

# The Influence of Intelligent Technology on Photography Technology and Art

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**Abstract.** Along With the rapid development of social economy, intelligent technology has achieved remarkable achievements in photography, and the Chinese photography has exerted a great influence on the development. At the end of the century 20 electronic age, the development of video art has been beyond our expectation, all kinds of impossible have become possible, the boundaries between reality and virtual has become blurred, the boundary of the image art is difficult to define. In this time whis infinite possibility, it is worthy to study the future of photography. This article is based on the application of intelligent technology, through the smart technology to improve photography, such as by Angle positioning technology, two-dimensional scanning, three-dimensional molding, and the influence of intelligent technology on photography art.

## 1. Introduction

In the history, photographic art can be traced back to 6 million years ago, when Africa's "footprint" was in Africa. Primitive art came into being with the development of human activities. However, due to the undeveloped productivity, painting began to occupy the main part of photography. Although the photography technology and art reached a new height during the Renaissance, its concept and practice were almost the same as before. The technique of Photography technology is especially the same as before, and there is no jump in its development history. Since the dawn of the Industrial Revolution, modern technology marched forward which in turn boosted social productivity. New technologies like physics, chemistry, mechanics and electronics brought a huge impact on the art of photography and changed this art form dramatically.

Today, the field of photographic art has been surrounded by various aberrations of vision, and all kinds of media are full of visual images which are mechanical reproduction, such as lots of pictures, advertisements, movies, 3D pictures, virtual movies and so on. Video art has been changed from a single painting to photography, dynamic photography, multimedia synthesis and computer virtualization. At the same time, the diversity of video art which is the evolution of science and technology has changed the way we view images and consume images. The image is evolved from the instinctive recorded action to reveal, reveal and think. So, the image production which manifest the profound social problems and the reflecting humanistic care are constantly born. These images stimulate our constant thinking, and at this time, digital technology was born just right, and in just over a decade time, the digital technology has come from the ground to the full world, and its impact on video art is very huge. When the bottleneck of technology breakthrough, the video art shows us the richness of the world, and show us that anything is possible. Since then, photography art is no longer the reality trace, and it's line of sight change to the multidimensional perspective, the soul faint, secrecy of exposure, extreme experience, illusion rendering and the regression of dreams.



Photography art is an important subject in video art. Since its birth, it has entered the field of image art in an unprecedented manner. People who are familiar with the history of photography know that the early photography and painting are closely related to each other, and this kind of thunder from the performance theme to the expression technique. But we already had paintings, so there was no need for another kind of clone art. The development of science and technology has brought fresh impetus to photography while the art of photography is in an awkward situation. Since then, photography has been removed from painting, and it has become a portal one subject. The use of new technology enables the acquisition of image technology to continuously improve, such as automatic focus, automatic exposure, automatic film. These intelligent technologies can free photographers from the tedious technical details and then the photographers focus on photography itself. At this level, the development of science and technology promotes the development of photography art form.

## 2. The application of intelligent technology in photography art

### 2.1. *The digital holography*

The computer image processing technology improves the holographic image through two development forms, the first form is computer-generated holographic technology, and the second is computer-controlled direct exposure technology. Digital holography technology uses the digital record and image display technology, which avoids the complicated physical and chemical process on the optical holography. Which can greatly improve the work efficiency, the application is relatively convenient. The digital holography has greatly improved the working efficiency and the application of digital holography is relatively convenient. Photographic technology combined with phase-shift technology and computer digital reduction technology, it can remove the influence of light transmission and conjugate image well. Digital holography is used to obtain high quality digital images. The Figure 1 is the digital holography photo.

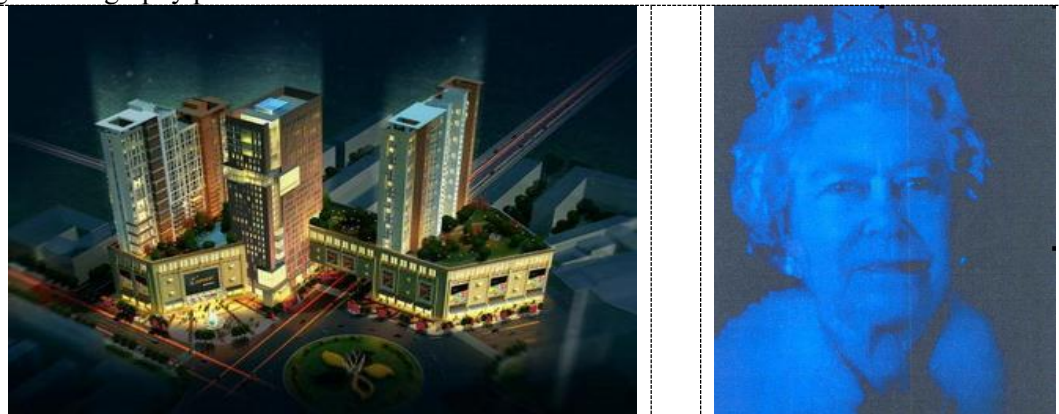


Figure 1. Digital hologram photography

### 2.2. *High-speed photography*

High-speed photography mainly uses high-speed camera to slow down the movement, resulting in unique artistic charm. In some films, the hero dies, and when the soldier is shot down from a height or falls, we often use high-speed photography for resulting an extremely slow motion, forming a unique artistic effect. This kind of high-speed photography will enhance authenticity. So we often use high-speed photography to shoot water droplets and apple. The Figure 2 is the high-speed photography for water droplets.

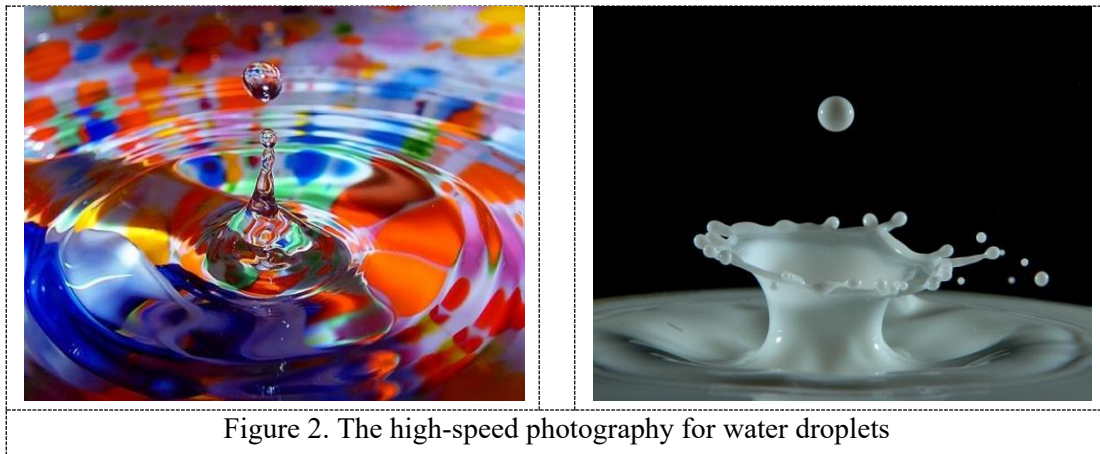


Figure 2. The high-speed photography for water droplets

### 2.3. *Slow photography*

When we shoot a moving object using slow photography, it will leave a moving image on the film at the moment of exposure. To some extent, this image is a virtual shadow. When the image is faster, the image is more virtual. This method of shooting will produce a virtual reality effect. This kind of shooting technique will be able to shoot the movement of the moving object, the picture is angry. Slow photography is often used in sports photography to show the state of intense competition. The Figure 3 is the slow photography for sports competition.

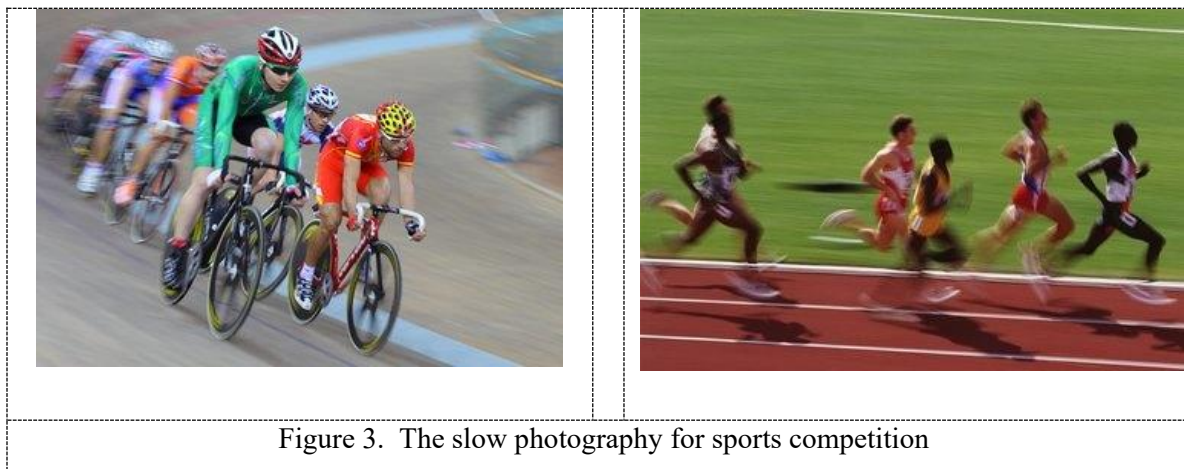


Figure 3. The slow photography for sports competition

### 2.4. *3D image shooting*

The shooting process of 3D image is very different from that of the usual photography art creation. Traditional photography requires accurate, layers and bright colors pictures. However, it is necessary to have the ability of picture organizing and novel in art, which can arouse the audience's resonance. Picture 4 is 3D images which are taken with the light of natural light.

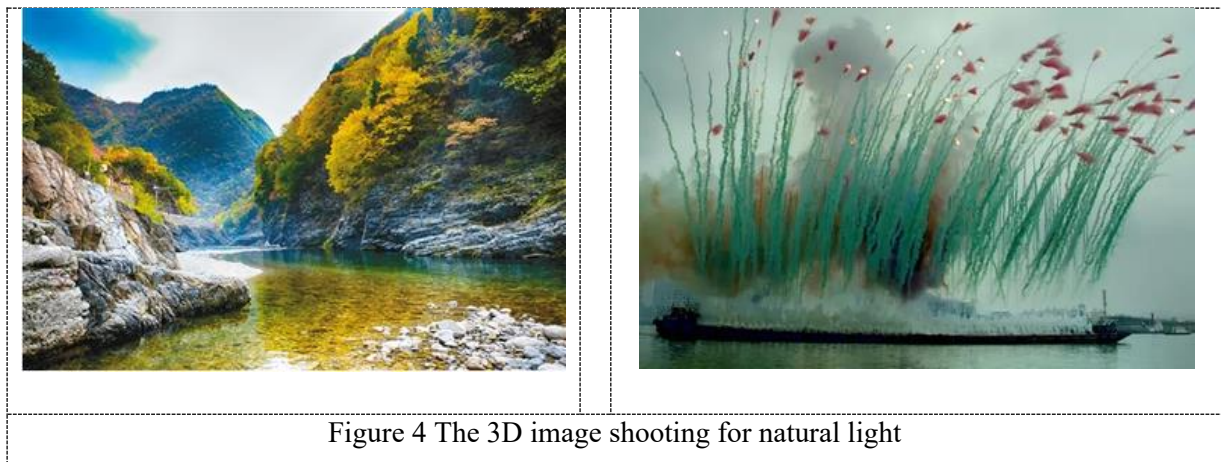


Figure 4 The 3D image shooting for natural light

### 3. The influence of intelligent technology on photography art.

#### 3.1. *Impact on photography culture*

Intelligent technology has changed the convenience of photography and allows ordinary people to enjoy the photography art. The popularity of photography allows people to obtain the high-quality pictures, while the intelligent photography has also influenced people's photography psychology. These changes have had a great impact on the photographic culture. Digital photography has made the photography more and more entertaining, and this feature is becoming more common. This kind of photography culture enriches the public life and along with the development of intelligent technology, the enjoyment of photography art is becoming weaker and weaker. More and more attention is paid to the entertainment of photography, and the nature of the photography art is increasingly neglected.

#### 3.2. *Impact on the concept of photography.*

Along with the rapid development of digital photography technology, people need not think about the technology of photography, and people's observation in the art of photography is gradually weakened. With the diversified photography art forms, it is difficult to pursue unique forms of expression, so the expression style of photography art can hardly be innovated. Along with the neglect of practical experience and technique, people may lose something more precious than photography improvement.

### 4. Conclusion

In the new historical period, the intelligent technology has been the rapid development. So the form of photography art should be more faster change with the development of intelligent technology. Along with the development of the art of photography, photography art breaks away from traditional forms of optical and chemical reactions. The photography art which is based on intelligent technology has a special form of expression, and it can transform the photography art into an existing physical camera. Which made the photography developed faster. With the continuous improvement and development of modern photography technology, it has had a huge impact on the news industry and in every field. The development of photography industry can not only effectively improve people's quality of life, but also has an important influence on the sustainable development of society.

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