Sony Digital Cinema™ 4K Projection Systems are the Industry’s First to Achieve Full Compliance with DCI Specification

Tokyo – March 28, 2011 – Sony Corporation is announcing that its digital cinema 4K projection systems are the industry’s first to successfully complete the full range of compliance tests for specifications required by Digital Cinema Initiatives, LLC (DCI). Both the SRX-R220/LMT-200 and SRX-320/LMT-300 integrated systems, including projector and media block, have passed all DCI compliance tests, and are listed on the DCI web site. DCI Web Site: http://www.dcimovies.com/compliance/index.html.

Sony was accredited under the DCI specification for its “integrated projection systems.” These systems are based on the ground-breaking Sony 4K projector that can present ultra-high-resolution images (8.85 million pixels, four times as many as 2K) and a server that can securely store digital cinema content and transfer it to the projector. Each of the Sony systems were certified as “a working system that can be fully deployed in theaters,” according to DCI.

(4K Digital Cinema Projector: SRX-R320) (Media Block: LMT-300 (incorporated in the chassis of SRX-R320))

The DCI Digital Cinema System Specification (DCSS) provides for “an open architecture for
digital cinema that ensures a uniform and high level of technical performance, reliability and quality control,” and particularly emphasizes security and protection for digital cinema content.

The DCI specification prescribes the data file format called “Digital Cinema Package” (“DCP”), in which the encryption method of a digital cinema program is included. The DCP can be distributed by satellite or delivered to theaters by hard disc drive (HDD). The cryptographic key is also delivered to the theaters. The DCP is decrypted with the cryptographic key by the cinema server, and screened by the projector. The DCP is embedded with an electronic watermark (forensic mark) enabling copies of illegally recorded content to be traced back to the theater where the recording occurred. Security measures such as an anti-tamper function are also incorporated in the projection system to prevent DCP files from being stolen, eliminating the possibility of pirated production.

The DCI compliance tests for Sony’s systems were conducted by Research Institute for Digital Media and Content, Keio University, Japan, which is qualified by DCI for compliance testing. The compliance test consists of two parts, a procedural test to confirm if the devices work exactly as prescribed by the DCI Specification and a design evaluation to examine if their security design meets the requirements of the DCI Specification.