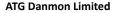# Video ingest, post production and archiving system for the Royal Opera House

ATG Danmon is one of the world's most successful providers of high-end reliable and easy-to-operate integrated systems for broadcasters and programme makers.

Active in Europe, Asia, Africa and the Middle East, ATG Danmon is part of the Dan Technologies Group which operates from offices in the United Kingdom, Germany, Denmark, Norway, Portugal, Spain, Sweden and Vietnam.

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ATG Danmon has designed and integrated a video archiving system for the Royal Opera House in London's Covent Garden. The theatre records many of its performances for relay to audiences at viewing theatres around the world. With this facility, the ROH media staff are able to ingest each performance into a production server linked to an online storage archive and a near-online data tape library. The system also provides the ability to search and retrieve content.

The system includes a Rohde & Schwarz Venice server used for ingest, post production and playout A key requirement was the ability to log each performance and add descriptive metadata to permit fast searching of archived content. Content access is controlled from Square Box Systems' CatDV media asset management software. ATG Danmon has also integrated a Studio Network Solutions (SNS) EVO shared storage server and Quantum LTO-8 long term storage tape drives with Archiware backup management. An important additional element was freedom to upgrade the system quickly and easily to 4K UHD whenever required.

A 4K UHD-ready ingest and playout platform the Rohde & Schwarz Venice manages classic video server tasks such as HD-SDI ingest, studio and channel playout as well as file-based tasks such as file import, transcoding and media transfer operations. Housed in a 2U chassis, it can be integrated into an existing system environment via FIMS, MOS or VDCP protocols.

Square Box Systems' CatDV media asset management system provides a scalable cross-platform database that can handle a wide range of content file types. It creates a catalogue of media assets, including video, still images, audio files and documents. Operators can log metadata to make content searchable using key words as well as clip titles. CatDV also provides analysis and transcoding of media files with advanced logging tools, sequence editing and integration with non-linear editing applications.

SNS' EVO is a complete, networked, high-performance shared storage workflow server designed for video/film/TV, graphics, VFX, animation, audio, and broadcast production environments. EVO servers are produced in various sizes and capacities, from the 1U EVO Prodigy up to the EVO 16 Bay which can accommodate 80 drives per managed system, 28 GbE ports, 12 Fibre Channel ports and multiple 10 Gb Ethernet ports. EVO features include built-in SAN and NAS, automatic project file locking, project/bin sharing, asset tagging, cloud integration, and LDAP/AD. Up to 960 terabytes per managed system can be accommodated.

Quantum's LTO-8 tape drive accommodates up to 30 terabytes of data per cartridge with compressed transfer speeds of up to 2.7 terabytes per hour. Content is protected by AES 256-bit data encryption security. LTO-8 drives are also LTO-7 playback compatible.

The Royal Opera House (ROH) is a major performing arts venue in Covent Garden, central London. It is the home of the Royal Opera, the Royal Ballet, and the Orchestra of the Royal Opera House.

ISO 9001   No. FS 544441