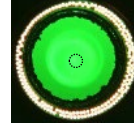


OK Fiber Technology Co., Ltd. is a venture company born from the National Institutes for Quantum and Radiological Science and Technology. Based on the accumulated composite-type optical fiber technology in the National Institutes for Quantum and Radiological Science and Technology, we will research and develop medical and industrial applications, and provide new value to the worldwide.

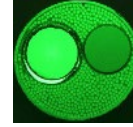
Composite-type optical fiber

Composite-type optical fiber can send laser beam and optical image at the same time. By uniting different type of optical fibers in coaxial, gap-less optical axis and miniaturization can be achieved.

Composite-type optical fiber tip



Same axle type

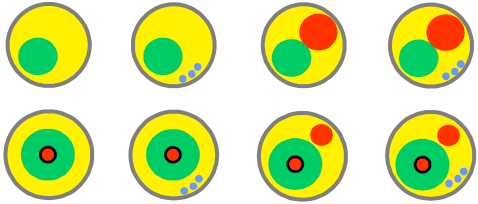


Parallel axle type



Extra-fine type

Types of composite optical fiber

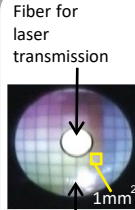


Cross-Section

Combines optical fibers for image transmission and laser transmission into a single coaxial line

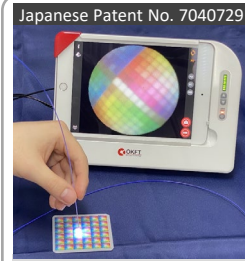
- Fiber for cauterization laser
- Fiber for PDT laser
- Fiber bundle for blood flow measurement
- Fiber bundle for lighting
- Fiber bundle for viewing

Example of an actual image



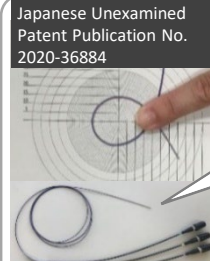
Same axle type

Portable endoscope



Japanese Patent No. 7040729
Portable system with battery-operated light source

Flexible fiberscope



Japanese Unexamined Patent Publication No. 2020-36884
Full length: about 2.5m
Outer diameter: 0.97mm
Curvature: R15mm

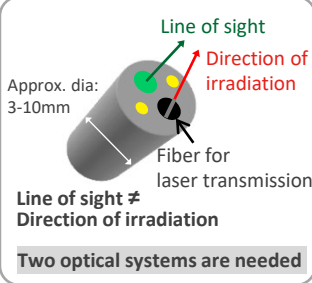
- Fiber tip
- for viewing
 - for lighting
 - for laser

Flexible fiberscope with laser transmission

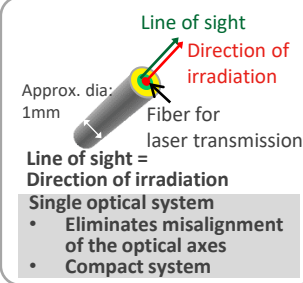
Medical Application

We are developing innovative laser therapy equipment. By observing simultaneously, accurate and minimally invasive treatment can be achieved.

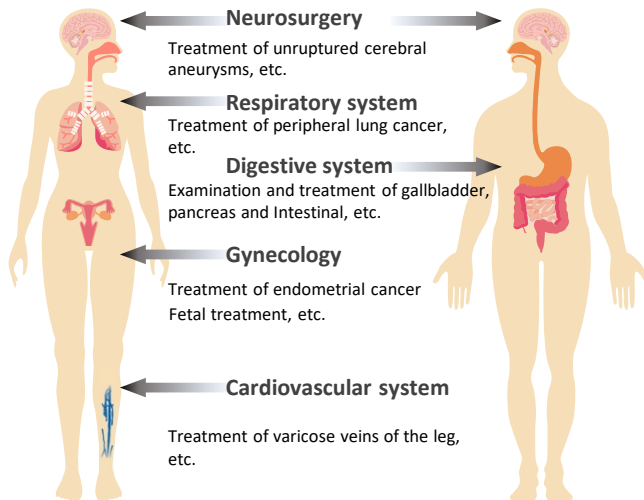
Typical Endoscope Tip



Composite Optical fiber Tip



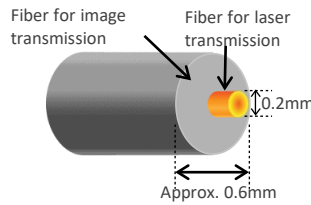
Composite optical fiberscopes are anticipated to have various applications in the medical field.



Industrial Application

By combining the optical fibers for image transmission and laser transmission into a single coaxial composite fiber, welding in a confined space with poor view of the weld joint becomes an easy task.

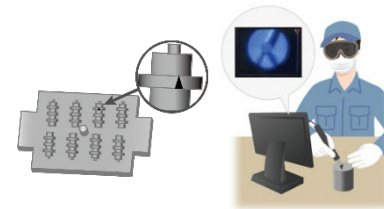
Composite optical fiber for industrial applications



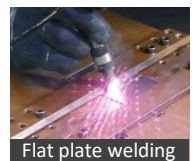
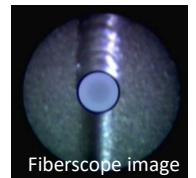
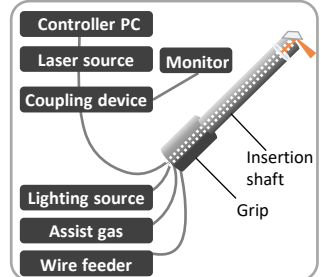
Inspection and repair of pipes in nuclear plants, thermal plants, and chemical plants, as well as plumbing in buildings and condominiums

[Application examples]

Handheld laser welding torch for confined spaces
Repair of areas which are difficult to see with the naked eye, such as dies and molds for complex shapes



Laser torch



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