

Holographic Projection Technology

¹Ghankuntla Rana, ²Khusboo Patel, ³Vijay Kumar Dewangan, ⁴Bhavani Pratap Rather, ⁵Manisha Dewangan

^{1,2,3,4,5} BE Student, Electronic & Telecommunication, Kirodimal Institute Of Technology Raigarh (c.g.), India

Abstract: The Holographic Projection Technologies of the Future are moving forward fast and as you can image there are many entrepreneurs who are dreaming up some "Killer Applications" for this new science. In fact the one industry analyst from the Online Think Tank acknowledges that the new Cell Phone Holographic Projection technologies have a market value of 500 million to 1.5 Billion Dollars in the first 18 months to two years and that is just the Introduction. You see, Holographic Technologies are getting closer to becoming reality and soon we can see the data on our computers in 3D, 4D and 5D. We will enjoy Virtual Reality on our 360 X-Box in our living rooms. I propose that we fund those who wish to go one step further and wish to design a Virtual Reality Pyramid using Holographic Technologies in 3D, 4D and 5D.

Keywords: Holographic Projection Technologies, Virtual Reality Pyramid using Holographic Technologies.

1. INTRODUCTION

Holographic Laser Projection Technology:

Conventional lamp-based imaging projection technology is unable to simultaneously satisfy the demands from consumer-electronics manufacturers for projectors that are small, low in cost, consume little power, and offer a robust implementation, all while providing high-quality images. A number of LED- or laser-based micro projector technologies are now being developed to address these issues. Here, one manufacturer details its approach – a unique holographic laser projection technology that offers advantages over imaging and scanned-beam display technologies.

What is 3D Holographic Projection Technology:

This is entirely a Latest and vary unique "Hi-Definition Projection Technology" in which a person is Captured in 3-dimensional Aspect with a Sp. Hi-Definition Camera on a specially built Stage and Projected "As Is" at various Distant Locations "At -A - Time". Viewers at the other end will feel the presence of REAL Person in front of them and also interact with the projected "Virtual" person, without wearing any kind of 3D glasses, as they interact with "Actual Person".

How 3D Holographic Projection Technology works:

Holography is a technique that enables a light field, which is generally the product of a light source scattered off objects, to be recorded and later reconstructed when the original light field is no longer present, due to the absence of the original objects. Holography can be thought of as somewhat similar to sound recording, whereby a sound field created by vibrating matter like musical instruments or vocal cords, is encoded in such a way that it can be reproduced later, without the presence of the original vibrating matter. A clever reimagining of the Pepper's Ghost technique lets your magic happen. It starts with the patented foil, completely invisible to the naked eye. Rig it at 45° across the stage and then bounce content off a projector screen. This is then reflected upwards, reflects off the foil and gives the impression of a real 3D volumetric image on stage.

2. 4D HOLOGRAPHY

HOLOGRAPHIC PROJECTION USES AND APPLICATIONS:

NASCAR Driver Training:

Martial Arts Holographic Sparring Partners, to prevent injury and practice for countless hours alone, thus developing reflex in defensive tactics.

Modeling Holographic Projection to Study Hurricanes, projecting these in classrooms and for weather modification scientists to study. We can learn a lot from studying airflows in natural vortexes.

Public Speaking Fears Defeated in Virtual Reality, project the crowd in front of them, getting use to talking in front of very large group
Holographic Art for the Lazy Modeler, instead of building models of concept cars, designs and what not, simply make them in the virtual world, save them and allow one to make modifications, saving the original, via 3D cad cam program - also good for a Holographic Super Computer Wind Tunnel Testing for aircraft model design.

Holographic Big Game Hunting of Endangered Species, hunt hologram projected imaging without killing the actual animal - make it so the holographic animal is the same in every way.

Holographic Husband Soldier Companionship, when men go off to war the women can have a holographic husband to serve as a companion, to keep them feeling good.

Holographic Projection and Accident Recreation in Virtual Reality to determine what happened and to prevent it in the future and allow engineers to see the accident and parts failures to determine prevention methods in the future designs.

Hang Gliding Training Through Holographic Projection, learning to fly a hang glider is dangerous and VR holographic simulation would be another great application.

Viewing a tattoo, before you put it on permanent, should be relatively simple to do and would certainly help people make a better choice or none at all?

Presidential Debates in Holographic Future Virtual Reality, this way the debates could be done without the participants meeting together.

Save Endangered Species with Virtual Reality Holographic Projection, so even if we lose the species we can still study it forever.

Training Teachers with a virtual classroom of little monsters fooling around; Teacher Training in Virtual Holographic Classrooms could help the new teachers adapt to a real problematic classroom.

3. CONCLUSION AND CONCEPTS

Holographic Technology and Spectral Imaging has endless applications, as far as the human mind can imagine. These technologies are indeed available and getting more robust in abilities each year. Holographic Technologies are not just about art or business communication, they are about safety, security, education, planning and the strength of our civilization here and beyond.

From entertainment to data visualization we can see a bright future for Holographic Projection and the bending and manipulation of light. Those areas of society which most often bring about research and development funding in technology are present amongst the many potential applications for this science. It therefore stands to reason and makes common sense that Holographic Technologies and Spectral Imaging will become a very integral part of human societies and civilizations in the future.

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- [2] Augmenting Holograms Editors: Larry Rosenblum and Simon Julier 5D Data Storage by Ultrafast Laser Nanostructuring in Glass Jingyu Zhang*, Mindaugas Gecevičius, Martynas Beresna, Peter G. Kazansky Optoelectronics Research Centre, University of Southampton, SO17 1BJ, United Kingdom jz2e11@orc.soton.ac.uk