

# Double-probe for diagnosis and treatment of optical fib combined ultrasound-optical sound image monolayer

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## Technology description

The invention provides a double probe for single layer diagnosis and treatment of optical fiber combined ultrasound and optical sound image. In the invention, double probes are used for single layer diagnosis and treatment of optical fiber combined ultrasound and optical image, according to the high resolution ultrasonic diagnosis of human body parts, anatomical observation of body parts and wide sound single layer diagnosis are carried out, on the basis of which molecular imaging identification of body parts is carried out at the same time to achieve the effect of diagnosis and treatment. In particular, the optical fiber-bound ultrasound-optical sound single layer diagnosis and treatment double probes in the invention are very effective in the diagnosis and treatment of various cancers including breast cancer and brain tumor.

In the invention, double probes for optical fiber combined ultrasonic and optical acoustic single layer diagnosis and treatment are in contact with body parts, combined with ultrasonic oscillator, ultrasonic waves are injected into the ultrasonic measuring device of the human body, combined with the ultrasonic measuring device, light is injected into the optical guide fiber of the human body, combined with the optical guide fiber, the optical control device with set output characteristics is communicated, and connected with the ultrasonic direction, The ultrasonic signal and optical signal group received by the sensor formed on the lower surface of the ultrasonic measuring device are transmitted and analyzed by the signal analysis device. The ultrasonic measuring device and the optical fiber diagnose the ultrasonic and optical sound image single layer diagnosis at the same time.

## Application area

Cancer Therapy, Signal Analyzer, Optical, Audio and Video Monolayers

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