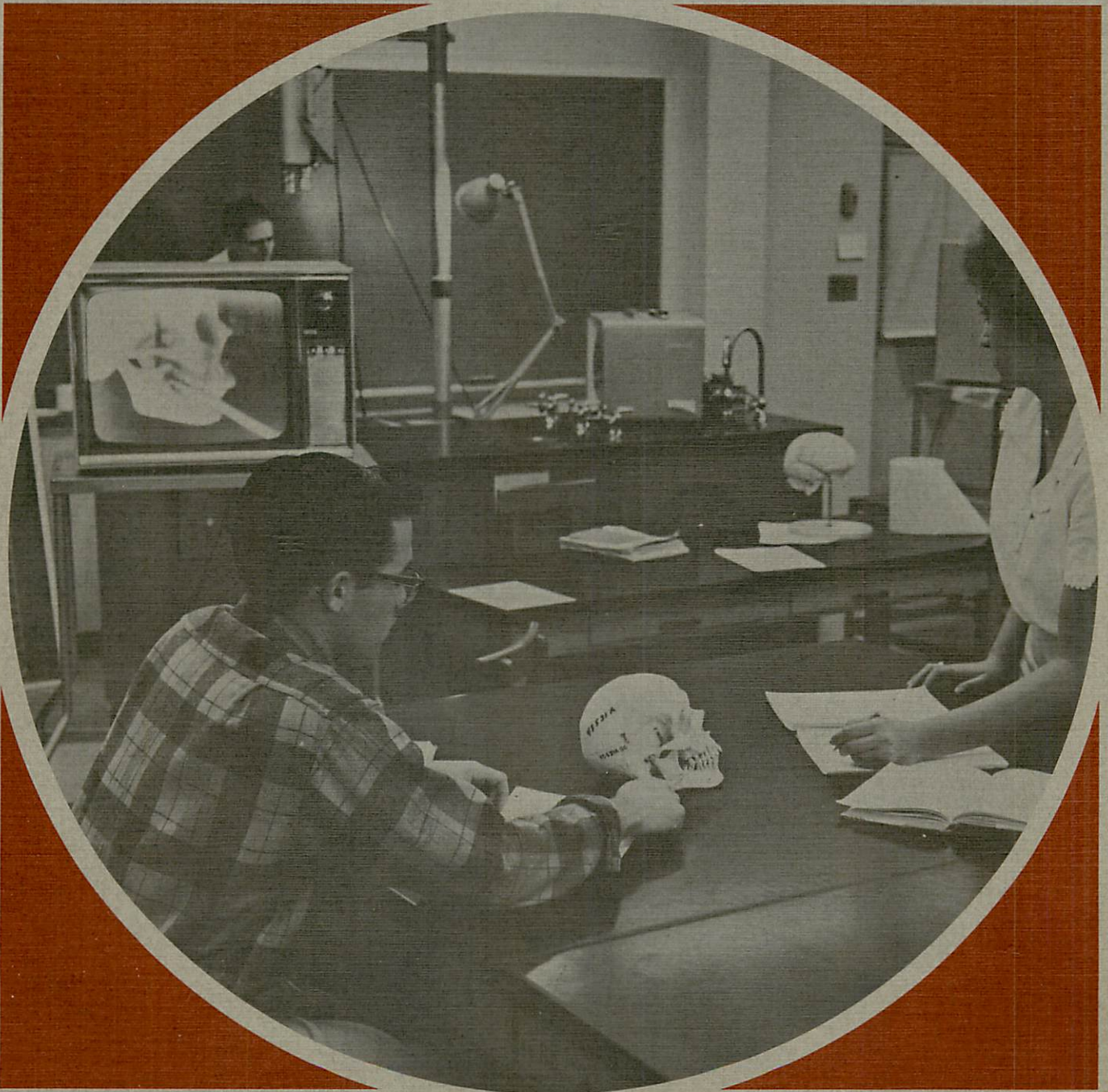


MEMOREX

PRECISION CLOSED CIRCUIT VIDEO TAPE



THE COMPUTER HISTORY MUSEUM



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MEMOREX CORPORATION has gained recognition as the world leader in the development and manufacture of the highest quality magnetic tape for use in computer, instrumentation, broadcast, and closed-circuit television applications. ■ Over the years, Memorex built up to this reputation by pursuing a methodical approach to every detail in researching and producing *the* superior tape. ■ A balanced team of polymer chemists, tape recording specialists, magnetic phenomena physicists and process engineers results in a technological leadership in the industry next to none. ■ The first manufacturer to concentrate on precision tape products only, Memorex has operated on the principle of continual tape improvements. ■ MEMOREX FACILITIES, exceeding 200,000 square feet, are the most modern in the industry. Major plant additions were completed in 1962, 1964 and again in 1966 to augment main development and manufacturing facilities in Santa Clara, California. All manufacturing areas are of a dust-free atmosphere, filtered by powerful air-conditioning systems. ■ Specially designed automated equipment, much of which was innovated by Memorex engineers, further enhances the manufacturing and testing facilities of unequalled standards. ■ MEMOREX MANUFACTURING techniques are also unparalleled. Careful attention to the smallest detail—from research to shipping—is a daily standard. ■ There exists an uninterrupted plan of unvarying high-quality production which insures roll-to-roll consistency. Controlled processing of materials assures high quality built into every product. Unique, proprietary formulations of iron oxide powder and chemical components are subjected to a highly controlled milling process, later to be transferred to a film base and cured in regulated ovens.



75 SERIES VIDEO TAPE

PROMINENT FEATURES

Freedom from Head Clogging

Recorder head clogging and the resulting picture loss can be a disastrous problem in helical scan recording. Clogging during the recording process is undetectable until played back. By then it may be too late since the subject matter may be incapable of regeneration. Memorex 75 series video tape has been specifically developed to prevent this catastrophe from happening. Its extreme binder toughness, its built-in lubrication, and its self-cleaning properties combine to provide highest assurance to the user that record and playback will be reliably achieved.

Extended Head Life

Because of the extremely smooth and low abrasive characteristics of type 75 series video tape, recorder head life has been increased considerably. The results of extensive usage in the field under a wide variety of conditions clearly indicates head life well in excess of 500 hours on the average.

Low Dropout Incidence

Memorex extensive experience in the manufacture of broadcast-quality video tape, dropout-free computer tape, and high-resolution instrumentation tape has made possible the production of helical scan video tape with an extremely low dropout rate. Memorex 75 series tape consistently delivers clean pictures unmarred by dropouts. This is true for both the regular coated and thin coated, long play tapes. Tight production and quality assurance controls assure delivery of low dropout tape. Toughness of binder, and conductive coating assure many low dropout passes over the tape's life, even in less than ideal laboratory environments.

Longer Tape Life

Because of the durability and toughness of the 75 series binder system, a recording may be played back several hundred times without significant degradation. The binder is also stable and the tape may be stored for years without loss of quality.

Superior Still-Framing Capability

Superior still-framing capability is a result of binder formulation, surface treatment, and built-in lubrication. Memorex 75 series video tape has been designed to withstand the abuse and punishment it receives during still-frame operation.

High Signal-to-Noise Ratio

High signal-to-noise ratio provides clean, crisp picture quality on playback. The high signal-to-noise ratio is achieved



The attached sample is representative of Memorex 75 series video tape. The toughness, durability, cleanliness, and low abrasive characteristics of this tape made slant track recording practical. Memorex was the first company in the United States to successfully produce this extremely critical product for helical scan recording in closed-circuit and broadcast applications.

through a combination of oxide formulation and surface treatment. The net result is high output and low noise even for recorders with high frequency, short wavelength RF systems.

Conductive Coating

The attraction of dropout dust inducing particles has been minimized through the use of an electrically conductive coating. Hence, tape runs cleaner, longer, and maintains high-quality playback for a longer period of time.

Full Audio Performance

The coating thickness and magnetic properties are optimized for high fidelity recording and playback. Memorex slitting accuracy also ensures audio stability because of the elimination of wavy and scalloped edges.

Wide Variety of Configurations Available

Memorex maintains a stock and has standard configurations available optimized for the various makes and models of machines available to the user. The 75 series video tape encompasses a range of formulations, coating thicknesses, tape widths, reels, packages, and lengths required in the slant track video market. Configurations available are separately described and specified. Contact your nearest Memorex sales office for complete information.

MEMOREX

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Main research, development and manufacturing facilities for Memorex magnetic tape products are located in Santa Clara, California.

