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MASTER'S THESIS

4K Digital Cinema: How to Fully Integrate a Professional Technology into an Innovative Artwork in order to Present a Future Standard of Digital Cinema



Academic Year 2010

Graduate School of Media Design - Keio University

by Fabien Delmotte

THESIS COMMITTEE

Master's Thesis submitted in partial fulfillment of the requirements for the degree of MASTER of Media Design at the Graduate School of Media Design, Keio University.

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4K DIGITAL CINEMA:

HOW TO FULLY INTEGRATE A PROFESSIONAL TECHNOLOGY INTO AN INNOVATIVE ARTWORK IN ORDER TO PRESENT A FUTURE STANDARD OF DIGITAL CINEMA

ABSTRACT

Based on the threshold of an historic transformation in digital cinema , the author joined in an innovative project at the Graduate School of Keio Media Design which aims at evaluating 4K, a future standard of digital cinema. The author and his team were involved in the creation of a 4K workflow in order to create a 4K artwork portraying two short movies. The action research focuses on explaining the process of using 4K technology in a systematic manner, from the definition of 4K digital cinema to the analysis of 4K production, 4K post-production and 4K playback. Throughout the series of actions to achieve the final-cut in 4K resolution—4096 x 2160 pixels—, we encountered several issues that will be exposed in this research. Yet, even though 4K enjoys widespread recognition as a desirable standard, some may suggest that 2K digital cinema projection—2048 x 1080 pixels—is sufficient.

KEYWORDS: 4K, Technology, Digital Cinema, High resolution, Workflow, Production, Post-production, Playback, Narrative.

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