

OCP

ADVANCED OPTICAL MONITORING SYSTEMS



Main features

Fully automation of multilayer coatings for high precision optics

Optimization of optical design during coating process to avoid errors (for OCP BroadBand only)

System software allows to load coating designs from various coating design programs

Integration to coater control system

High spectral resolution

Various monitor types

Full service support

Product family

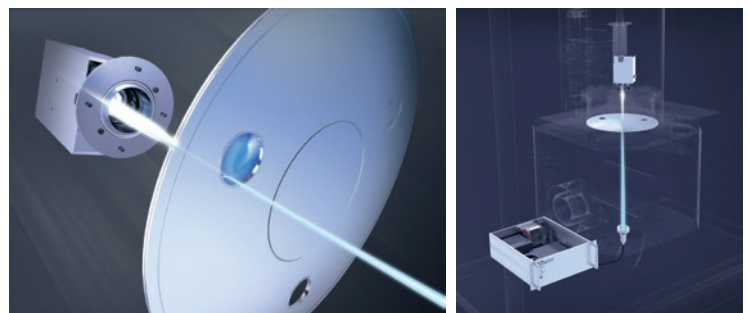
OCP BroadBand

Deposition process control via broadband spectrum measurements and analysis

OCP SingleWave

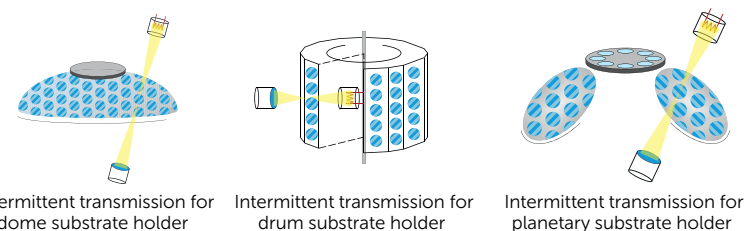
Deposition process control at the predefined wavelength

I-Photonics works in the area of precision thin film optical coatings deposition since more than 25 years. The accumulated experience allows us to create optical monitoring systems with unique parameters which help to obtain sophisticated multilayer optical stacks. Our developed monitors are easily to be integrated in hardware and software solutions which provide a fully automatic control over all the types of optical coating deposition for different types of vacuum equipment covering a wide optical range.



Monitor types

Direct monitor



Indirect monitor



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OCP type	Control type	Applications	Coating types	Spectral ranges, nm
SingleWave	Deposition process monitor at the selected wavelength	Any types of optical coaters (IBAD, Thermal evaporation, Magnetron Sputtering, IBS, PARMS)	Any type of coatings. Most suitable for narrow band-pass filters	380-1100 - base range 220-1100 - with UV extension 380-1650 - with NIR1 extension 380-2500 - with NIR1+NIR2 extensions
BroadBand	Deposition process monitor via broad band spectrum measurements and analysis	IBS, Magnetron Sputtering, PARMS coaters	Polarizers, mirrors, AR coatings, long pass, short-pass, band-pass filters	380-1080 - base range 380-1650 - with NIR1 extension

OCP configuration circuit

OCP system is integrated to coater control system to provide fully automation mode with intellectual real-time optimization that controls the current result of coating and in case of deviation from the target recalculates and makes correction to next layers.

*Intellectual real-time optimization is available for OCP BroadBand only.

