

## New Digital Receiver Technology from Motorola Solves Multipath Problems

Broadcasters expressed concern recently when third-party test results showed that multipath reflections interfered with DTV reception. Addressing this issue, Motorola, in collaboration with television pioneer Sarnoff Corporation has created a revolutionary digital signal processing architecture and its first implementation in the MCT2100 demodulator and forward error correction (FEC) chip. The chip uses advanced proprietary algorithms and unique equalization architecture, providing excellent signal reception even for the most extreme static and dynamic multipath signal ensembles.

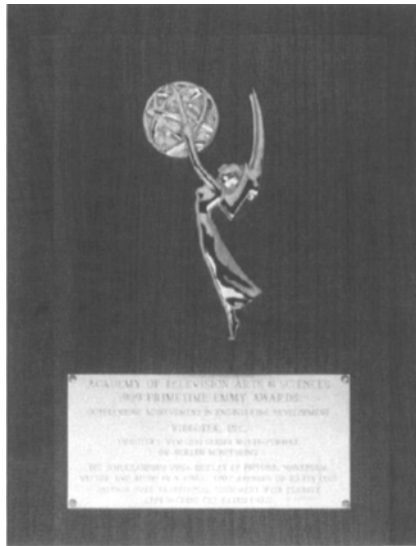
Early implementations of 8-VSB (vestigial side band) HDTV transmissions showed problems in dynamic multipath and long-delay static multipath reception. The MCT2100 compensates for a broad range of dynamic echo ensembles with echo amplitudes approaching the level of the desired signal. In static multipath with long delays, the MCT2100 corrects ghosts with up to 41 microseconds of delay. It achieves this by incorporating a full equalizer design, which avoids the sparse equalizer techniques, that compromise performance.

This new development by Motorola solves a potentially serious reception problem in digital and high-definition television broadcasts that use the ATSC transmission standard.

## Technicolor Buys Stake In Real Image Digital

Technicolor has announced that it has acquired a significant interest in Real Image Digital, a leader in the development of digital cinema. As part of the transaction, Technicolor is acquiring 49% of Real Image Technology, Inc., by investing \$23 million in cash with a mechanism to acquire an additional interest in the future on pre-negotiated terms. On the basis of successful trials, Technicolor will invest a further \$60 million in order to develop the business.

A leading innovator in motion picture technology since bringing color to the movies 80 years ago, Technicolor, together with Real Image and its technology partner, Sarnoff Corporation is now poised to offer its customers digital delivery of movies alongside its existing services. The deal represents an historic move in the evolution of the motion picture industry.



## Videotek's VTM-200 Awarded Engineering Emmy

The Academy of Television Arts and Sciences has awarded an Engineering Emmy to Videotek for development of the VTM-200 multiformat on-screen monitor. Developed to save costs and provide greater flexibility of display that was neither available nor possible in traditional CRT-based devices, the multiformat concept (both digital and analog, NTSC and PAL in a single box) was also an important consideration in the basic concept. Basic functions of the VTM-200 includes support for analog composite, analog component, 601 serial digital video in all common video formats, and the ability to change inputs with the push of a button.

The Engineering Award is presented for achievements that exhibit a high level of engineering and are important to the progress of the industry.

## PIMA Elected to Associations Advance America Honor Roll

The Photographic and Imaging Manufacturers Association, Inc., (PIMA) has been elected to the Associations Advance America Honor Roll, a national awards competition sponsored by the American Society of Association Executives, Washington, DC. For nine years, the prestigious Associations Advance America Awards have recognized associations that propel America forward, with innovative projects in education, skills training, standard-setting, business and social innovation, knowledge creation, citizenship, and community service. PIMA received the

award for its Airport X-Ray Warning Program, which issues a warning to airline passengers that should aid them in protecting unprocessed photographic film from X-ray damage. The warning states "Keep your film with you in your carry-on luggage when boarding a plane. Do not put it in your checked bags." The warning is based on an extensive round of tests carried out by the major manufacturers of film such as Agfa, Fuji, Kodak, and Konica under the aegis of PIMA, and was necessary because of the introduction of a new version of X-ray machines by the FAA designed to detect explosives checked in baggage.

## Calendar

### SMPTTE Activities

MILAN, ITALY—SMPTTE 1999 International Conference, *October 14-15, 1999.*

NEW YORK, NY—141st SMPTTE Technical Conference and Exhibition, *November 19-22, 1999.*

SAN FRANCISCO, CA—34th SMPTTE Advanced Motion Imaging Conference, *February 3-5, 2000.*

For more information on these and other SMPTTE activities contact SMPTTE Headquarters: 914-761-1100; fax: 914-761-3115.

### OCTOBER

IBTS '99, Milan, Italy. Info: IBTS '99, 11, Via Domenchino, I20149 Milan, Italy; tel: 39(0)2-4815541; fax: 39(0)2-4980330; e-mail: [assoexpo@assoexpo.com](mailto:assoexpo@assoexpo.com). *October 14-18, 1999.*

### NOVEMBER

ASA, 138th Meeting, Columbus, OH. Info: Acoustical Society of America, 500 Sunnyside Blvd., Woodbury, NY 11797, tel: (516) 576-2360. *November 1-5, 1999.*