



Multimedia Digital Micro Video for Noah's Ark Robot Simulation Singing Movie

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Abstract— *In this paper, a novel multimedia product "Noah's Ark" robot simulation singing movie with digital video movie product was made mainly by Iclone 3D software, and combined with the related material, such as mp3 music material and related software. The paper collects relevant information for production and introduce with different topics. Towards the different cases study of the main method is full using of computer software and hardware to complete the relevant audio and video production. The related issues, one by one film production were conducted by using computer hardware and software. Finally can be obtained good results with the product and uploaded to Youtube website for viewing by the related people.*

Keywords— *Multimedia, Iclone 3D, Power-Director, Audio and video production, Robot*

I. INTRODUCTION

There are many works at the multimedia field. Multimedia comes in many different formats. It can be almost anything which you can hear or see. Examples: text, tables, pictures, music, sound, videos, records, films, animations, and more. The most important thing is application it to all of specific fields, for engineering and science. For example there are many engineering application for multimedia, Hsiao [1-6] studied about the extrusion sheet manufacturing for different fluid and heat transfer multimedia features. It is just a part of studies in these related fields. Hsiao et al. [7] investigated digital video production and introduction to the Taiwan Shoufu University by using Iclone and Power Director tools, this is an example for software application to multimedia field. Hsiao [8] studied the digital recreation and game design for E-Commerce Trading of Taiwan Weighted Index by Using MATLAB and Technical Analysis Skill, this is another multimedia application. For the fundamental theory study work, Hsiao [9] had studied about audio and video digital signal conversion by elliptic filter and MATLAB software. There are some website technologies for multimedia application. Web pages often contain multimedia elements of different types and formats. Lee et al. [10] studied for the related wireless network technique. In this study it will learn about the different tools to produce a singing video by Iclone 3D and PowerDirector software. Hsiao [11] investigated energy conversion conjugate conduction-convection and radiation over non-linearly extrusion stretching sheet with physical multimedia effects problem.

Iclone 3D is provided both practical and good operating environment interface, so you can quickly and easily produce professional-looking video works issue. We must first sharpen our tool and clip editing before entering the operating to understand skills and then to make it a beautiful moving film. Iclone3D audio video software can show 3D robot simulation results and make the characters. Iclone 5 is included 3D video effects, path dynamic, high dynamic range image (HDR) and quickly drag and drop objects. Such as a new upgrade feature which is combined with the large video and 3D real-time animation. So that you can experience dynamic map, 3D animation and video integrated full video production software [12]. Suit to the department resources of computer related equipments can be professionally produced video features, while carrying out this study, "reminds you sing again tonight" put the album to produce the micro movie product of research work.

Iclone 3D digital video album production, mainly associated with the use of animation software Iclone etc. related topics will appear, so this study can also be applied in such manner as the real use of the environment and education and training of reference. The album producing video and upload to Youtube site for viewing digital content has become today an important requirement for the project production, most of the singing movie still photos and videos and this paper is based mainly Iclone 3D digital movie production methods related albums the study, carried out the film production-related. Corner of singing movie is relatively eased to obtain, both lyricist and composer are a very special professional to digital media production. For the lovely singing people who can use of existing works to be digitized singing manufacture into a different form of the video film, it is a scope of the fundamental creation. The original singers are still the main aspects of singing who still own a better record and it can be referenced to create another good work. Usually to avoid copyright infringement, making the movie titles should be indicated in the name of its original singer, lyricist, and composer. Do not as the profit-making purposes and should not be used for other special purposes, unless agreed to by the record company and author. For these reasons, the production of this paper to sing the song by own recording complete attaining with the relevant requirements of the digital video album production. In addition to the original terms of lyricist, composer creative works are attained with the characteristics of the system targets.

II. MAIN CONTAINS

In this paper, the hardware and software have been used, and the important functions as follows:

2.1 Iclone main functions:

- (a) Quick edit: Manufacturing environment is provided drag and drop editor for the production, editor objects within the scene, advanced timeline animation.
- (b) Casting & Actor Style can customize the actor and style, body and facial deformity adjustment, CloneCloth Custom Design the robot characters simulation.
- (c) Action & interactive action editor within scenes, 3D face even manipulation, interaction for actor and object.
- (d) Props & scenes and shades in 3D blocks to design scene. The scene can be customized with weather, with terrain, sky, nature plants to build scenes.
- (e) Cameras & lights with dynamic camera to fit the depth of field, lens effect, parallel light, spot light, spotlight, HDR and IBL (map lighting) effects.
- (f) Effects material its effects with seven map channel, springs and flowing surfaces, can customize the particle effects system.
- (g) Templates of dynamic route path and node establishment, path editor for speed, direction, curve and transition curve.
- (h) 3D video effects applied to any 3D object surface, video textures and mixing effects. To display video with walls, columns, crystal ball, etc.
- (i) To quickly build virtual scene real and virtual scenes roles, roles and interactive with virtual scene, roles and virtual characters / objects interact, HDR video effects and exposure halo effect, can be set to several kinds of light effects video, HDR conversion and filter effects.
- (j) Advanced timeline editor (PRO Only) can be set floating or fixed timeline, the multi-track role control, keyframe dynamic and hybrid.
- (k) Nomogram & output multiple coloring preview menu, high flexibility Output: AVI, WMV, Flash, MPEG-4, high-speed nomogram, 3D stereo output.

This paper that it is used of 3D filmmaking Iclone as function tool, the full application of the above characteristics, and using different movie skills by adding PowerDirector production of animation films to make singing creative work.

2.2 PowerDirector profile:

PowerDirector [13] has a powerful and easy to use editing tools to help users quickly make a wonderful movie with professional admirable effects. Subvert the traditional thinking of the timeline clip, evolution nonlinear timeline editing features. It is not only the overlay clip features up to 100 tracks, but also using a more complete subversion of traditional concepts clips. It is included videos, photos and audio clips can be completely free standing, moving, editing, copy editing for each track. Allowing you to enjoy the movie strengthen creative tools, PowerDirector TrueTheater™ built-in audio and video technology which have the ability to upgrade the standard-definition video to near HD high definition, remove film grain, color and brightness correction and smoother playback effects. As well as more advanced features, such as audio clips are waiting you to explore. It has been contained new WaveEditor audio clip device allowing you to perfectly elastic clip music tracks which including the cut film, volume enhancement and fade, speed and pitch adjustment settings. Full-HD high resolution instant preview which allows you to instantly play by your way to preview the clips full-HD high resolution video, and the situation will not have the effect of delaying or waiting preview occur. This study is used PowerDirector as a function of production integration, the full application of the above features to make singing film and to upload Youtube for people to watch.

2.3 Singing footage preparation:

"Noah's Ark" is a very beautiful song with Minnan language, their original singer, lyricist, composer and lyrics are as follows:

- (a) Original singer: Shiang (singer is replaced by Kai-Long Hsiao, in order to increase the effect of originality)
- (b) Lyrics arranger: Mayday + Chen Jianqi
- (c) Composer: Martha

Goodbye, Strawberry Donut, Corner Café, Raindrops
Goodbye, old black and white photo, memories cinema, buried in the ground
Goodbye, the park we first met, the day who kissed who was forgotten by the swing
Goodbye, so many famous cars and shoes, we can only take away the name of memories of the garden at last
If you want to say goodbye, if tonight will all goodbye
If you can only make a phone call to whom you will assign
Goodnight parrot and peacock, leopard and human looking at the sea
Goodnight films and discs sink drift are like poems
Good night, the goddess of freedom drifted to Wall Street, We touched the top of the tower on top of the tower spire
Good night, dolphins leap out of the roof of the original fantasy in Tibet, this day will be more beautiful than the fantasy
Or to leave or abandon the world the elevation below the sea

What memories will you put in memorials inside the luggage
Finally to say goodbye to finally no more tomorrow to chase
What you regret is still incomplete or not perfect
When the comet burns the horizon meteorite like a raindrop
When the radiation is more intense than the sun
When love gets strong When each section of fate is more heroic
When forever becomes a distant point when the sentence becomes a point of view
Let mankind finally become the same
A courageous bid farewell to the past and the future
Farewell to each blood status, personnel status, intelligent or ignorant
The last farewell last wish is to learn to fly
Flying in the absence of alpine grassland sky and blue sky
Let Noah's Ark heading the sea level
Let Noah's ark heading for the day line
Let Noah's Ark heading the skyline
Let Noah's Ark heading for the infinite

III. INVESTIGATE METHODS

- (a) To collect relevant information. Set the title "Noah's Ark".
- (b) Organize information and create song recording. (Including MP3 music and movies, such as subtitles)
- (c) The study is decided to use software of PowerDirector and Iclone and other items.
- (d) The related videos convert to PowerDirector and Iclone movie products.
- (e) Using PowerDirector and Iclone integrated products.
- (f) To complete the "Noah's Ark" movie and to upload Youtube.
- (g) Paper typesetting production.

IV. RESULTS

- (1) A multimedia work has been made by using PowerDirector and Iclone and other related software. "Noah's Ark t" –a Chinese video (It has been uploaded to Youtube please link to the following URL). https://www.youtube.com/watch?v=a2mtBjc-X_I
- (2) Some examples of the important results which are obtained by the video movie, and the storyboard can be separated case by case, and their important storyboards are become the pictures listing as follows:



Figure 1 "Noah's Ark" with the movie titles by Chinese text (including song title, singer, lyricist, composer)

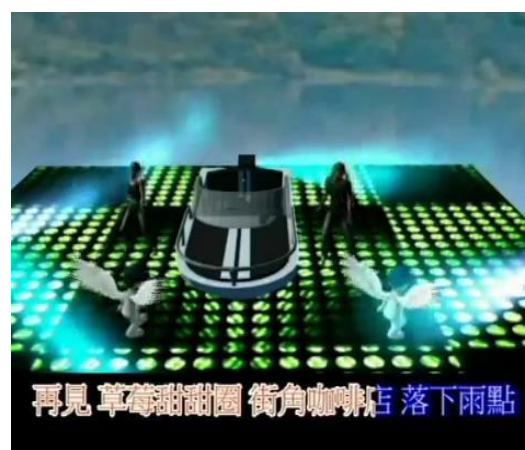


Figure 2 "Noah's Ark" Iclone double persons dance storyboard



Figure 3 "Noah's Ark" Iclone single person dance storyboard

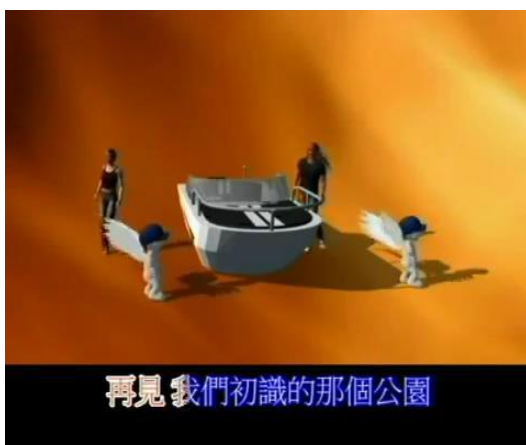


Figure 4 "Noah's Ark" Iclone single person dance movie storyboard



Figure 5 "Noah's Ark" Iclone four persons dance storyboard



Figure 6 "Noah's Ark" Iclone four persons dance storyboard



Figure 7 "Noah's Ark" Iclone three persons dance storyboard

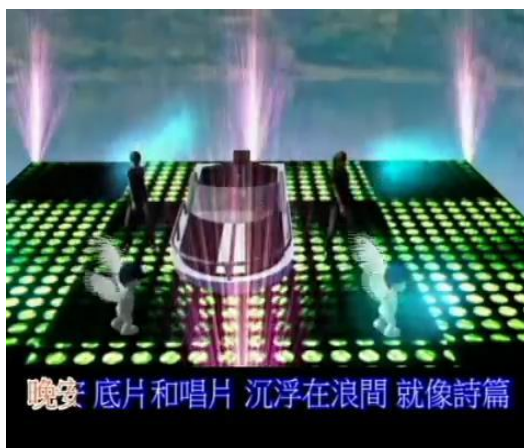


Figure 8 "Noah's Ark" Iclone four persons dance storyboard

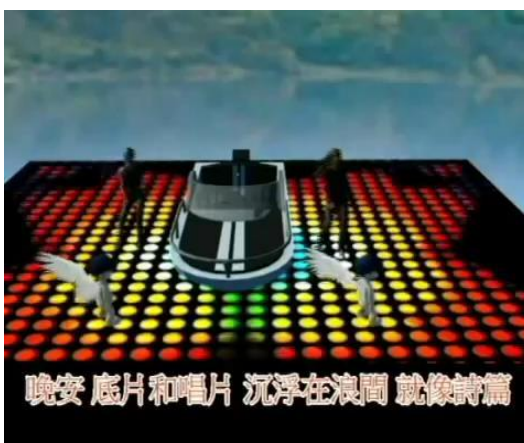


Figure 9 "Noah's Ark" Iclone 4 persons dance storyboard

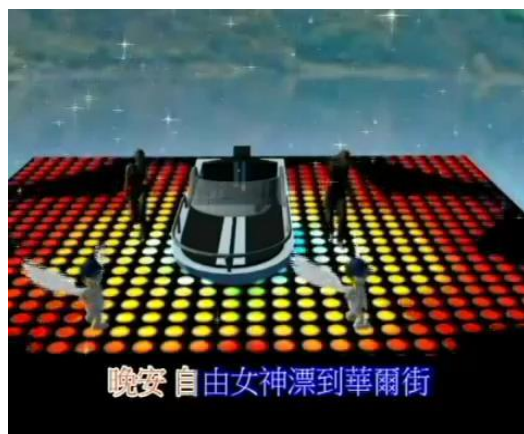


Figure 10 "Noah's Ark" Iclone 3 persons dance storyboard

V. CONCLUSIONS

The study its important results and conclusions are as follows:

- (1) In this study, we used a different software PowerDirector & Iclone to complete production related videos.
- (2) This paper is provided the above two ways to achieve the desired mix of different software features combination products.
- (3) This paper is collected information about filmmaking prime material, including, "Noah's Ark" music elements, effect materials, subtitling, Iclone animated films and other products produced.
- (4) Including the use of two or more software skills, and familiar with the operation skill.
- (5) From the results, it can be found the effect for traditional 2D and 3D effects, you can mix and complete a film product.
- (6) Since the "Noah's Ark" with wide coverage, only parts of the characteristics to complete presentation by this study. I believe there are many growing interest in the future to continue make and discussion for related digital video of singing.

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