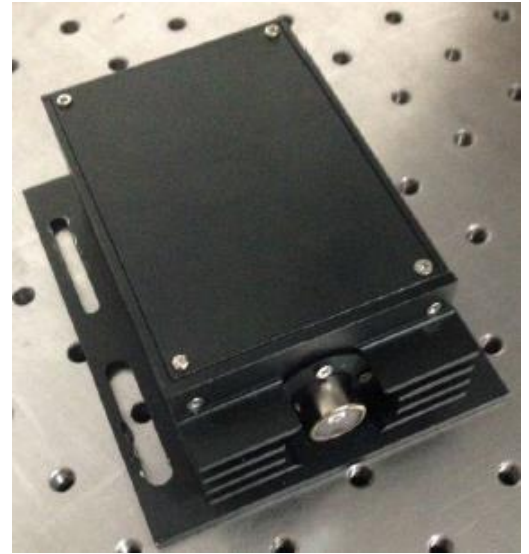
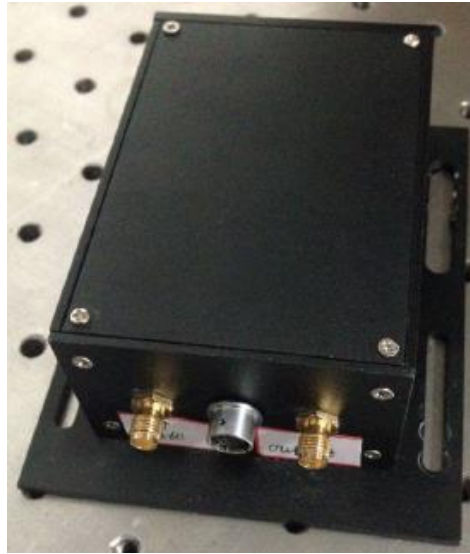




Single Photon Counting Module

SPCM-VIS

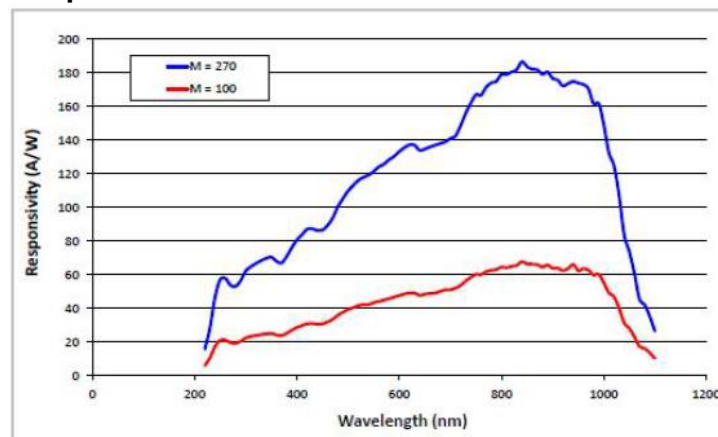


Description

SinglePhotonCountingModule-Visuell (= SPCM-VIS) has been developed to offer high quantum efficiency with a wide dynamic range and they easyness for use of photon counting. Our SPCM-VIS contains everything required for single photon detection in the spectral range between 250nm and 1100nm. Incident photons generate corresponding electrical pulses which can conveniently be read out at the TTL output. The gating function allows the module to be disabled between measurements to provide protection against accidental overload.

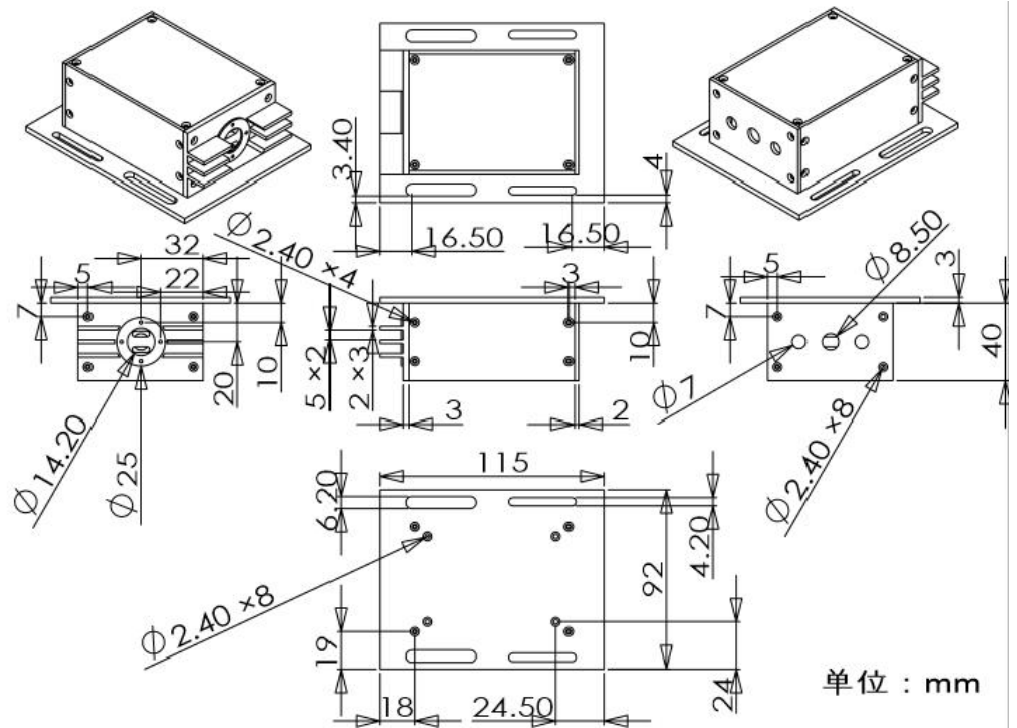
- * Extremely low dark count rates
- * Laser range finder
- * Fluorescence analysis

Spectral response





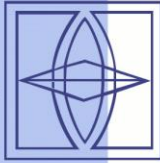
Package Drawing



Electro-Optical Characteristics (@+25°C)

Parameter	Min	Typ	Max	Unit
Active Area, dia		80		μm
Spectral Range	250		1100	nm
Dark Count Rate	I		200	Counts/s
	II		500	Counts/s
	III		1000	Counts/s
	IV		5000	Counts/s
Photon detect Efficiency				
	532nm	55		%
	850nm	40		%
	1064nm	3		%
Time Resolution		800		ps
Afterpulsing Probability		0,5		%
Dead Time		50		ns
Gate	on	TTL low		V
	off	TTL high		V
TTL output pulse length		40		ns
TTL output pulse amplitude @50 Ohm		2,0		V
Supply Voltage	4,5	5,0	5,5	V
Supply Current		0,6		A
Outline Dimensions		104 * 84 * 45		mm

OEC
Opto-Electronic
Components



OEC
YOUR PARTNER

Scientist Comments:

"For many applications a wide and good responsivity of a Geiger mode Si APD is wanted, including a steady increase of responsivity up to well 1000nm. This is astonishingly good, compared to competitors."

"500µm active area is pretty comfortable in size for a Si-APD and thus good to handle".

"The dark count rate (I) with 200 counts/s is quite acceptable".

"The SPCM-VIS is very good value for the money".