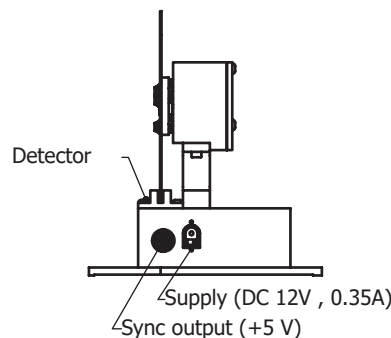
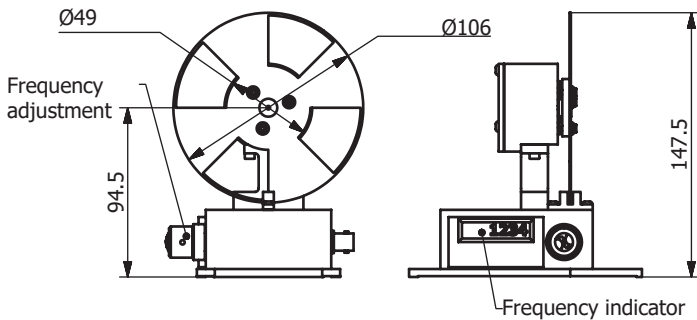
The OCV-6300F model features a built-in visual frequency indicator that allows precise selection of the chopping frequency without any external devices. The unit also has a sync output.

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

## OCV specifications

	OCV-6300	OCV-6300F
<b>Frequency range</b>	14-6300 Hz	
<b>Chopping frequency with 2-slot blade</b>	14-120 Hz	
<b>Chopping frequency with 10-slot blade</b>	30-600 Hz	
<b>Chopping frequency with 30-slot blade</b>	120-1900 Hz	
<b>Chopping frequency with 60-slot blade</b>	150-3700 Hz	
<b>Chopping frequency with 100-slot blade</b>	260-6300* Hz	
<b>Output sync signal level at BNC connector</b>	+5 V (50 ohm)	
<b>Frequency indication</b>	no	built-in indicator
<b>Frequency setting accuracy</b>	1 Hz	0.5 Hz
<b>Power supply (AC-DC adapter, 12 V, 0.35 A)</b>	110-230 V	
<b>Power consumption</b>	<4 W	
<b>Dimensions (WxLxH)</b>	87x90x146 mm	104x87x148 mm

\* - the clear aperture with this blade is 1.5 mm.



OCV-6300F dimensions in mm

