POTENTIAL INFORMATION THE IMAGE CAPACITY, PROCESSED BY THE AUTOMATED SYSTEM AND THE HUMAN SIGHT

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The information capacity of a spatial signal is valued in terms of the stage elements structure, system diffraction restrictions forming the image of a stage, the attitude of a signal to noise in the signal receiver, as well as the probability of the elements sanction of the stage. The comparative analysis of information capacity of the signals processed by the automated system by the criterion of the ideal observer and the operator has been made. The conditions under which application of the automated system or the operator is expedient has been found.