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
**Scope of Delivery**

- CMS-100 main unit
- Controller
- Controller cable (1.8m)
- AC adapter
- Instruction manual

**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**

- Program control library (API) *Downloadable from the website*
- Library for program control of the CMS-100
- 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)
  - *It depends on the grating.
- **Reciprocal linear dispersion:** 8.3nm/mm (at 550nm)
- **Resolution:** 1) 2.6nm 2) 4.3nm 3) 6.6nm
  - *It depends on the slit width. (Calculated value at 546.1nm)
- **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 *1
  - *It can be selected automatically by controller.
- **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:** RS485 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 102(D) x 47(H)mm
- **Weight:**
  - Main unit 5.6kg
  - Controller 0.7kg (Not including cable)
  - *1 Room temperature: 25 deg C

**Dimensions**

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

**Options**

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