



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.

Ref No. (PR No.1000048358)

(RFQ No. 3600002947)

Technical Specifications : (Qty : 01)
Time correlated photo-detector.

Sr. No	Item Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
	A 512X512 SPAD array with a 5V power plug, two USB3 connections, and 2 SMA control lines.			
1	Maximum frame rate	70,000 fps standard system		
2	Peak detection probability	50%@520 nm		
3	Maximum system bandwidth (2x USB-3)	6 Gbps		
4	Median dark count rate	< 25 cps		
5	Power consumption	5-10W		
6	Minimum gate width	6ns		
7	Minimum gate step size	17 ps		
8	Active area size	6x6 um or 16x16 um with microlenses		
9	Microlens efficiency (collimated light)	50%		
10	Wavelength window	400-950 nm		

11	Pixel Pitch	16.38 um		
12	External SMA triggers	frame/gate trigger laser clock		
13	Protective glass window	Yes		
14	Robust metal enclosure	yes		
15	Maximum frame rate (4 bit, semi-continuous)	4300 fps standard system		
16	Maximum frame rate (6 bit, continuous)	1080 fps standard system		
17	Maximum frame rate (7 bit, continuous)	540 fps standard system		
18	Maximum frame rate (8 bit, continuous)	270 fps standard system		
19	Warranty of the system	01 Year		