

# Monochromator CMS-101

Monochromator covering a broad wavelength range from 250 to 1800nm, optimized for connection to light sources

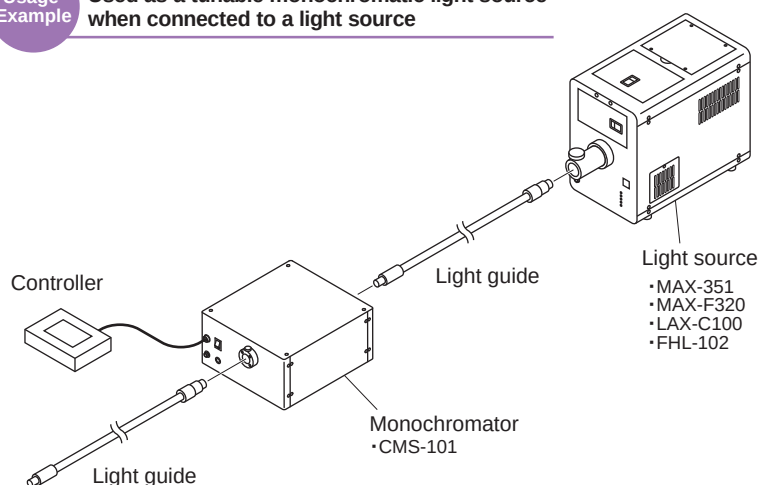


## Features

- Covers a wide wavelength range from 250 to 1800 nm (UV to NIR)
- Switchable resolution: 5nm/10nm
- Built-in automatic higher-order light cut filter
- Easy connection to light sources via light guide
- Easy operation using the dedicated controller

### Usage Example

Used as a tunable monochromatic light source  
when connected to a light source



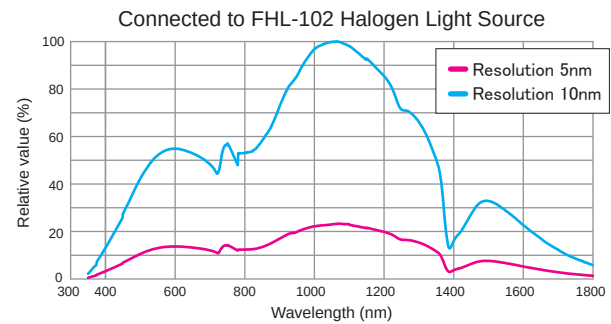
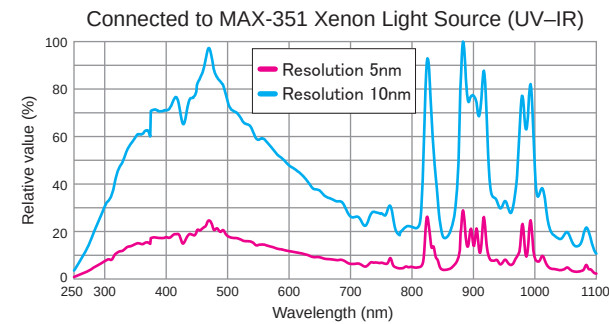
## Applications

- **Material evaluation**  
(Semiconductors, fluorescent materials, biological samples)
- **Prober illumination**
- **Spectral sensitivity characteristics**  
(CCD/CMOS)
- **Camera calibration**
- **Excitation light source**

...and other applications

# Reference Data

## Spectral Distribution with Light Source Connected



## General Specifications

Model: CMS-101  
Optical configuration: Czerny-Turner  
Focal length: 100mm  
F-number: F4.0  
Grating: Groove density: Side A 1200g/mm Side B 600g/mm  
Blaze wavelength: Side A 400nm Side B 1000nm  
Wavelength range: Side A 0 - 780nm Side B 780.1 - 1800nm

Wavelength range (Settable range): 0 - 1800nm  
Wavelength range (Effective range): 250 - 1800nm  
Resolution \*1: 5.0nm, 10.0nm  
Wavelength accuracy:  $\pm 1.0\text{nm} \times 2$   
Wavelength reproducibility:  $\pm 0.3\text{nm} \times 2$   
Minimum step: 0.1nm  
Power supply (AC adapter): Input AC100-240V $\pm 10\%$ , 50/60Hz  
Control method: Controller or External control by PC  
Software operating environment: Windows11 (x64)  
Recommended environment: Temperature 10-35 deg C  
Humidity 70% or less \*No condensation

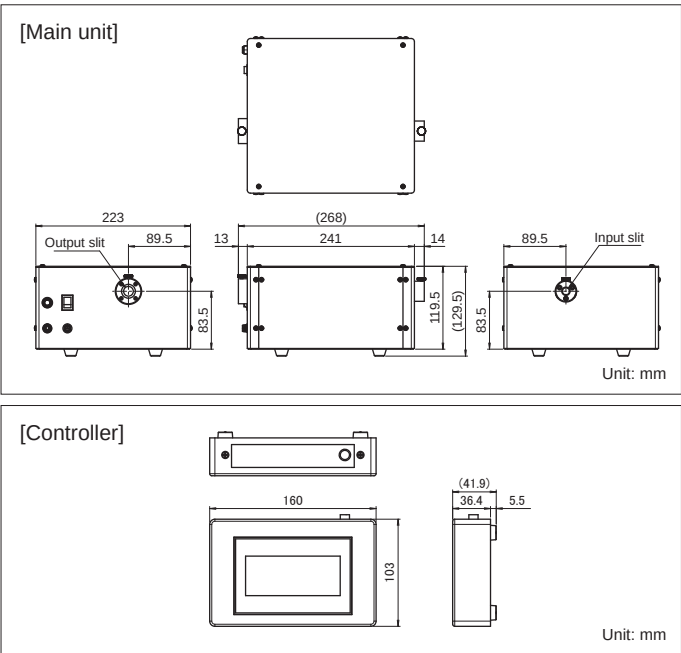
Housing Material: Aluminum, Steel \*3  
Surface treatment: Black Alumite, White painting \*3  
Dimensions: Main unit 223(W) $\times$ 268(D) $\times$ 130(H)mm \*3  
Controller 160(W) $\times$ 103(D) $\times$ 42(H)mm  
Weight: Main unit 5.0kg  
Controller 0.6kg

\*1 Slit switching method  
Resolution: FWHM of 546.1nm (Side A) and 1092.1nm (Side B)  
\*2 Environment: 23.5  $\pm$  2 deg C  
\*3 Excluding fastening components, the DC jack, etc.

## Package Contents

- Main unit
- AC adapter
- Controller
- Instruction manual etc.

## Dimensions



## Options

### Light Source

#### Xenon Light Source

300W : MAX-351 / MAX-F320  
100W : LAX-C100



#### Halogen Light Source

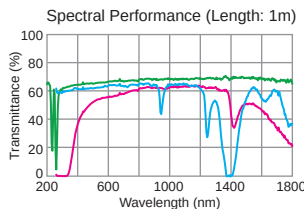
100W : FHL-102



### Light Guide



Quartz Light  
Length(L) : 1m, 2m  
NA : 0.22  
Hybrid Light  
Length(L) : 1m, 2m  
NA : 0.57  
Low OH Light  
Length(L) : 1m, 2m  
NA : 0.22



### Software

This software allows users to control the light source and monochromator simultaneously from a PC.



※Software operating environment : Windows11 Japanese/English

\*Product specifications are subject to change without notice.

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