RFFM-16A1 Module

Key parameter:

- White light +415nm+540nm+605nm LED
- White light Ra>90
- White light CCT=5700±500K
- Luminous flux of white light is1050lm
- Output power of 415nm is 2250mW
- Output lumen of 540nm is 310lm
- Output lumen of 605nm is 240lm
- Back focus length 23.6mm

Application and features:

- NBI application
- Aspheric glass lens, higher flux output
- RS232 control system
- Pass EMC test
- 9 output modes

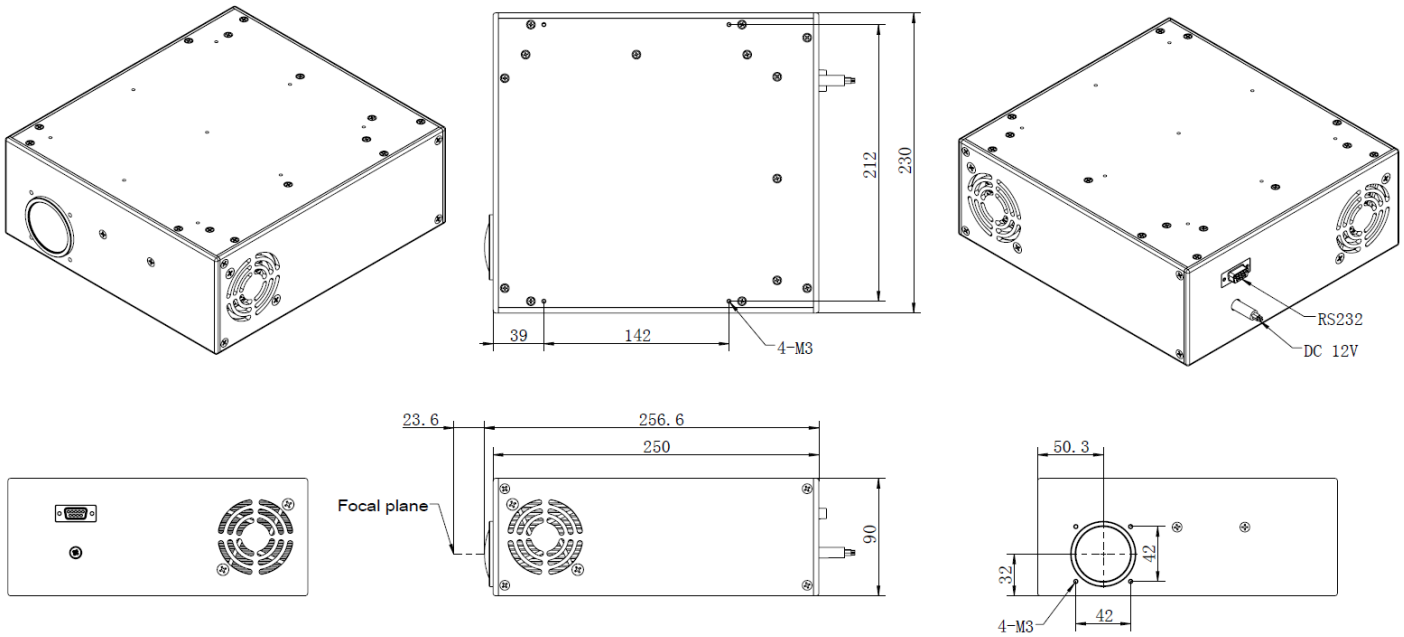
9 output mode	
4 kinds of single light output	White light 415nm 540nm 605nm
5 kinds of compound light output	White light+415nm 415nm+540nm 415nm+605nm 540nm+605nm 415nm+540nm+605nm

Technical Data

Parameter	Min	Typical	Max	Remarks/Conditions
Optical Data				
Light source	White + 415nm+540nm+605nm			LED
Peak wavelength				
CCT	5200 K	5700 K	6200 K	Only white light
Ra	90	93		Only white light
Luminous flux of white light for Φ5mm light guide		1050 lm		NA=0.62, all data is measured out of module

Output power of 415nm		2250mW		
Output lumen of 415nm		9.687lm		
Output lumen of 540nm		310lm		
Output lumen of 605nm		240lm		
Back focus length		23.6mm		From the last lens vertex
Electrical Data				
Input voltage		DC 12 V		For LED white light
Input power		55W		Including driver
Dimming of white light	8%		100%	RS232
Dimming of single-wavelength	8%		100%	RS232
Thermal parameter				
Focal plane temperature of white light		55.6℃		Tip housing temperature of Ø5mm Wolf light guide (indoor temperature at 30℃)
Focal plane temperature of RGB		58.3℃		
Dimensions and Weight				
Dimensions		As drawings		
Net weight		4500g		
Conditions				
Transportation and storage	-20℃		80℃	
Reliability				
Life time of LED		30,000hrs		Tj of LED ≤125℃
Compliance				
IEC 60601-1:2005	Medical electrical equipment - Part 1: General requirements for basic safety an essential performance			

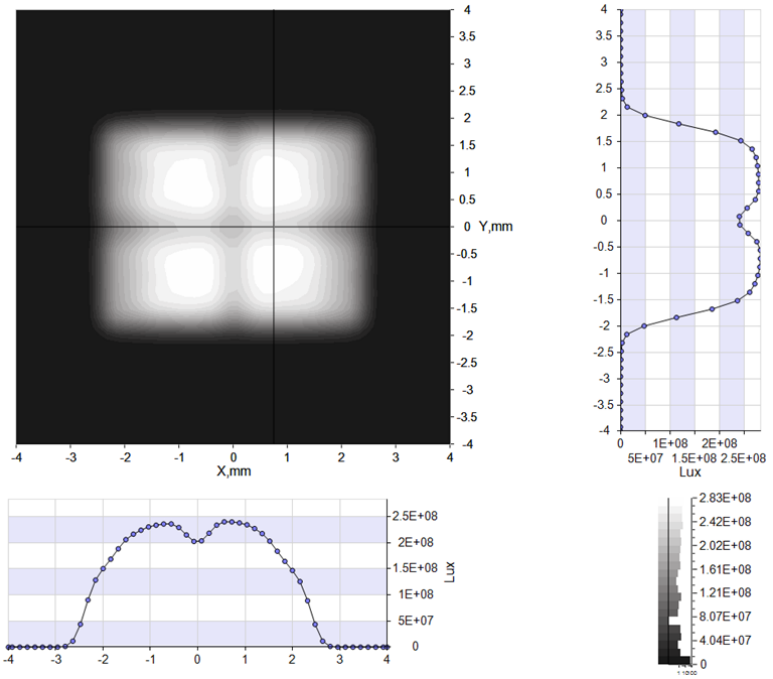
Dimensions of light engine



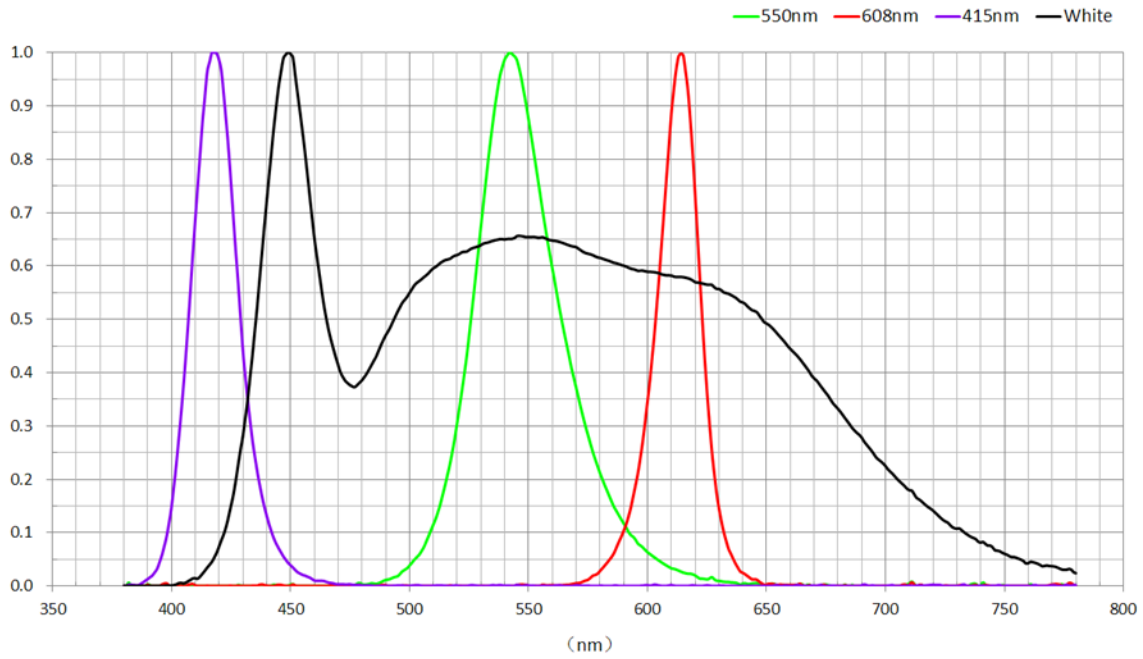
Interface

1. Wire harness for Power Supply;
2. Use RS-232 (DB9) for control;

White light-- Illuminance distribution at focal plane



Spectrum



Warning! ***Keep away from the focus point of light engine, don't watch the light with naked eye!***

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