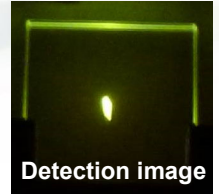


NIR to Visible Light Converting Glass

YAGLASS-T

~ Glass containing nano-sized crystals ~

YAGLASS-T detects/converts near-infrared (NIR) light, such as YAG laser beam, to visible light.

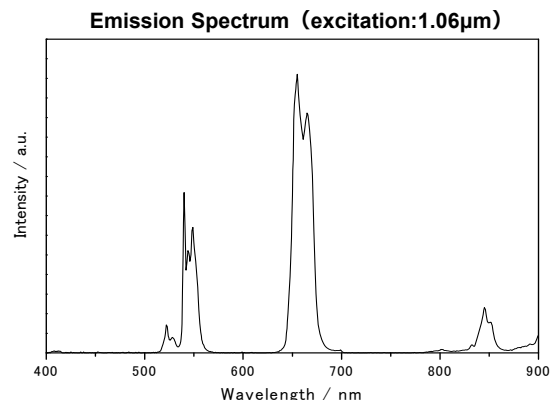
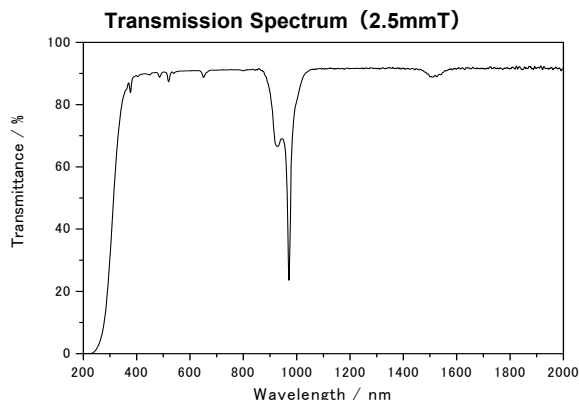


Detection image

YAGLASS
(Conventional model) YAGLASS-T



- YAGLASS-T is high transparent glass which contains nano-sized crystals.
- High threshold against high-power YAG lasers.
- Compared to the conventional model, YAGLASS-T is lightweight, and more resistant to cracking and chipping.
- Same emission intensity (0.55 μm) as the conventional model
- RoHS: Compliant
- Custom dimensions are available upon request.



◆ Specifications and Basic Properties

Dimensions of detection glass (standard size)	20×20×2.5 mm
Detectable range of wavelength	0.9 - 1.07 μm
Detecting sensitivity (when laser at 1.06 μm is used)	30 mW/mm ²
Emission wavelength	0.55 μm , 0.66 μm
Refractive index (nd)	1.539
Transformation point (Tg)	584°C
Thermal expansion (100 - 300°C)	89×10 ⁻⁷ /°C
Specific gravity S.g	3.4
Surface damage threshold (Irradiated laser at wavelength of 1.06 μm and pulse width of 10 ns)	51 J/cm ²

Warning

- Operators should wear laser protective goggles which corresponds to scattered beam to avoid direct or reflected beam.
- The detection part is made of glass. Please handle with care.

* The specifications of the product may be changed without prior notice.