

## INTISARI

### Penjabaran Persamaan Sistem Penjumlahan Pajanan Fotografi

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Telah dilakukan penurunan persamaan sistem penjumlahan pajanan fotografi (*The Additive system of Photographic Exposure*) dalam sistem kamera. Lensa tipis sederhana digunakan sebagai model lensa kamera yang sesungguhnya. Mula-mula diturunkan persamaan dasar pajanan kamera (*camera exposure*) dari analisis geometri dan fotometri pembentukan bayangannya. Sementara rumusan sistem penjumlahan pajanan diperoleh dengan merubah persamaan dasar tersebut ke dalam bentuk skala pajanan (*exposure value*), yakni bilangan logaritma basis-2. Selanjutnya rumusan penjumlahan tersebut digambarkan dalam skema kalkulasi berupa diagram garis.

**Kata kunci:** pajanan fotografi, skala pajanan, kamera, geometri optik, fotometri

## **ABSTRACT**

### **Derivation of The Equation of the Additive System of Photographic Exposure (APEX)**

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The equation of the Additive system of Photographic Exposure (APEX) in camera system has been derived. Simple thin lens has been used to approach the real lens system. The basic equation of camera exposure should be derived firstly by analyze both of geometry and photometry of image formation. The APEX equation would be obtained by modifying the basic equation to the form of exposure value system that difine by base-2 logarithm number. Then the calculated of the APEX equation would be drawn in a diagram line.

**Keywords:** photographic exposure, exposure value, camera, geometric optic, photometry