

Scientists use lasers to transmit sound to human ears

Researchers from Massachusetts Institute of Technology Lincoln (MIT), the United States have demonstrated that lasers can transmit sound information to a specific person without requiring any receivers.

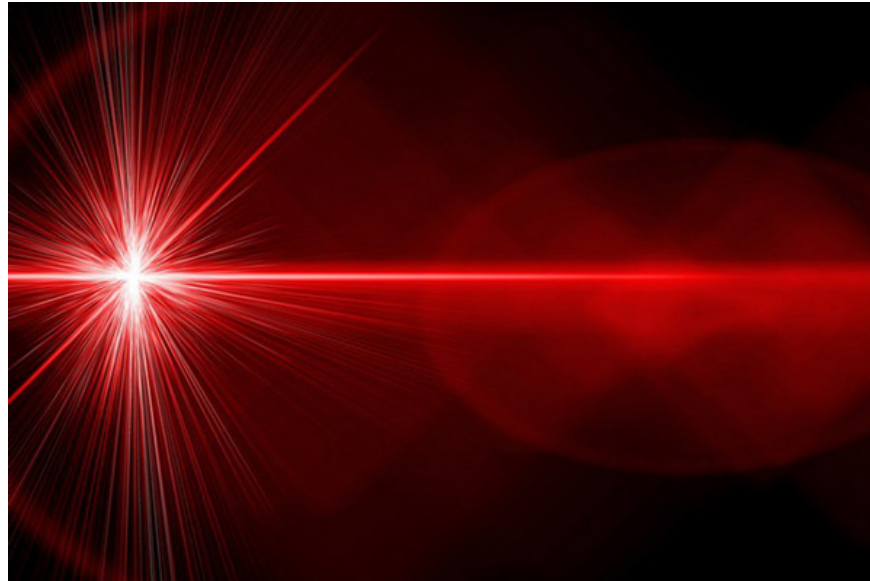
Researchers from the Massachusetts Institute of Technology (MIT) Lincoln lab have demonstrated that lasers can transmit sound information to a specific person without any receiver. This means, we can easily communicate with each other in noisy rooms.

According to the Optical Society magazine (OSA), the researchers tested transmitting multiple timbre, music and speech segments equivalent to the volume level in laser conversation.



According to lead researcher Charles M.Wynn, the laser communication system can be used for long distances, 100% safe for eyes and skin, capable of locating sound signals to a dead body. set in any environment.

The researchers based the negative optical effect, which occurs when a material generates sound waves after absorbing light, to use water vapor in the air to absorb light and produce sound. They can produce audible audio signals at a certain distance from the transmitter by laser scanning. This allows scientists to locate a specific person.



The method of laser sound transmission can work in relatively difficult environmental conditions, only a little bit of water vapor in the air. Of course, the sound transmitted will be clearer in high humidity environments.

In the laboratory scale, the laser scanning method can transmit sound with a intensity of 60 decibels, to a person at a distance of more than 2.5 meters.

The team will continue to develop this system so that the broadcast distance can go further and can commercialize it in the near future.

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