Fousing on Advanced Fiber,Optics and Semiconductor

Jing Chen

FOSTECH

Who We Are ?

🎗Focusing on the production of advanced optical and semiconductor components. Our team consists of several PhDs who study optical components and semiconductor component processing.

🎗We have extensive experience in glass molding technology,glass polishing technology, through-silicon via and through-glass via technology, optical coating technology, optical fiber device technology, lithography technology,Nanoimprint technology, free-form surface, metasurface and diffractive optical design.

Core Technology
Ceramic Components
TSV TGV Substrate
Glass Molding Technology
Glass Polishing Technology
Optical Coating Technology
Fiber Device Assembly Technology
Nanoimprint Technoloy
Lithography technology Technology
Optical System Design
DOE & Meta lens Design

Market
Fiber Communication Market
AR VR Market
High Power Laser Market
Glass Polishing Technology
Biomedical Market
Lidar Market
Camera Market
Advanced Semiconductor Maket
Other Optical&Semicondutor Market

Endoscope Introduction

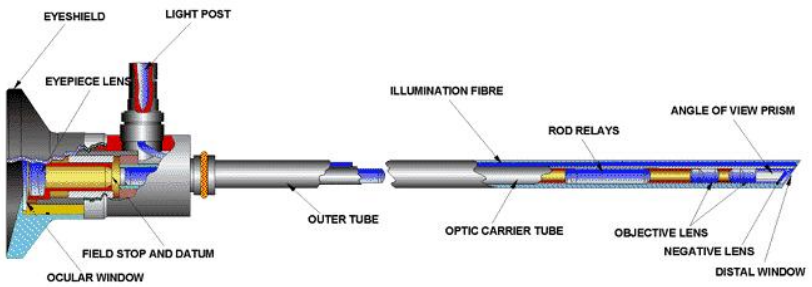
An endoscope is an inspection instrument composed of image sensor, optical lens, light source and mechanical device, which is used to look deep into the body by way of openings such as the mouth or anus. A typical endoscope applies several modern technologies including optics, ergonomics, precision mechanics, electronics, and software engineering. With an endoscope, it is possible to observe lesions that cannot be detected by X-ray, making it useful in medical diagnosis.

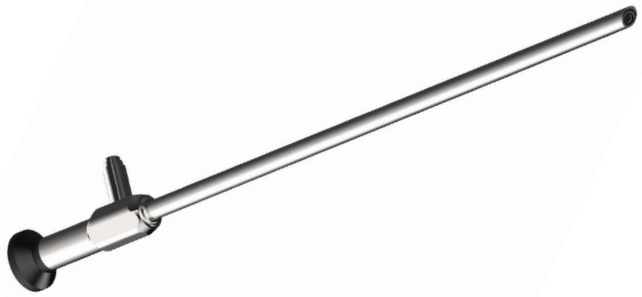
There are many kinds of endoscope ,Rigid or flexible endoscope ,Flourescent or White light Endoscope. We have rich experience in the endoscope market, and served a lot of endoscope clients.

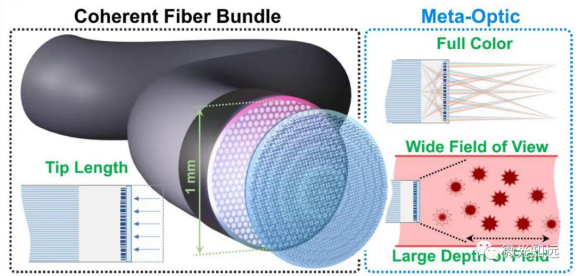
A.Cutting-edge filter products for fluorescent endoscope clients to filter the LED light and pass the Fluorescent light.

B.As small as possible rod lens and prism for our rigid endoscope clients.

C.A new solution that we provide fiber with meta structure to make fiber probe have better imaging performance.





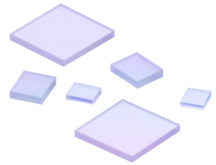


Solutions For Endoscope

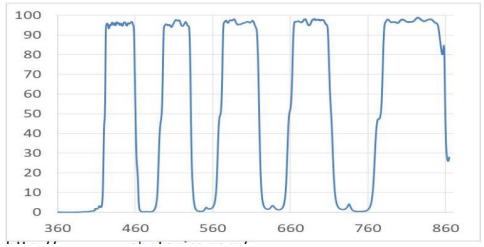
Glass Optics:
1:Spherical Lens(the smallest size:0.5mm) and Aspherical Lens(the smallest size:0.8mm)(Glass Molding Or Polishing Process)
3:Metallized Sapphire Windows with Anti-Relecting or BandPass coating inside
4:Grin Lens
5:Rod Lens
6:Micro Lens and Micro Prism
7:BS(Beam Splitter)
8:Filter (our Core Products with Extremely excellent performance,widely be chosen by Fluorescent Endoscope Company):
- a:Bandpass Filter
- b:Long Pass Filter
- c:Short Pass Filter
- d:Signle-Band & Multi-Band Dichroic Mirror
- e:Signle-Band & Multi-Band Notch Filter
- f:Multi-Band Pass Filter



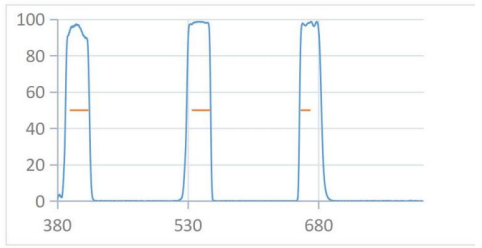




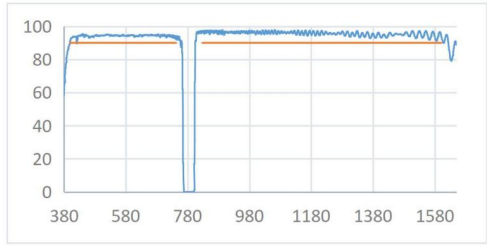
Multi-DI 421/491/567/659/776



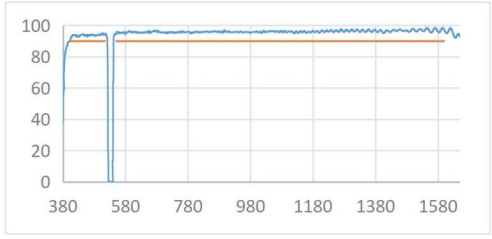
Trip-Band 405/545/670



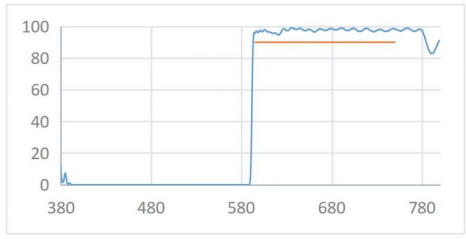
Notch 785-38



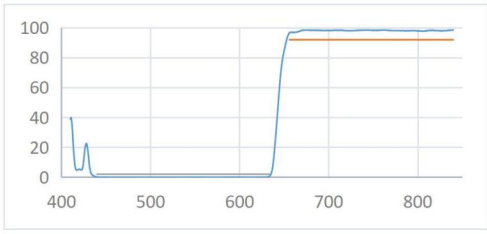
Notch 532-17



LPF595



Dichroic647



Metallized Sapphire Windows For Endoscope

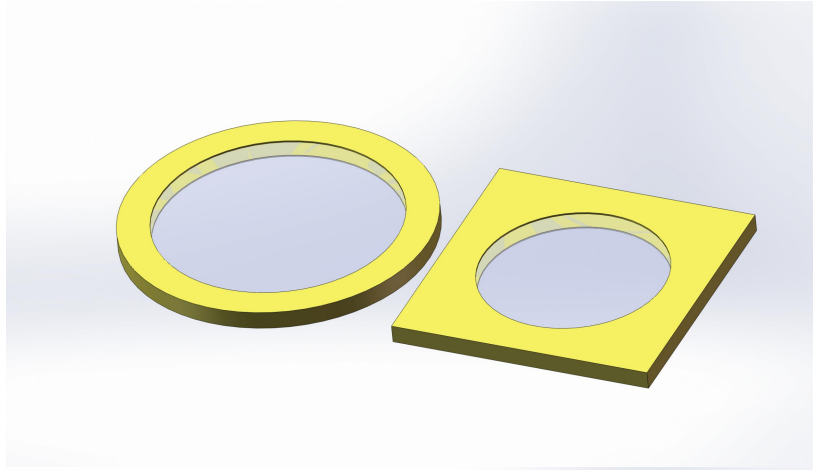
Background:

Sapphire material has extremely stable physical and chemical properties, high strength, high temperature resistance, high humidity resistance, and corrosion resistance. It is widely used as the optical window of equipment or instruments. Engineers use brazing to fix the sapphire window on the metal bracket. To achieve airtightness of the product, however, due to the inconsistent thermal expansion coefficients of metal and sapphire, the sapphire window will be broken due to the different thermal expansion coefficients of the two during brazing.

Our innovation:

A>Metallized sapphire windows with Anti-Reflection coating or Bandpass coating inside.

B>In addition, we have a unique design. You can provide us with the metal bracket structure design drawings. Our engineers will review your bracket structure and design a brazing plan based on your bracket structure. After receiving your bracket, we will solder the sapphire window to your metal bracket and provide the sapphire window with Window, high airtight metal bracket for you, our technology can effectively solve the problem of sapphire window breakage during the soldering process, providing you with high reliability, convenient products.



Structure of Metalized Sapphire Window with AR/IR CUT Coating