

The invention relates to the data processing means and may be used in the image preliminary analysis and pattern recognition systems.

The device for image digitization step calculation contains a collimated source of coherent radiation 1, a first transparency 2, a first Fourier lens 3, a photodetector unit 4, an amplifier unit 5, a decoder 6, a memory unit 7, an analog-to-digital converter (ADC) 8, an analogous commutator 9, a threshold element unit 10, an image binarization unit 11, the second and the third Fourier lens 12, 13, a holographic element 14, a second transparency 15, a reflecting mirror 16, a beam splitter 17.

Claims: 1

Fig.: 3

