

DIMEA
2008

3rd ACM

International Conference on
Digital Interactive Media in Entertainment & Arts

10-12 September 2008

Athens Information Technology
Athens, Greece



DIMEA 2008 – Industrial Exhibition

Exhibition chair: John Karigiannis

Virtual Cinema Demo Foundation of the Hellenic World

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Group/Institute: Foundation of the Hellenic World (FHW)

Country: Greece

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Description

Virtual Cinema is a portable – easy to install - immersive environment that provides guided tours to 3D reconstructed ancient cities and monuments of significant cultural value to a group of participants. The Virtual Cinema is comprised of a large bright silver screen 3.2 meters wide and 2.4 meters high, while it facilitates a resolution of 1024 x 768. The specific infrastructure accommodates approximately a group of 15-20 to people to stand in front of the screen, while 2 passive polarized projectors (linear polarization) are placed in the front area of the screen at a higher projection point. With the use of stereoscopic glasses the audience experiences the immersion to the specific environment selected. Furthermore, with the use of a wireless interactive hand device, one of the visitors has the opportunity to guide the rest of the audience freely and to participate actively in the exploration while sometimes dynamically alter entities and parameters of the virtual environment.