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Scientists create medical camera to see through human body

06 September 2017 | News

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An Indian-origin scientist has led a team at the University of Edinburgh to create a medical camera that can see through the human body, and he believes it has immense potential for doctors in tracking internal examinations.

The camera is designed to help doctors track medical tools, known as endoscopes, which are used to investigate a range of internal conditions.

The new device is able to detect sources of light inside the body, such as the illuminated tip of the endoscope's long flexible tube.

Until now, it has not been possible to track where an endoscope is located in the body in order to guide it to the right place without using X-rays or other expensive methods.

Experts have integrated thousands of single photon detectors onto a silicon chip, similar to that found in a digital camera.

The technology is so sensitive that it can detect the tiny traces of light that pass through the body's tissue from the light of the endoscope. It can also record the time taken for light to pass through the body, allowing the device to also detect the scattered light.