

# Spectroscope for linear multianode PMT series A10766



# Overview

High sensitivity compact spectrometer A10766 is a polychromator that is specially designed to couple with 32 channel linear array multianode PMT series. The most suitable PMT assembly or PMT module is determined depending upon required spectral range. These PMT assemblies and modules are sold separately.

## Product lineup

Item		A10766
Spectroscope	Grating type	Reflective
	Features	Grating selectable
	Detectable spectral range	300 nm to 900 nm <sup>*1</sup>
	Number of channels	32 ch
Compatible products	PMT module type	H11460 / H11659 series
	PMT assembly type	H7260 series

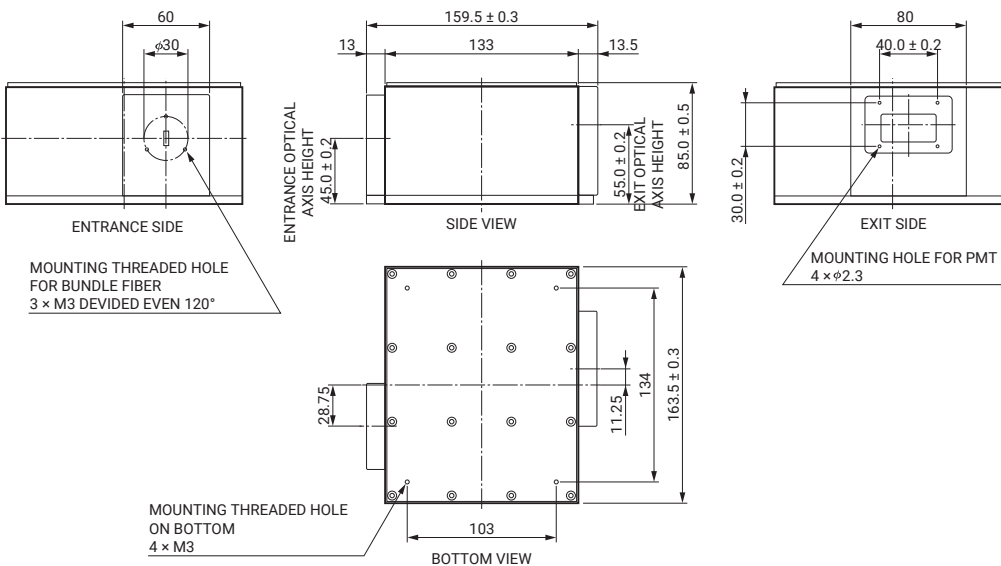
\*1: The actual detectable spectral range is determined by the combination of the selected grating .  
For more detailed information, please refer to the next page.

## General specifications

Parameter		Value			Unit
Spectroscope A10766	Input slit size	0.7 (W) x 7 (H)			mm
	Focal length	Approx. 100			
	F value (NA)	3.3 (0.15)			—
	Spectral range	Min.	300		nm
		Max.	900		
	Grating options	Groove density	600	900	1200
Dispersion <sup>*1</sup>		13.6	8.7	6.3	nm/mm
A10766 + PMT	Spectral width / Channel	13.6	8.7	6.3	nm
	Spectral range	428	275	197	

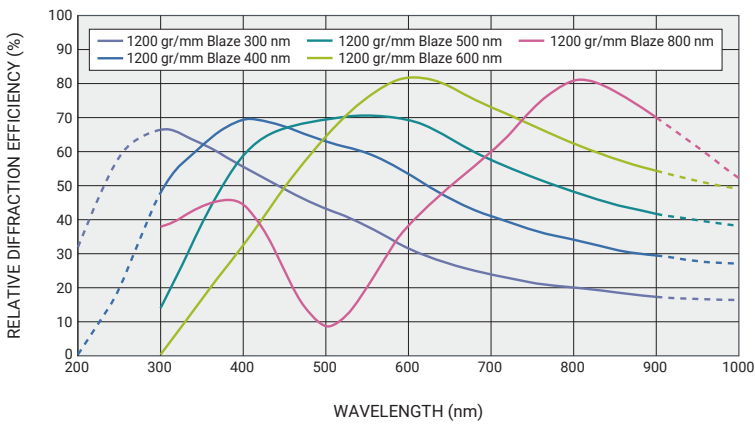
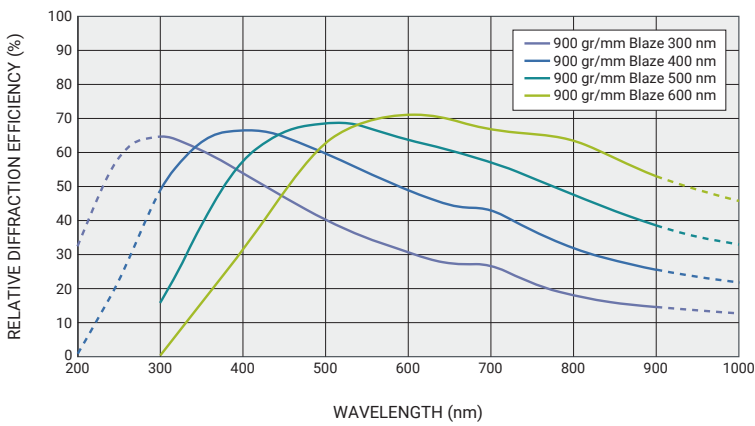
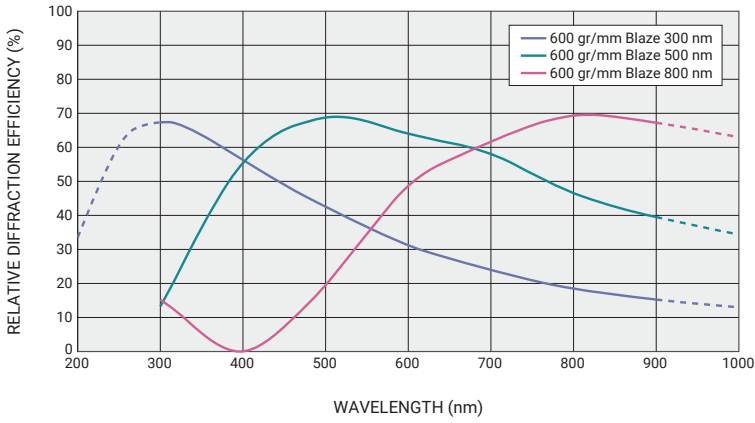
\*1: Dispersion is defined when 500 nm is adjusted at the center channel of PMT, and the value differ depending on the PMT to be combined.  
The unit of dispersion is "nm/mm" that corresponds to "nm/ch" because the channel pitch of the compatible PMT is 1 mm.

## Dimensional outline (Unit: mm)



# Specifications

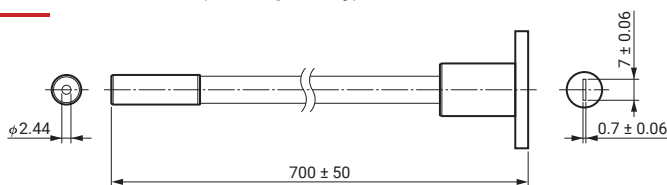
## Grating relative diffraction efficiency curve (Reference range)



**NOTE:** Relative diffraction efficiency simulated in a Littrow mounting with unpolarized light. The diffraction efficiency can vary significantly with the polarization of incident light. These data are obtained by simulated calculation, so this information is furnished for your information only. No warranty, expressed or implied, is created by furnishing this information.

# Accessory (Unit: mm)

## Bundle fiber A12420 (sold separately)



Quartz, NA=0.22, 2.44 mm dia. at input side,  
0.7 mm (W) × 7.0 mm (H) at output side, 700 mm length

