

Optical Lens

Lens arrays (Integrated lens array)

The integrated lens array is developed by Isuzu Galss by glass molding. Comparing with glued lens, molded lens array is of high productivity. We have experience of more than 1000 types and can deal with various kinds of shape and amount. MAX size DIA150mm.

Application: lithography, medical equipment (analysis equipment), microscope, head-up display, projector



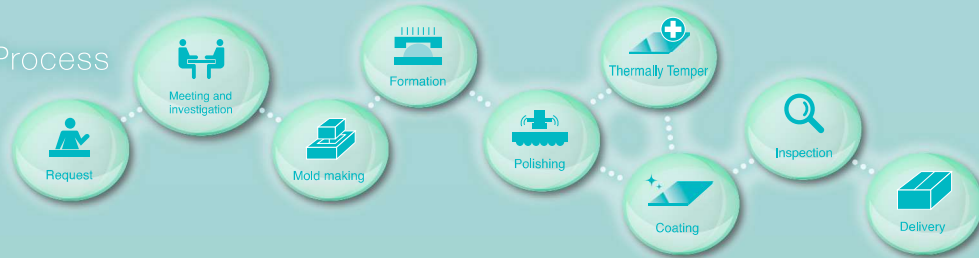
Aspheric lenses

Realize aspheric shape which is difficult by polish. It can be used from illumination field to image field. Various shape is possible.

Application: medical machine (endoscope, fundus camera), microscope, measurement equipment, camera, other illumination equipments



Process



Micro lens arrays

We realized low cost mass production with glass molding of MLA. Our MLA can be of MIN sag: 0.02mm, MIN radius: 0.3mm, MIN pitch 0.3mm. It can contribute to field like 3D printer, semi-conductor laser luminous intensity distribution, fiber connector, etc.

Application: 3D printer, optical communication, head-up display, stereopsis display device.



Other molded lenses

It is possible to achieve free shape optical components such as fresnel lens, free-form surface, CPC, etc, with glass molding. Flexible capability even to unconventional requirement, please feel free to consult.

Application: LED reflector, security camera, CPV, projector, other illumination equipments



Optical Filter

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.

Application: YAG laser cutting, laser safety eyewear, in-vehicle camera, microscope

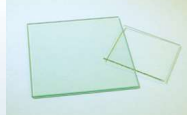


UV sharp cut filter

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. This filter has extraordinary feature of sharp cut.

Application: lithography, camera filter



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 an IR cut filter.

Application: digital camera, in-vehicle camera



UV transmitting, Visible absorbing filter

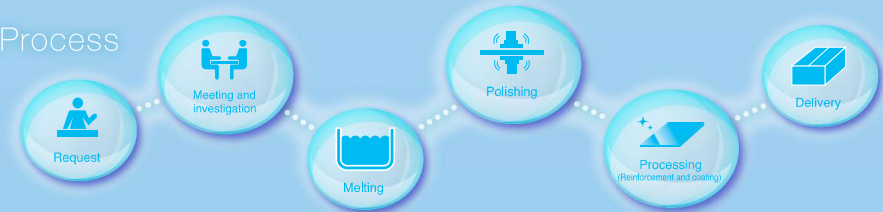
IUV series

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

Application: measurement equipment, illuminometer, other analysis equipments



Process

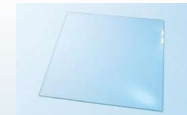


UV transmitting filter

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.

Application: analysis equipment, lithography

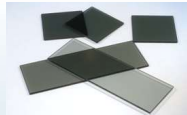


Neutral density filter

IND series

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

Application: For light amount adjustment of camera

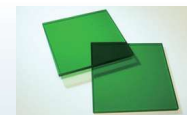


Green filter

IVG series

Based on the wavelength of green light range, this filter transmits comparatively narrow wavelength range. It fits to be used as high transmittance of specialized wavelength, or wavelength choice usage combining with sharp cut filters.

Application: scanner and medical microscope



IR transmitting filter

IIR-SF series

IIR-SF series is the glass consisting mainly of sulfur and designed to transmit between 8~13μm in the infrared range. Possible of molding into lens array and aspherical lens. No arsenic, no selenium.

Application: thermography, nightvision, IR camera

