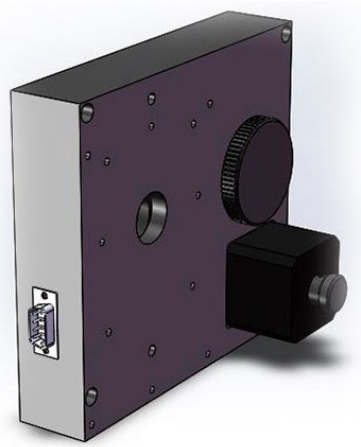
SD25 Series Motorized Filter Wheels, Six Positions, Ø25 mm Filters

Model SD25 Series · waveqvanta.com/products/sd25-series-motorized-filter-wheels

Six-position stepper-driven filter wheels that switch filters automatically on Omni-λ monochromators and spectrographs.



The SD25 is a compact six-position filter wheel for 25 mm diameter filters with a 22 mm clear aperture. A stepper motor turns the wheel under command of the monochromator/spectrograph controller, so filter changes are handled together with the wavelength scan in the control software. Versions are available empty or pre-loaded with filter sets for ranges from 200–1500 nm up to 1300–12000 nm.

Key features

- Six filter positions for Ø25 mm filters, 22 mm clear aperture
- Stepper motor drive controlled through the monochromator/spectrograph controller
- Integrates with Omni-λ series monochromators/spectrographs and their control software
- Empty version (SD25 / SD25-R) for user-fitted filters, or pre-loaded filter sets
- Pre-loaded sets cover 200–1500, 200–2000, 400–3000, 650–5000, 800–8000 and 1300–12000 nm
- SD25 series fits Omni-λ300i/500i/750i; SD25-R series fits Omni-λ200i and the SAC-FLUO sample chamber

Specifications

Positions	6
Filter Size	Ø25 mm
Clear Aperture	22 mm
Drive	Stepper motor, driven by the monochromator/spectrograph controller
Spectral Range of Filter Sets	200–1500 nm to 1300–12000 nm, depending on model
Compatibility, SD25 Series	Omni-λ300i, Omni-λ500i, Omni-λ750i
Compatibility, SD25-R Series	Omni-λ200i and SAC-FLUO sample chamber only

Model overview

Model (SD25)	Model (SD25-R)	Spectral Range (nm)	Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5	Pos. 6
SD25	SD25-R	No filters fitted	User Ø25 mm	User Ø25 mm	User Ø25 mm	User Ø25 mm	User Ø25 mm	User Ø25 mm
SD25-IR1	SD25-IR1-R	200–1500	None	SD-G1-25	SD-G2-25	SD-G3-25	SD-G4-25	SD-G5-25
SD25-IR2	SD25-IR2-R	200–2000	None	SD-G1-25	SD-G2-25	SD-G3-25	SD-G4-25	SD-G6-25
SD25-IR3	SD25-IR3-R	400–3000	None	SD-G2-25	SD-G3-25	SD-G4-25	SD-G6-25	SD-G7-25
SD25-IR5	SD25-IR5-R	650–5000	None	SD-G3-25	SD-G4-25	SD-G6-25	SD-G7-25	SD-G8-25
SD25-IR8	SD25-IR8-R	800–8000	None	SD-G4-25	SD-G6-25	SD-G7-25	SD-G8-25	SD-G9-25
SD25-IR12	SD25-IR12-R	1300–12000	None	SD-G6-25	SD-G7-25	SD-G8-25	SD-G9-25	SD-G10-25

Typical applications

- Automatic filter switching during monochromator wavelength scans
- Suppression of higher diffraction orders in grating instruments
- UV to mid-infrared spectral measurements
- Automated spectroscopy systems