Single Monochromator
CMS-100

Fast single monochromator with Czerny-Turner design

Features

- Tuning wavelength from 250nm to 900nm with our light source
- Monochromatic light (Resolution: 2.6nm~)
- Fast monochromator (F/2.8)
- Adjustable slit width
- Selectable blaze wavelength
- External touch panel controller
Blaze Wavelength and Diffraction Efficiency (Groove density 1200g/mm)

1: Blaze wavelength: 250nm

2: Blaze wavelength: 400nm

3: Blaze wavelength: 500nm

*Groove density 600g/mm is also available.

Options

- RS485 cable
- Adapter cable
- Collimator lens unit
- Lens unit for emitting the parallel light

General Specifications

Model: CMS-100
Optical configuration: Czerny-Turner
Focal length: 100mm
F-number: F/2.8
Wavelength range: 220 - 900nm (Effective range)
Reciprocal linear dispersion: 8.3nm/mm (at 550nm)
Resolution: 1) 2.6nm 2) 4.3nm 3) 8.6nm
Wavelength accuracy: ±1.0nm *1
Wavelength reproducibility: ±0.2nm *1
Minimum step: 0.1nm (Pulse motor drive)
Grating: Size 40 x 40mm
Clear aperture 36 x 36mm
Groove density 1200g/mm
Blaze wavelength 250nm, 400nm, 500nm *Select 1 type.
*It depends on the slit width. (Calculated value at 546.1nm)
Wavelength reproducibility: ±0.2nm *1
Minimum step: 0.1nm (Pulse motor drive)
Scanning method: Sine-bar
Driving method: Pulsed motor drive
Input voltage: DC12V
AC adapter input range AC100 - 240V 50/60Hz
Apparent power: Less than 15VA (AC100V/50Hz)
Less than 15VA (AC240V/50Hz)
Remote control: RS-485 and adapter cable
Recommended environment: Temperature 10 - 35 deg C
Humidity less than 70% *Avoid condensation
Dimensions: Main unit 231(W) x 175(D) x 143(H)mm
Controller 160(W) x 100(D) x 47(H)mm
Weight: Main unit 5.6kg
Controller 0.7kg (Not including cable)
*1 Room temperature: 25 deg C

Package Contents

- CMS-100 main unit
- Controller
- Controller cable (1.8m)
- AC adapter
- Instruction manual
- Program control library (API) *Downloadable from our website

Dimensions

Main unit

Entrance slit
Mounting screw for optional part
M4 x 0.75 (Both sides)

Controller

Unit: mm

Unit: mm

*Product specifications are subject to change without notice.