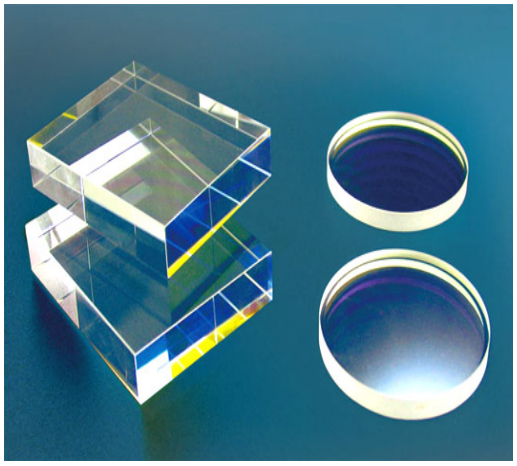
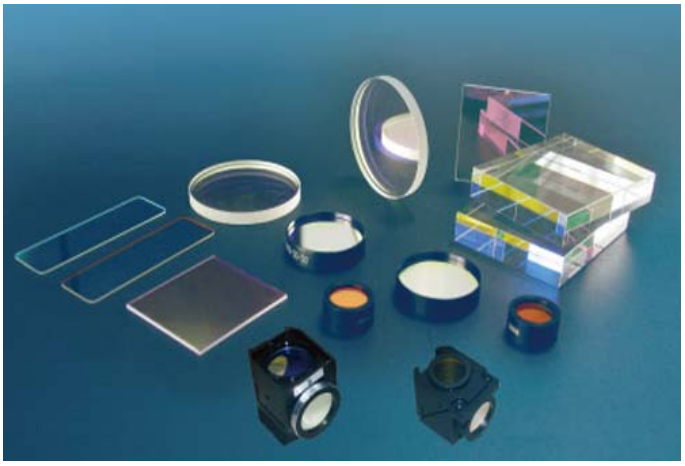
Filter

Lasertec develops many types of filters using advanced IBS technology. These filters can be used world-wide in medical equipment and laser products. We use advanced IBS“hard”coating to deposit on a single, flat substrate. Traditional coating techniques use multiple substrates laminated together. Multiple laminations usually have some wedges on them which causes imaging problems and misalignments. In addition, traditional coatings are“soft”and need glass protection. Differences: The hard coated, single substrate filters provide the ultimate performance, environmental stability, easy handling, and long life durability.



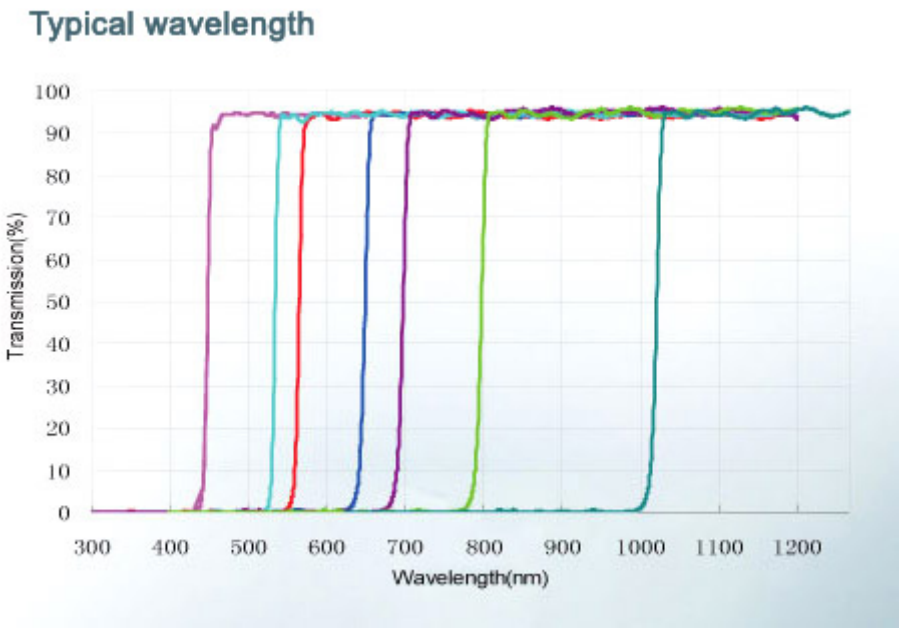


Typical Products & Applications

Item	Feature	Application	Typical Wavelength
Fluorescence Filters ExciterFilter Dichroic	High Gradient Spectrum Deep Blocking:>6OD Environmental Stability Long Life	Fluorescence Microscope Fluorescence Analysis Flow Cytometry Fluorescence Gene Analysis, etc.	B,G Series B、G、UV、V Series
IPL Filter	High Permeation, Deep Blocking Pin-hole Free No Ultraviolet Ray Transmission	IPL Quantum-SR Hair Removal	420,450,510,585 620,640,695,755nm
Long Pass Filters Short Pass Filters	High Gradient Spectrum High Permeation High Reflection Stable Performance Waterproof and Humidity Proof	Biomedical, Laser etc.	Customer Design

Standard products of IPL filter

Types	BK7/Fused Silica	Sapphires/YAG	Borofloat
Specification (mm)	40x30x8 40x10x50 34x8x44.1 34x8x10 54.5x15x50	40x30x8 34x8x10 45x10x14	54.5x15x50
Typical Wavelength	420，450，510，540，560，580，640，695nm		
Spectrum	>90%average over specified wavelength range, >99% average from UV to passband		



Standard products of L/S Filter

Data	Long Pass Filters	Short Pass Filters
Wavelength band	340-1570nm	340-1570nm
Cut ON/OFF Tolerance	±10nm	±10nm
Transmission	>90%	>90%
Rejection	>99% average from UV to pass band	>99% average from pass band to 1200-1800nm
Size	3-80mm, round or square	
Material	BK7, sapphire，Fused silica，borofloat etc.	
Surface Quality	60/40	
Surface Flatness	λ/2@632.8	
Parallelism	<3 arc min	
Clear Aperture	>80%	