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Title

AME-III Magnetic Tape Technology for AIT-5

Abstract

As data storage requirements continue to grow, magnetic tape manufacturers are challenged with increasing the density of media while maintaining the same form factor of the cartridge. How is that an 8mm cassette that once was capable of a native capacity of 25GB can now store 400GBs? The answer is a combination of MR head design and dynamic tracking in the hardware, coupled with particle size and coating smoothness with the media. Join us for a brief, but deep, look specifically at the media and the advances behind AME-III (Advanced Metal Evaporated) tape employed by the new AIT-5 (Advanced Intelligent Tape) format.

Biography

Wayne Desmond started his career in 1981 with RKO Tape Corporation, a high-speed audio/video tape duplication facility, where he headed up their QC operations from 1983 to 1988. Over the next 14 years, he supported U.S. audio/video duplicators for the magnetic tape divisions of Agfa Corporation and BASF Corporation in technical support and senior engineer roles respectively. Wayne represented these divisions on the AES/ANSI Joint Technical Commission for the Preservation and Restoration of Optical and Magnetic Media, and has presented technical papers and workshops at seminars including the International Tape/Disc Association, Audio Engineering Society and Society of Motion Picture and Television Engineers.

Wayne joined Sony in 2002 as national training manager responsible for product training on consumer, data and professional recording media.