

3.1.3 User Guide for Choosing the Optimum Beam Profiling System

Laser Wavelength	Power			Minimum Beam Size				
	<100mW	100mW-100W	>100W	<20µm	>20 <50µm	>50µm	>500µm	>1mm
UV-Vis	NS-Si	NS-Pyro		NS-Si/3.5/1.8	NS-Si/9/5	NS-Si/9/5	NS-Si /9/5	NS-Si /9/5
	SP928	SP928	NS-Pyro		NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5
	SP920G/SP920	SP920G/SP920				SP920G/SP920	SP920G/SP920	SP920G/SP920
	LT665	LT665	SP928			SP928	SP928	SP928
			LT665			LT665	LT665	LT665
NIR 1000-1100nm	NS-Ge	NS-Pyro		NS-Ge/3.5/1.8	NS-Ge/9/5	NS-Ge/9/5	NS-Ge/9/5	NS-Ge/9/5
	SP928	SP928	NS-Pyro		NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5
	LT665	LT665	SP928			SP928	SP928/SP907	
Industrial & Additive Fiber	BC	BC	BC, BW		BC	BC, BW	BC, BW	BC
CO2	Pyrocam	Pyrocam						Pyrocam
Telecom and Eye-Safe 1100-1800nm	NS-Ge	NS-Pyro		NS-Ge/3.5/1.8	NS-Ge/9/5	NS-Ge/9/5	NS-Ge/9/5	NS-Ge/9/5
				NS-Pyro	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5
						SP1203	SP1203	SP1203
						SP1201	SP1201	SP1201
					XEVA	XEVA	XEVA	
	Pyrocam	Pyrocam	Pyrocam			Pyrocam	Pyrocam	
1500-1600nm	NS-Ge	NS-Ge	NS-Ge	NS-Ge/3.5/1.8	NS-Ge/9/5	NS-Ge/9/5	Pyrocam	NS-Ge/9/5
							SP1203	SP928-1550
							SP1201	SP1203
	SP928-1550	SP928-1550	SP928-1550			SP928-1550	XEVA	SP1201
	LT665-1550	LT665-1550	LT665-1550			LT665-1550	SP928-1550	XEVA
					LT665-1550	LT665-1550	LT665-1550	
	Pyrocam	NS-Pyro		Pyrocam w/ Beam Expansion	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5
					NS-Pyro/9/5-MIR	NS-Pyro/9/5-MIR	NS-Pyro/9/5-MIR	NS-Pyro/9/5-MIR
MIR & FIR		Pyrocam	NS-Pyro			Pyrocam	Pyrocam	
			Pyrocam					

Abbreviations:
FIR Far Infrared
Ge Germanium
HP High Power
MIR Mid-Infrared
UV-Vis Ultraviolet - Visible
NIR Near Infrared
Si Silicon
SP Indicates camera profiler
NS NanoScan
BC BeamCheck
BW BeamWatch

Laser Wavelength	Minimum Beam Size		CW or Pulsed			Customer Priority				
	>5mm	>10mm	CW	Pulsed <1kHz	Pulsed >1kHz	Cost	2D/3D	No optics	Speed	Ease of use
UV-Vis	Pyrocam	NS-Pyro		Pyrocam w/ Beam Expansion	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5	NS	NS
		Pyrocam	NS-Pyro				Pyrocam	Pyrocam		
			Pyrocam							
			NS	SP928	SP928	SP928	SP928	NS	NS	NS
NIR 1000-1100nm			SP928	LT665	NS		LT665			
	LT665	L11059	LT665		LT665					
							LT665			
Industrial & Additive Fiber	Pyrocam	Pyrocam	Pyrocam	Pyrocam	Pyrocam	NS/Pyrocam	Pyrocam	NS/Pyrocam	Pyrocam	Pyrocam
CO2								NS/Pyrocam		
Telecom and Eye-Safe 1100-1800nm				SP1203	SP1203		SP1203			
				SP1201	SP1201		SP1201			
			NS	XEVA	XEVA	NS	XEVA	NS	NS	NS
					NS		Pyrocam			
	Pyrocam									
1500-1600nm					NS					
				SP1203	SP1203	SP1203				
				SP1201	SP1201	SP1201				
	SP928-1550	LT665-1550	XEVA	XEVA	XEVA	SP928-1550	SP928-1550	NS	NS	NS
	LT665-1550			LT665-1550	LT665-1550		LT665-1550			
			NS	Pyrocam	NS	NS	Pyrocam	NS	NS	NS
MIR & FIR	Pyrocam		Pyrocam		Pyrocam					

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3.1.3 Beam Analysis

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