

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
	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	MC					Pyrocam, MC
	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
Telecom and Eye-Safe 1100-1800nm						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
	SP928-1550	SP928-1550	SP928-1550			SP928-1550	XEVA	SP928-1550
	LT665-1550	LT665-1550	LT665-1550			LT665-1550	SP928-1550	XEVA
							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
		Pyrocam	NS-Pyro				Pyrocam	Pyrocam
MIR & FIR			Pyrocam					
			ModeCheck					

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
MC ModeCheck

Laser Wavelength	Minimum Beam Size		CW or Pulsed			Customer Priority				
	>5mm	>10mm	CW	Pulsed <1kHz	Pulsed >1kHz	Price	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-Ge/12/25		NS	SP928	SP928	SP928	SP928	NS	NS	NS
NIR 1000-1100nm	NS-Pyro/20/25	NS-Pyro/20/25	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	MC	MC	MC	MC	MC	MC	MC	NS/Pyrocam	MC	MC
Telecom and Eye-Safe 1100-1800nm	NS-Ge/12/25		NS	XEVA	XEVA	NS	XEVA	NS	NS	NS
	NS-Pyro/20/25	NS-Pyro/20/25			NS		Pyrocam			
	Pyrocam									
1500-1600nm	NS-Ge/12/25	NS-Pyro/20/25			NS					
	SP928-1550	LT665-1550	XEVA	XEVA	XEVA	SP928-1550	SP928-1550	NS	NS	NS
	LT665-1550			LT665-1550	LT665-1550		LT665-1550			
	NS-Pyro/20/25	NS-Pyro/20/25	NS	Pyrocam	NS	NS	Pyrocam	NS	NS	NS
MIR & FIR	Pyrocam		Pyrocam		Pyrocam					

Abbreviations:

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