Scientists from Samara University have developed a new image processing algorithm that helps to better see veins under the skin. Existing methods, such as cameras with infrared vision, do not always give a clear picture – the image can be dark or blurry. In addition, the programs that are now used to process such pictures often work unstable.

The development of Samara scientists is based on the technology of image processing using the so -called quick conversion of Fourier. This allows you to allocate veins in the image in real time with high accuracy, even with weak contrast.

The new system can become part of the domestic medical device, which will be convenient, inexpensive in production and is effective even in difficult cases – for example, with dark skin or poor visibility of blood vessels. Now scientists are working on improving the optical part of the device.

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