



EXECUTIVE

David L. George
Editorial Vice-President

Frederick M. Remley
Chairman/Board of Editors

Lynette Robinson
Executive Director

JOURNAL STAFF

Jeffrey Friedman
Editor/Publisher

Joyce R. Hurwitz
Senior Editor

Aileen Moroney
Assistant Editor

Mathew V. Kuriakose
Production/Graphics Supervisor

MaryAnn Frusciantie
Production Coordinator

Marilyn Waldman
*Advertising/Editorial/Program
Coordinator*

ENGINEERING

Sherwin H. Becker
Director of Engineering

Mark S. Hyman
Staff Engineer



Advertising Representative: Oliver Treyz,
Oliver Treyz, Inc., 250 W. 57 St., Suite 1001,
New York, NY 10107. Phone: (212) 245-
8800; Fax: (212) 245-6730.

Printed in the USA

SMPTE Journal®

VOL. 103, NO. 10

OCTOBER 1994

ARTICLES

The Evolution of Digital Audio and Video Format Conversions <i>Keith Y. Reynolds</i>	644
3-D for the Nineties — A Wide-Field Stereo IMAX® Camera <i>G. Harris, W. Shaw, M. Dean, M. Hendriks, M. Omidvar, H. Murray, and K. Baker</i>	648
An Optical Disc Solution for Digital Video Storage <i>Richard L. Wilkinson</i>	656
Multistandard Image Sequence Storage — ISP500 <i>Wolfgang Jourdan and Harald Näther</i>	662

SMPTE TUTORIALS

Displays and Colorimetry for Future Television <i>LeRoy E. DeMarsh</i>	666
Digital Television System Scalability and Interoperability <i>Stanley N. Baron</i>	673

SMPTE REPORTS

Rewriting RP 103: Handling and Care of Magnetic Tape for Television <i>Tom Cavanagh, Robert Herman, and Marvin Nolan</i>	677
The 1995 SMPTE Advanced Television and Electronic Imaging Conference, February 10-11, 1995, San Francisco, Calif.	682

SMPTE NEWS AND DEPARTMENTS

Section Meetings	683
News	685
Calendar	686
Engineering News	687
New Products	688
Classified	690
Professional Services	691

STANDARDS AND RECOMMENDED PRACTICES

Proposed SMPTE Recommended Practices	693
<i>RP 103, Care, Storage, Operation, Handling and Shipping of Magnetic Recording Tape for Television; and RP 154, Reference Signals for the Synchronization of 525-Line Video Equipment</i>	
Proposed SMPTE Standards	696
<i>SMPTE 267M, Television — Bit-Parallel Digital Interface — Component Video Signal 4:2:2 16 x 19 Aspect Ratio; and SMPTE 274M, Television — 1920 x 1080 Scanning and Interface</i>	

SMPTE Journal (ISSN: 0036-1682) published monthly by the Society of Motion Picture and Television Engineers, 595 West Hartsdale Ave., White Plains, NY 10607. Second-class postage paid at White Plains, N.Y., and at additional mailing office. Copyright © 1994 by the Society of Motion Picture and Television Engineers, Inc. All rights reserved. Printed in the U.S.A. No part of this issue may be reproduced without written permission of the publisher. Statements and opinions expressed in articles or editorials in the *SMPTE Journal* are expressions of contributors and do not necessarily represent the policies or opinions of the Society. Advertisements appearing in this publication are the sole responsibility of the advertiser. Subscription rates: SMPTE members, \$20.00 included in membership dues; nonmembers, U.S., \$75; elsewhere, \$85.00; airmail surcharge in addition to nonmember rates are: Europe \$50.00, Asia \$65.00. Single copy, \$8.00. MEMBERSHIP in SMPTE is available according to qualifications at the following annual dues: Active Member, \$65.00; Student Member, \$25.00. All members receive the *SMPTE Journal* as part of membership.

POSTMASTER: Send change of address to *SMPTE Journal*, 595 West Hartsdale Ave., White Plains, NY 10607-1824.