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The development of cable television systems (CTS) originates from networks of collective television reception. The CTS system is a set of technical means designed for the formation, processing and transmission of television signals, their distribution using distribution cable structures and reception using individual subscriber devices.

$$I = \frac{-kI_0}{\lg\left(\frac{1-q}{1-q(1-d)}\right)}, \quad (1)$$

where I – average number of photons in a pulse, q – channel transmission ratio.

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