

The Evolution of One- Shot Films in the Era of Virtual Production

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Abstract:

Over the past decade, cinema technology has seen significant developments, leading to the emergence of virtual production as an emerging and effective technology. This technology enables the integration of special effects directly during filming, instead of adding them in post-production as was previously done. Virtual production, thanks to its advanced technologies such as LED walls and live motion capture, offers filmmakers the opportunity to achieve complex and integrated visual experiences with higher efficiency and lower cost.

Research problem: How can virtual production technology be employed in the production of one-shot films in a way that enhances their artistic and technical quality and improves production efficiency?

The significance of the research lies in highlighting how new technologies in virtual production can enhance the quality of one-shot films, opening new horizons for the film industry. These technologies not only contribute to improving the visual quality of films but also offer greater flexibility in filming and reduce the costs associated with different production stages. By understanding the developments in virtual production, filmmakers can use these technologies to produce cinematic works that are creative and innovative without sacrificing visual quality or incurring excessive expenses. This research aims to explore how virtual production can contribute to the development and production of one-shot films.

The research objectives include using virtual production technologies to improve the technical and artistic aspects of these films, studying the components of the virtual studio and the methods used, and arriving at a set of fundamental considerations for effectively integrating this technology. The goal is to provide a comprehensive understanding of the capabilities that virtual production offers, which can improve the film production process and open new horizons for cinematic creativity.

Methodology: descriptive analytical approach by gathering facts and information and analyzing global one-shot films (the study sample) to solve the research problem and achieve its objectives.

The results summarize how virtual production can significantly enhance the visual quality of one-shot films, benefiting from advanced technologies such as LED walls and motion capture. Virtual production reduces the need for complex and expensive filming locations, increasing production efficiency and reducing costs. This type of production also opens new horizons for creativity.

Keywords:

Virtual Production - One-Shot Films - Special Effects - LED Walls - Editing - Volumetric Screen

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