

Modern Digital technology and its role in Cinematography using available light

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Abstract

The use of available light" It is any light, whether natural light of all kinds, artificial light of all kinds, or a mixture of them." represents an artistic direction that represents a new range of thinking for Directors of Photography, to meet their technical needs and the ability to dye the image in a realistic way that greatly affects the audience, as cinema in its history is trying to reach the realistic form closest to the viewers, and the new digital technology and development in sensors and films like Kodak Company in the manufacture of a new raw film "Kodak Vision 3" capable of meeting the technical needs of the director of photography with a high dynamic range and the ability to catch data in shadow areas and high exposed areas while maintaining the color representation, also Arri company has developed in its sensor type Arri Alev Cmos It has been developed to match the same ability as the 35mm film, with a high ability to read light in poorly light areas, and a high dynamic range of up to 14 F Stops, and the lack of feeling of the video image, cinematic lenses and the development in the form of cinema lenses, as these lenses have become quick to respond to light, with high contrast and high details, such as the Arri Master Prime lenses, which have a wide aperture of 1.3 that allow the largest amount of light to enter in low-light areas, high contrast, high accuracy and reduce lightning. Flare and Cooke S7i lenses, these lenses have an aperture of 2, high details, high contrast, and light shadows

Where these developments helped in the success of this artistic direction and the imposition of realism on the image and meet the creative requirements

Keywords:

(available light, kinds of light sources, sensors, lenses).