

## RFFM-16A6 Light Module



### Key parameters:

- White Light+415nm+540nm+785nm
- White Ra≥90
- White light CCT=5500±500K
- Back focus length is 25.6mm
- Luminous flux of white light LED is 2,300lm
- Output power of 415nm LED is 1,800mW
- Output lumen of 540nm LED is 280lm
- Output power of 785 nm LD is 3,500mW

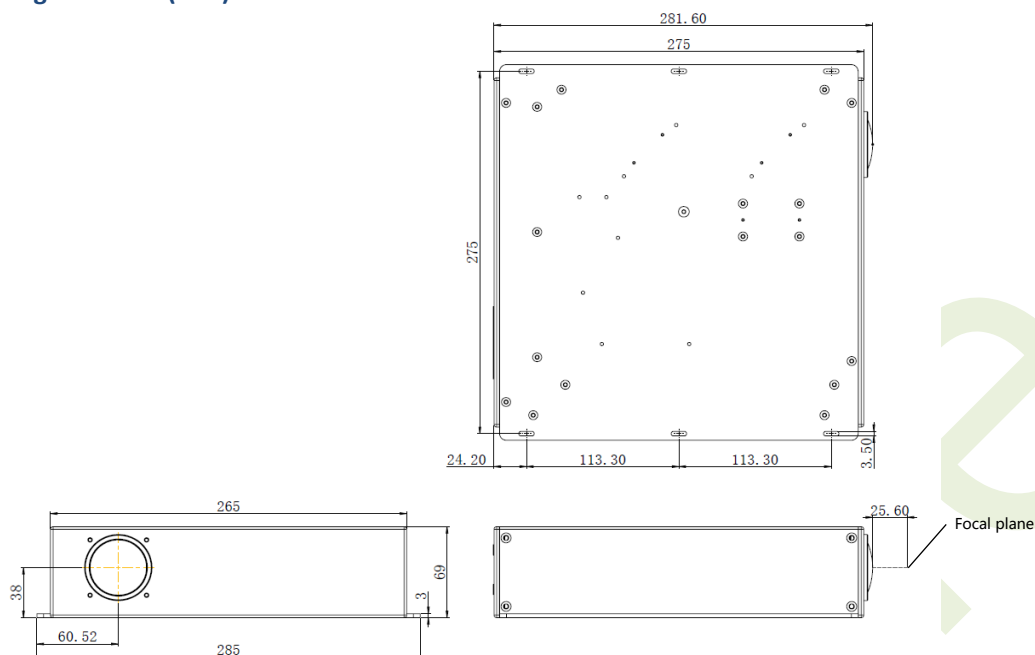
### Application and features:

- With aspheric glass lens, higher flux output and compact size
- White+NBI+NIR-ICG application
- Pass EMC test
- RS232 communication interface
- 11 output mode options

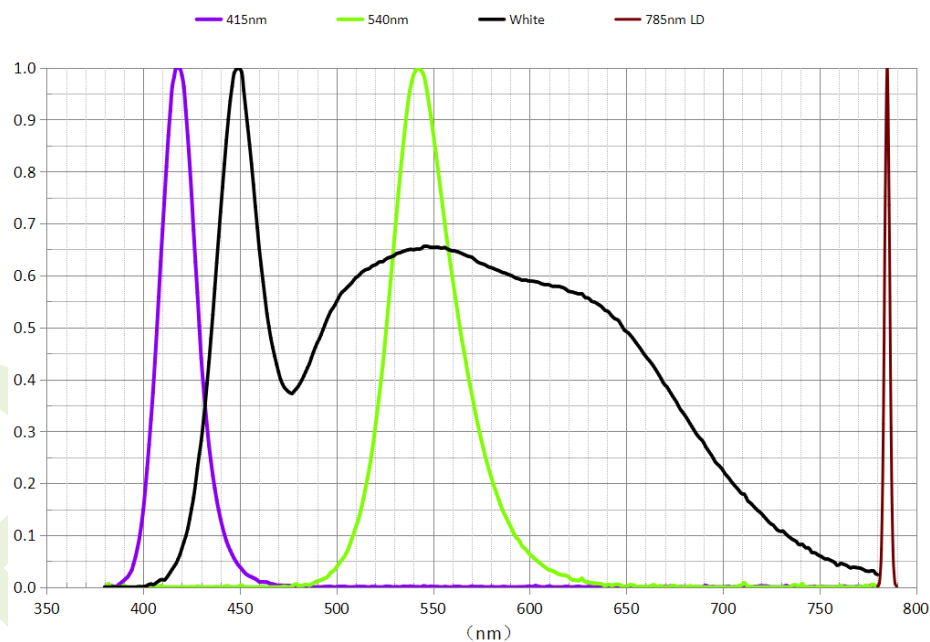
Possible working mode (to be decided by customer)				
4 kinds of single-color light output	White light 415nm deep blue light 540nm green light 785nm NIR			
7 kinds of compound light output	White light+415nm White light+785nm 415nm+540nm 415nm+785nm 540nm+785nm 415nm+540nm+785nm White light+415nm+785nm			
Parameter	Min	Typical	Max	Remarks/Conditions
<b>Optical Data</b>				
Light source	White LED + 415nm LED + 540nm LED + 785nm LD			
CCT of White light	5000K	5500K	6000K	After 1m, NA 0.62, Ø5mm optical fiber
CRI of white light	90	93		After 1m, NA 0.62, Ø5mm optical fiber
Luminous flux of white light		2300 lm		Output after module
Output power of 415nm		1800mW		
Output luminous flux of 540nm		280 lm		
Output power of 785nm		3500 mW		

Back focus length		25.6mm		From the last lens vertex
Electrical Data				
Input voltage		DC 12V		DC24V is optional
Power consumption		200 W		Including driver
LED dimming range	5%		100%	RS232
LD dimming range	5%		100%	RS232
Dimensions and weight				
Dimensions	As drawings			
Weight	4200g			
Working conditions				
Transportation and storge	-20℃		45℃	
Reliability				
Life time of LED		30,000hrs		Tj of LED ≤125℃
Compliance				
IEC 60601-1:2015	Medical electrical equipment - Part 1: General requirements for basic safety an essential performance			
IEC 60601-1-2: 2014	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests			
IEC 61000-4-2:2009	EMC-Part 4-2: testing and measurement method- Electrostatic discharge immunity test			
IEC 61000-4-3:2020	EMC-Part 4-3: testing and measurement method-Radiation, RF, electromagnetic field immunity test			
EN 55011:2016+A2:2021	Industrial, scientific and medical equipment- Limits and measurement methods for RF interference characteristics			
IEC 62321-3-1:2013	RoHS			
IEC 62321-4:2013+AMD1:2017				
IEC 62321-5:2013				
IEC 62321-6:2013				
IEC 62321-7-1:2015				
IEC 62321-7-2:2017				
IEC 62321-8:2017				

### Dimensions of light module(mm):



### Spectrum:



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



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