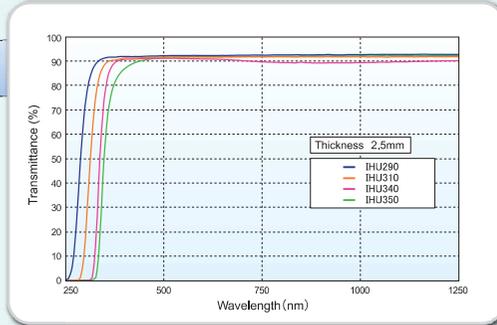
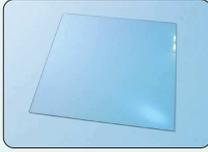


## ● UV transmitting filter

### IHU series

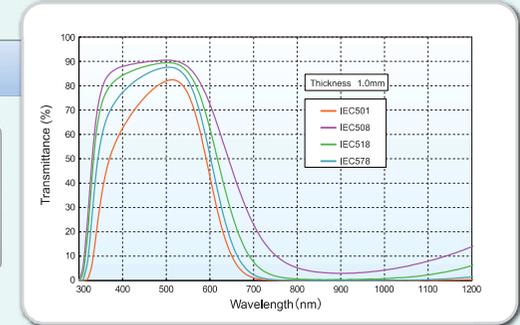
IHU series is a short-wavelength absorbing and UV transmitting filter with the transmission limit wavelength within the ultraviolet region and has good resistance to UV light.



## ● Blue filter (for color compensation)

### IEC series

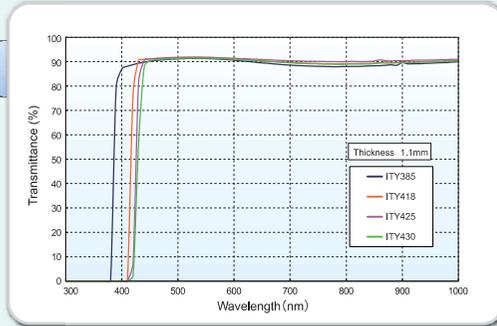
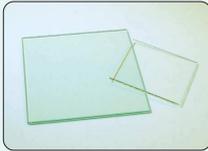
This glass has good transmission in the region of blue through green, and has a sharp decline in the red region. It is used as a IR cut filter.



## ● UV sharp cut filter

### ITY series

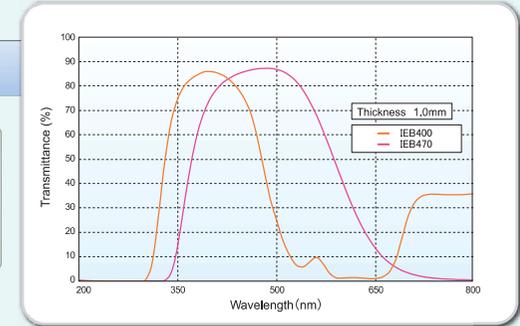
Compared to interference filters, this glass filter has a steep slope from the visible light. In addition, it is less affected by the angle of incidence and absorbs ultraviolet rays effectively.



## ● Blue filter

### IEB series

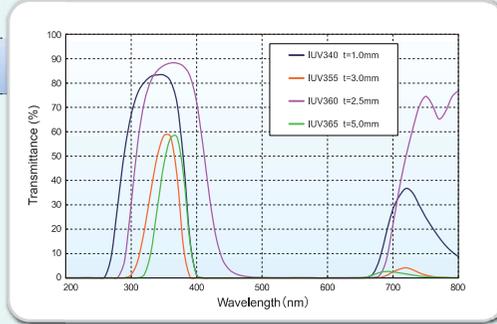
This glass has good transmission in the region of purple through blue, which is used as wavelength selection filters and for color compensation.



## ● UV transmitting filter, Visible absorbing filter

### IUV series

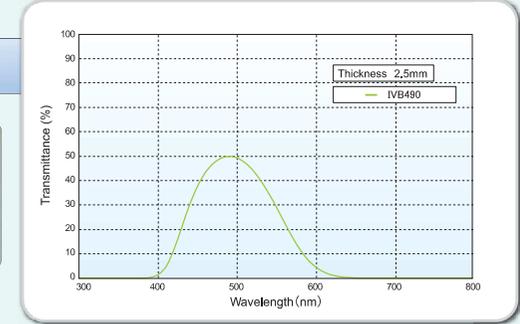
IUV series is band-pass filter designed to transmit in the UV region. They are designed to absorb visible enhance contrast for monochrome photography and to be used for color compensation.



## ● Blue filter

### IVB series

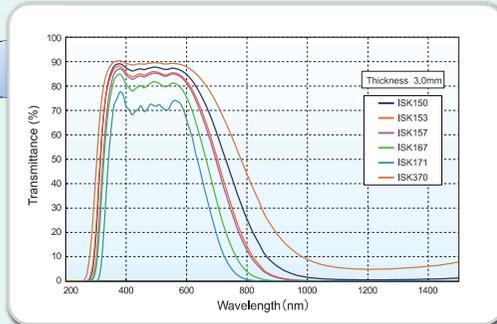
IVB series is band-pass filter designed to transmit in the blue region. They are designed to enhance contrast for monochrome photography and to be used for color compensation.



## ● Heat absorbing filter

### ISK series

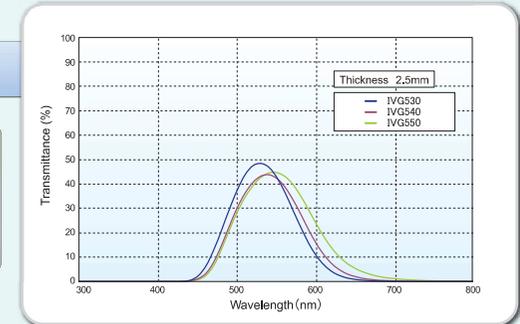
Designed to provide a very high transmission factor of visible light rays while cutting off much of the infrared light. ISK is the most used in the world for cutting of YAG laser.



## ● Green filter

### IVG series

Based on the wavelength of green light range, this filter transmits comparatively narrow wavelength range.

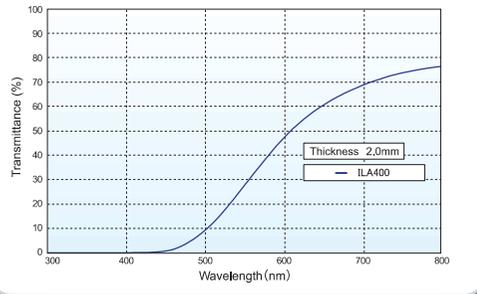
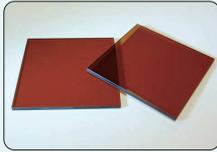


# option

● Light balancing filter (to decrease)

## ILA series

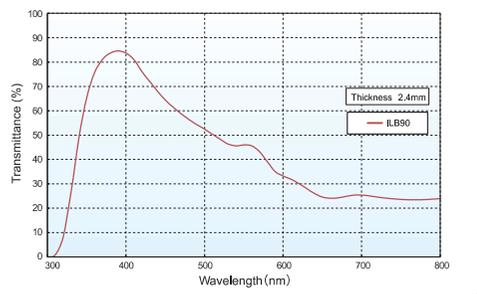
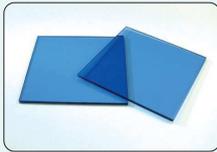
Light-balancing filters (amber) is used to decrease color temperature and enable the photographer to get warmer color



● Light balancing filter (to increase)

## ILB series

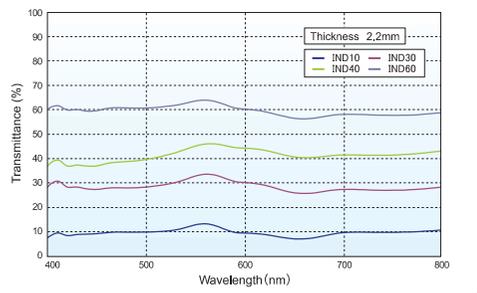
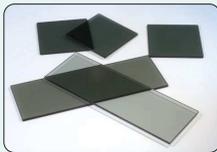
Light-balancing filters (blue) is used to increase color temperature and enable the photographer to make minor adjustments in the color quality of illumination to obtain cooler (bluer)



● Neutral density filter

## IND series

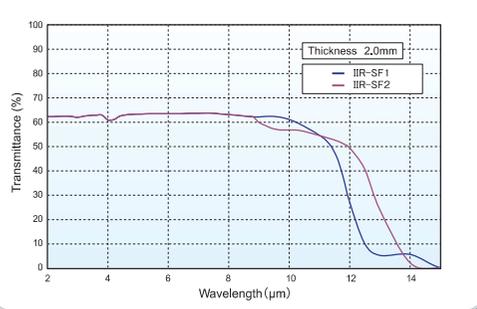
This glass filter is designed to provide an even spectral transmission over the visible spectrum. We can also modify desired densities.



● IR transmitting filter

## IIR-SF series

IIR-SF series is the glass consisting mainly of sulfur and designed to transmit between 8 ~ 11μm in the infrared. This glass is particularly useful for night vision cameras and sensors.



## Thermal Temper Treatment

Thermal Temper helps to increase mechanical strength and resisting heat.

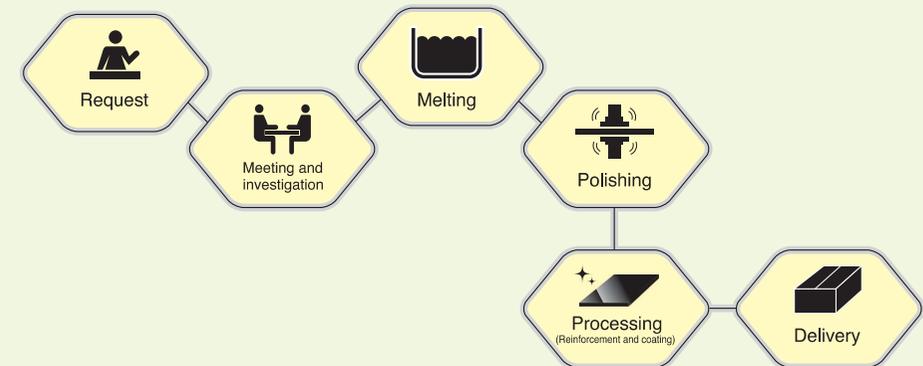
## Coating

ISUZU GLASS can offer a variety of high quality coatings like UV-cut, IR-cut, Metal, MAR (Multi anti-reflection) and other optical coating.

## Special Order product

ISUZU GLASS can develop new glass filters to your needs that are not listed in the catalog. Please feel free to inquire.

# Process



Visit our website for more information.

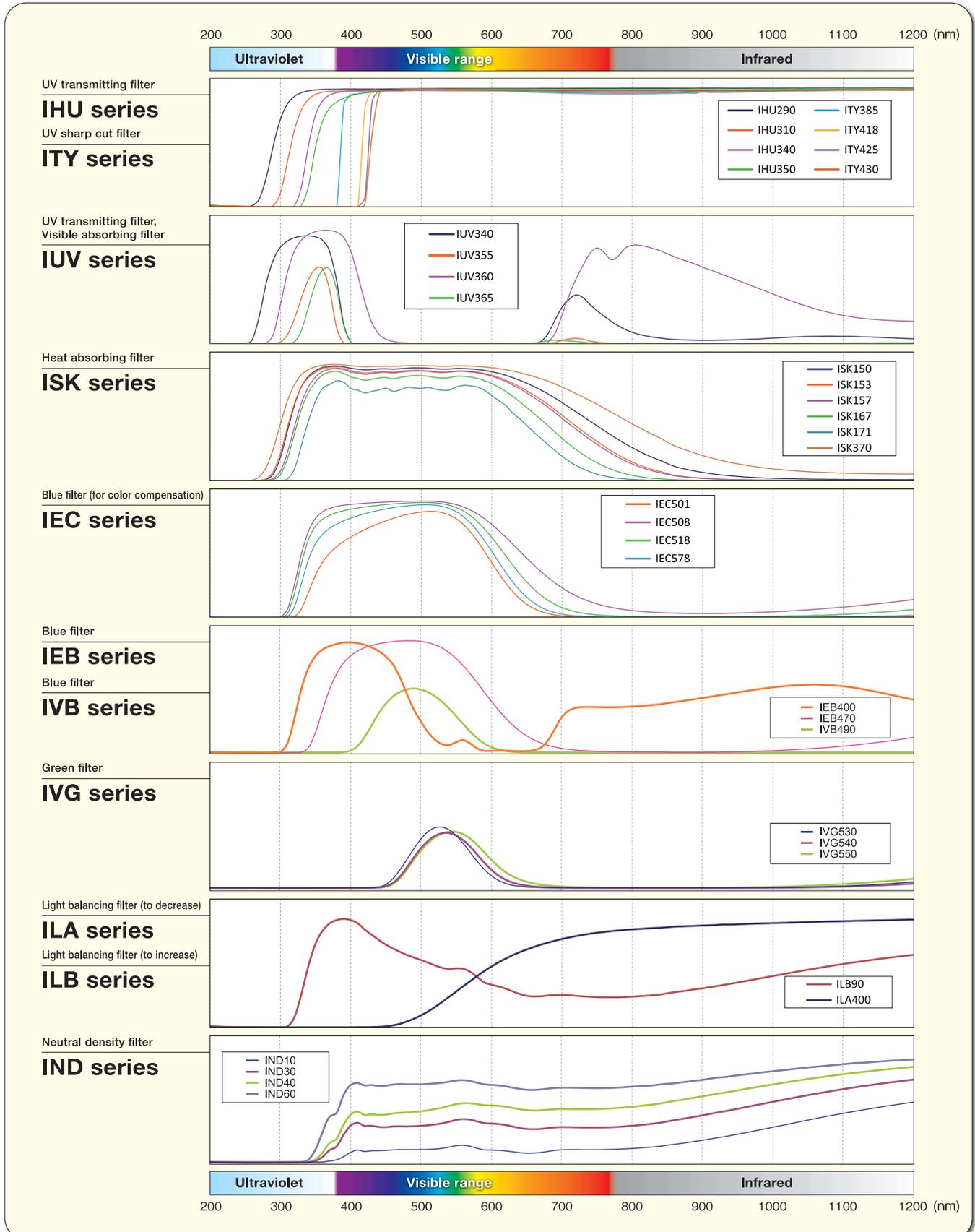
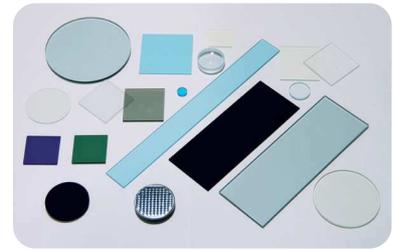
Data sheet can be downloaded.

[www.isuzuglass.com](http://www.isuzuglass.com)

Specifications are subject to change without notice.

# Optical glass filter 【Transmission】

ISUZU GLASS offers our own optical glass materials (absorbing filter).  
All of our optical filters are eco-friendly glass filters.



## ● Optical glass filter 【Optical Properties】

ISUZU		Similar Filter		Thermal Characteristic		Hardness HK (kg/mm <sup>2</sup> )	Refractive index n <sub>d</sub>	Density d	Water Resistance R <sub>w</sub>	Thickness mm	Optical Density OD @1064nm	Transmittance
		SCHOTT	HOYA	α <sub>100-300</sub> (X 10 <sup>-7</sup> /C)	T <sub>g</sub> (°C)							
IHU series	IHU290			49	513	571	1.50	2.31	3	2.5±0.5		λT 290±7nm Δλ < 40 TH≥85%
	IHU310			94	533	542	1.52	2.55	3	2.5±0.5		λT 310±7nm Δλ < 40 TH≥85%
	IHU340		(UV34)	58	610	433	1.52	2.57	1	2.5±0.5		λT 340±7nm Δλ < 40 TH≥85%
	IHU350			74	534	610	1.52	2.45	2	2.5±0.5		λT 350±7nm Δλ < 40 TH≥85%
ITY series	ITY385	(GG 385)	L-39	53	498	472	1.49	2.30	6	1.1±0.2		λT50% 385±3nm TH≥85%
	ITY418	GG 420	L-42	69	517	491	1.50	2.38	4	1.1±0.2		λT50% 418±3nm TH≥85%
	ITY425			61	537	512	1.50	2.40	4	1.1±0.2		λT50% 425±3nm TH≥85%
	ITY430			68	529	520	1.51	2.39	4	1.1±0.2		λT50% 430±3nm TH≥85%
IUV series	IUV340	UG 11	U-340	59	600	493	1.53	2.64	2	1.0±0.2		λTmax 340±10nm Tmax 83±5%
	IUV355			76	569	416	1.52	2.69	1	3.0±0.5		λTmax 355±5nm Tmax 60±5% 254nm ≤0.1% 405nm ≤0.1%
	IUV360			99	572	561	1.53	2.60	3	2.5±0.5		λTmax 360±5nm Tmax 86±5%
	IUV365			74	536	506	1.53	2.66	3	5.0±0.5		λTmax 365±5nm Tmax 60±5% 254nm ≤0.1% 405nm ≤1.0%
ISK series	ISK150	KG 2	HA-50	60	594	497	1.52	2.60	1	3.0±0.5	>2	λT50% 728±13nm Tave λ400-550nm≥84%
	ISK153			59	598	481	1.52	2.61	1	3.0±0.5	>3	λT50% 703±13nm Tave λ400-550nm≥80%
	ISK157	KG 1	HA-30	57	597	481	1.52	2.61	1	3.0±0.5	>3	λT50% 698±13nm Tave λ400-550nm≥80%
	ISK167	KG 3	HA-15	60	609	502	1.52	2.64	1	3.0±0.5	>5	λT50% 668±13nm Tave λ400-550nm≥78%
	ISK171	KG 5	HA-5	58	602	517	1.53	2.63	1	3.0±0.5	>6	λT50% 643±13nm Tave λ400-550nm≥70%
	ISK370	(KG 4)		58	584	482	1.51	2.58	1	3.0±0.5	>1	λT50% 783±13nm Tave λ400-550nm≥87%
IEC series	IEC501	BG 18		80	545	539	1.53	2.63	1	1.0±0.2	>3	λT50% 592±5nm 500nm≥77%
	IEC508	BG 38	(CAW-500) (CS-500)	94	432	489	1.53	2.64	2	1.0±0.2	>1	λT50% 642±5nm 500nm≥89%
	IEC518		C-500	72	500	531	1.53	2.66	1	1.0±0.2	>1	λT50% 615±5nm 500nm≥87%
	IEC578	BG 39	CM-500S	70	515	509	1.54	2.72	1	1.0±0.2	>2	λT50% 604±5nm 500nm≥85%
IEB series	IEB400	BG 25		105	469	559	※2:1.53	2.57	2	1.0±0.2		334nm≤74% 405nm≥84% 488nm≤38% 725nm≤45%
	IEB470	(BG 23)		148	424	407	※3:1.53	2.69	3	1.0±0.2		450nm≥84% 633nm≤23% 800nm≤8%
IVB	IVB490			86	520	448	1.53	2.63	3	2.5±0.5		λTmax 490±5nm Tmax 50±5% 390nm≤1% 640nm≤1%
IVG series	IVG530	VG 9	G-533	86	535	492	※3:1.52	2.57	4	2.5±0.5		λTmax 530±5nm Tmax 50±5% 430nm≤1% 650nm≤5%
	IVG540			86	535	495	※3:1.52	2.58	3	2.5±0.5		λTmax 540±5nm Tmax 45±5% 430nm≤1% 660nm≤5%
	IVG550		G-550	85	528	482	※3:1.52	2.58	3	2.5±0.5		λTmax 550±5nm Tmax 43±5% 440nm≤1% 680nm≤5%
ILA	ILA400			83	554	599	1.56	2.72	1	2.0±0.5		Light Balancing Change Ability 400±30 mired
ILB	ILB90			110	502	576	1.51	2.53	2	2.4±0.5		Light Balancing Change Ability -90±5 mired
IND series	IND10	NG 3	ND-13	77	523	569	1.53	2.55	3	2.2±0.2		Tave λ400-700 10±2%
	IND30	NG 4	ND-25	79	532	571	1.52	2.55	2	2.2±0.2		Tave λ400-700 30±2%
	IND40		ND-40	85	536	566	1.52	2.54	3	2.2±0.2		Tave λ400-700 40±2%
	IND60	NG 5	ND-50	80	535	625	1.52	2.55	1	2.2±0.2		Tave λ400-700 60±2%
IIR-SF series	IIR-SF1			※1:161	236	131	※4:2.68	4.15	1	2.0±0.3		11μm ≥ 50%
	IIR-SF2			※1:146	250	179	※4:2.66	4.13	1	2.0±0.3		11μm ≥ 50% 12μm ≥ 45%

○ Similar filters with ( ) might not be manufactured by the maker at present.  
○ OD is calculated value.

※1 α<sub>100-200</sub> ※2 n(1545nm) ※3 n(546nm) ※4 n(10.6μm)