

Protect eyes from accidental exposure to scattered lasers. Appropriate for use in enclosures or laser machine windows.



- Designed for safety and adjustments.
- High optical density blocks lasers.
- Can be applied to partial windows, inset windows or partitions in laser controlled areas.
- Effective safety measure to prevent potential injuries from unexpected visitors.

Guide

- ▶ Contact us for custom sizes or shapes.
- ▶ Replace laser safety windows periodically.

Attention

- ▶ Do not use with incompatible lasers or wavelengths (even if laser are same, their wavelengths might be different.)
- ▶ Do not use if damaged or has already been exposed to laser energy.
- ▶ Do not irradiate the laser beam directly at laser safety windows because it may damage them.
- ▶ These are not protective equipments that completely absorb laser light. [Reference](#) Absorption characteristic graph H016
- ▶ Do not directly look into the laser beam through laser safety windows.

Part Number	Compatible Laser	Wavelength [nm]	Optical Density [OD]	Color	Visible Light Transmittance [%]	External Dimensions [mm]	Thickness t [mm]	Weight [kg]
YL-500P-AR(1)	Ar	190 – 380 441.6 488 514.5	4<	Orange	60	100× 100	3	0.04
YL-500P-AR(2)						100× 150	3	0.07
YL-500P-AR(3)						200× 200	3	0.16
YL-500P-AR(4)						250× 300	3	0.3
YL-500P-AR(5)						300× 300	3	0.36
YL-500P-AR(7)						400× 400	3	0.64
YL-500P-Y2(1)	YAG2 ω	480 – 540 532	6<	Red	15	100× 100	3	0.04
YL-500P-Y2(2)						100× 150	3	0.07
YL-500P-Y2(3)						200× 200	3	0.16
YL-500P-Y2(4)						250× 300	3	0.3
YL-500P-Y2(5)						300× 300	3	0.36
YL-500P-Y2(7)						400× 400	3	0.64
YL-500P-LD(1)	LD	632.8 760 – 850	5<	Blue	7	100× 100	3	0.04
YL-500P-LD(2)						100× 150	3	0.07
YL-500P-LD(3)						200× 200	3	0.16
YL-500P-LD(4)						250× 300	3	0.3
YL-500P-LD(5)						300× 300	3	0.36
YL-500P-LD(7)						400× 400	3	0.64
YL-500P-Y1(11)	YAG	1064	5<	Green	25	100× 100	3.5	0.04
YL-500P-Y1(12)						100× 150	3.5	0.07
YL-500P-Y1(13)						200× 200	3.5	0.16
YL-500P-Y1(14)						250× 300	3.5	0.3
YL-500P-Y1(15)						300× 300	3.5	0.36
YL-500P-Y1(16)						400× 400	3.5	0.65
YL-500P-Y1(17)						500× 600	3.5	1.2
YL-500P-Y1(18)						1,000×1,200	3.5	4.8
YL-500P-Fiber(11)						100× 100	3.5	0.04
YL-500P-Fiber(12)						100× 150	3.5	0.07
YL-500P-Fiber(13)	NIR	930 – 1170 1060 – 1130	5< 7<	Green	40	200× 200	3.5	0.16
YL-500P-Fiber(14)						250× 300	3.5	0.30
YL-500P-Fiber(15)						300× 300	3.5	0.36
YL-500P-Fiber(16)						400× 400	3.5	0.65
YL-500P-Fiber(17)						500× 600	3.5	1.2
YL-500P-Fiber(18)						1,000×1,200	3.5	4.8
YL-500P-CO2(1)	CO ₂	10600	10<	Green	60	100× 100	4	0.05
YL-500P-CO2(2)						100× 150	4	0.08
YL-500P-CO2(3)						200× 200	4	0.2
YL-500P-CO2(4)						250× 300	4	0.37
YL-500P-CO2(5)						300× 300	4	0.45
YL-500P-CO2(7)						400× 400	4	0.8
YL-550C-Y2(1)	YAG	1064 532 266 – 355	6< 4< 10<	Amber	40	100× 100	3	0.04
YL-550C-Y2(2)						100× 150	3	0.07
YL-550C-Y2(3)						200× 200	3	0.16
YL-550C-Y2(4)						250× 300	3	0.30
YL-550C-Y2(5)						300× 300	3	0.36
YL-550C-Y2(7)						400× 400	3	0.64
YL-550C-Y2(8)						850× 550	3	1.87

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Laser Safety Windows (made of acrylic resin)

YL-500

Absorption characteristic graph * Note that the graphs of optical density show measured values, not guaranteed values.

T: Transmittance

Complete absorption type

Part Number	YL-500P-AR		
Window Type	Ar		
Color	 Orange		
Visible Light Transmittance	60%		
Optical Density [OD]			
EXCIMER	200 – 514.5nm	4<	
Ar			
He-Cd			

Part Number	YL-500P-Y2		
Window Type	YAG2 ω		
Color	 Red		
Visible Light Transmittance	15%		
Optical Density [OD]			
Ar	480 – 540nm		6<
YAG2 ω	532nm		

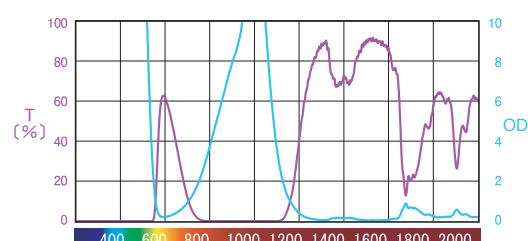
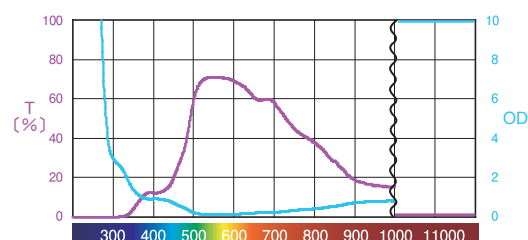
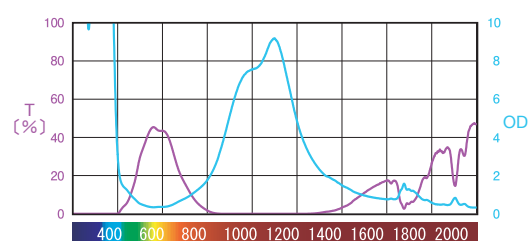
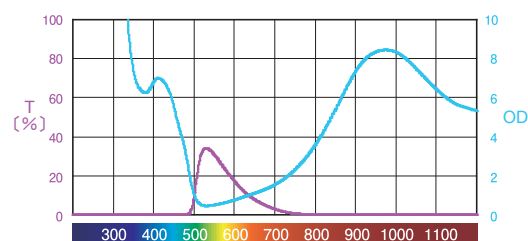
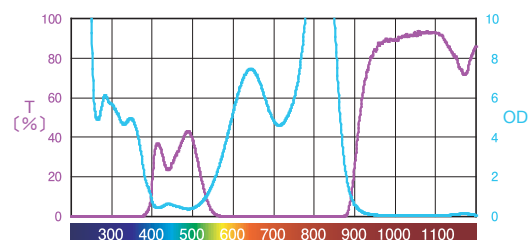
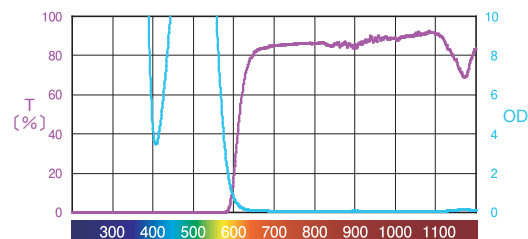
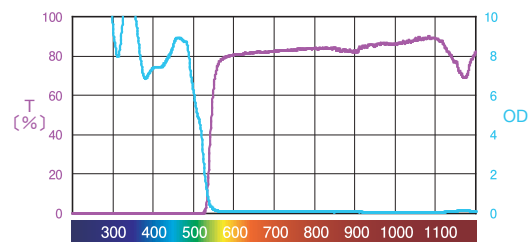
Part Number	YL-500P-LD		
Window Type	LD		
Color	 Blue		
Visible Light Transmittance	7%		
Optical Density [OD]			
LD	760 – 850nm		5<
He-Ne	632.8nm		

Part Number	YL-500P-Y1		
Window Type	YAG		
Color	 Green		
Visible Light Transmittance	25%		
Optical Density [OD]			
YAG	1064nm		5<
Nd:YVO ₄			

Part Number	YL-500P-Fiber		
Window Type	NIR		
Color	 Green		
Visible Light Transmittance	40%		
Optical Density [OD]			
NIR	930 – 1170nm	5<	
	1060 – 1130nm	7<	

Part Number	YL-500P-CO2		
Window Type	CO2		
Color	 Green		
Visible Light Transmittance	60%		
Optical Density [OD]			
CO2	10600nm	10<	

Part Number	YL-550C-Y2		
Window Type	YAG		
Color	 Amber		
Visible Light Transmittance	40%		
Optical Density [OD]			
YAG	266 – 355nm	10<	
	532nm	6<	
	1064nm	4<	



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