

Sr. No.	Description	Qty. (Nos.)
1	<p><b>Nd: YAG Harmonic Separator</b> (dia=25.4mm, substrate: fused silica, surface flatness: <math>\lambda/10</math>, thickness: <math>625 \pm 0.2</math>mm, angle of incidence: 45 deg).</p> <ul style="list-style-type: none"> <li>i. Reflective @ 266nm Transmissive @ 355nm, 532nm, 1064nm</li> <li>ii. Reflective @ 355nm Transmissive @ 532nm, 1064nm</li> <li>iii. Reflective @ 532nm Transmissive @ 1064nm</li> </ul>	Total = 3 (1 each)
2	<p><b>Laser beam Expander for second and third harmonic of Nd: YAG Laser (20Hz, Max. Energy 120mJ, 5ns Pulse)</b></p> <ul style="list-style-type: none"> <li>i. <math>\lambda=355</math>nm, expansion 2 X – 6X, Length <math>\leq 180</math>mm, housing dia ~ 50mm, Entrance aperture <math>\geq 12</math>mm, Exit Aperture <math>\geq 25</math>mm.</li> <li>ii. <math>\lambda=532</math>nm, expansion 2 X – 6X, Length <math>\leq 180</math>mm, housing dia ~ 50mm, Entrance aperture <math>\geq 12</math>mm, Exit Aperture <math>\geq 25</math>mm.</li> <li>iii. Mounting Clamps and thread adaptor for above expanders.</li> </ul>	Total = 2 (1 each)  (2 each)
3	<p><b>ZnSe Lens</b> Type: Plano Convex, Dia = 127mm, Wide band AR coating 3 – 12 <math>\mu</math>m, Transmission <math>\geq 95-99\%</math>, focal length 250 – 300mm, Surface accuracy <math>\lambda/4</math> at 633nm.</p>	1
[Detail of specification is attached at page-3]		

Specification Sheet:

1.	Nd:YAG Harmonic Separator			
	Specifications:			
		Item 1	Item 2	Item 3
	Reflective @	266nm	355nm	532nm
	Transmissive @	355nm, 532nm, 1064nm	532nm, 1064nm	1064nm
	Diameter	25.4mm±0.2mm	25.4mm±0.2mm	25.4mm±0.2mm
	Angle of incidence	45deg	45deg	45deg
	Thickness	6.35±0.2mm	6.35±0.2mm	6.35±0.2mm
	Flatness	λ/10	λ/10	λ/10
	Substrate	Fused silica	Fused silica	Fused silica
Quantity	01	01	01	
2.	Laser beam Expander for second and third harmonic of Nd:YAG Laser (20Hz, Max. Energy 120mJ, 5ns Pulse)			
	Required Specifications:			
		Item 1	Item 2	
	Wavelength	355nm	532nm	
	Expansion	2 X-6X	2 X-6X	
	Max. Energy for 5ns laser pulse	100mJ,	150mJ	
	Length	≤180mm	≤180mm	
	Housing diameter	~50mm	~50mm	
	Entrance aperture	≥12mm	≥12mm	
	Exit Aperture	≥25mm	≥25mm	
Substrate	fused silica	fused silica		
Quantity	01	01		
Required accessories	Mounting Clamps and thread adapter for above expanders			
3.	ZnSe Lens (Wide-band AR coating 3-12μm)			
	Required Specifications:			
	Material	ZnSe		
	Type:	Plano Convex,		
	Diameter:	127mm ± 0.2mm		
	Transmission	≥95% @ 10 μm		
	Focal length	250 - 300 mm ± 2%		
	Surface cosmetic	60:40 scratches per dig		
Surface accuracy	λ/4 @ 633nm			
Quantity	01			