

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
	SP932U	SP932U	NS-Pyro		NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5
			SP932U			SP932U	SP932U	SP932U
	LT665	LT665						
NIR 1000-1100nm	NS-Ge	NS-Pyro	LT665			LT665	LT665	LT665
	SP932U	SP932U	BW	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
	LT665	LT665	SP932U			SP932U	SP932U	
Industrial & Additive								
Fiber			BW			BW	BW	
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
	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	SP203P
							SP1201	SP1203
	SP203P	SP203P	SP203P					SP1201
	LT665-1550	LT665-1550	LT665-1550				SP203P	
						LT665-1550	LT665-1550	
MIR & FIR	Pyrocam	NS-Pyro		Pyrocam w/ Beam Expansion	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5	NS-Pyro/9/5
		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
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							
NIR 1000-1100nm			NS	SP932U	SP932U	SP932U	SP932U	NS	NS	NS
	BW		SP932U					BW		
	LT665	SP504S		LT665	NS		LT665			
		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			NS		NS	NS	NS
						NS		Pyrocam		
	Pyrocam									
1500-1600nm					NS					
			SP1203	SP1203	SP1203					
			SP1201	SP1201	SP1201					
	SP203P	LT665-1550				SP203P	SP203P	NS	NS	NS
LT665-1550			LT665-1550	LT665-1550		LT665-1550				
MIR & FIR			NS	Pyrocam	NS	NS	Pyrocam	NS	NS	NS
	Pyrocam		Pyrocam		Pyrocam					

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