



# Tape Recycling & Rejuvenation System for Betacam SP, SX and Digital Betacam

## **TapeChek**<sup>®</sup>

### **Pro Line 4100 Cleaner-Evaluator-Eraser**

- **Saves Money**
- **Reduces Dropouts**
- **Pays for Itself Fast**



From **RTI**

Millions of videotapes are being cleaned, evaluated and recycled on RTI TapeChek equipment by professionals like you. Why? Because there are times when it is simply a waste of money to use new tape. In fact, if you are discarding just 2 or 3 Betacam tapes per week, you may be throwing away the cost of this new TapeChek machine. Payback from Betacam SP and Digital Betacam tapes is even faster.

The TapeChek Pro Line 4100 is designed to meet the needs of broadcasters and other professional Betacam users. Because the Pro Line 4100 will accommodate both the standard and large sizes, all cassettes for EFP, ENG, LMS and production VTRs can be recycled with one unit.

**RECYCLES.** Tape cleaning module utilizes three vacuum-assisted wiping tissues that effectively remove loose oxide and dirt from the tape surface before and after polishing. Precision dual sapphire burnishing system polishes the recording surface, eliminates "snowplow" debris, and improves head-to-tape contact in your recorders. Temporary dropouts are virtually eliminated.

**ERASES.** Optional erase module provides complete full width erasure of recorded signal from Betacam oxide, Betacam SP and Digital Betacam tapes. Erases better than most bulk degaussers—cleans and evaluates too!

**FINDS TAPE DAMAGE.** Accurate CCD Line Array Detector incorporates over 20 times more sensors than conventional detectors. Scans the tape edge to edge at over 3000 times per second. Reliably locates edge damage, wrinkles and creases. Evaluates blank or recorded tapes without affecting recorded material. Tape information display provides four reports of defect data and tape length, plus machine diagnostics and setup information. Optional built-in printer provides comprehensive report of tape condition and locations of physical tape damage.

**FAST.** Operates at 25 times NTSC speed. Cleans, evaluates, erases and rewinds a one hour Betacam cassette in as little as 2½ minutes; a 20 minute cassette in less than one minute.

**FULLY AUTOMATIC.** Insert either size cassette into motorized loader. TapeChek automatically senses cassette size, hub size, metal or oxide tape. Automatic cleaning-evaluation cycle starts at the push of a button. "Smart" microprocessor electronics control all loading and transport functions for safe, gentle tape handling. Needs no operator attention from start to finish.

**PAYS FOR ITSELF!** The cost-effective Pro Line 4100 can save you thousands of dollars by recycling expensive professional Betacam format tapes.

# TapeChek

## Pro Line 4100 Cleaner-Evaluator-Eraser for Betacam SP, SX and Digital Betacam



### SPECIFICATIONS:

**Cassette Sizes:** Automatically senses standard or large size Betacam SP, Betacam SX, Betacam and Digital Betacam cassettes.

**Tape Speed:** 120 ips. 25 times NTSC speed, 30 times PAL speed.

**Comprehensive Tape Information Display:** Back-lighted liquid crystal readout displays the following:

1. total damage count and tape length in minutes/seconds
2. number of damaged sections in each 5, 10 or 15-minute tape segment
3. number of damaged sections in top, middle and bottom areas of the tape
4. damage location report of tape area (top, middle, bottom) by exact location (minutes/seconds)

**Automatic Tape Grading:** tape grade indicated by "A-B-C" condition LEDs.

**Detection System:** CCD based defect detection system. Multiple detector elements scan the tape virtually edge to edge at over 3000 times per second. Reliably locates transverse wrinkles, creases, edge damage and longitudinal creases. Does not affect recorded signals.

**Cleaning System:** Three vacuum-assisted cleaning modules (two on the recording side and one on the back side) use specially formulated wiping tissues that safely remove loose oxide particles and dust from tape surface before and after polishing.

**Burnishing System:** Dual precision sapphire burnishing posts polish the tape's recording surface in both forward and rewind directions.

**Electronics:** All solid-state circuitry, including 8085 microprocessor based "smart" transport control system. Electronic sensors continuously monitor tape speed and tension to ensure gentle tape handling.

**Diagnostics:** Monitors status of tape transport and detection systems and provides front panel diagnostic displays.

**Construction:** Modular design and construction with plug-in components and circuit boards affords easy access and service. May be mounted on a 19" rack shelf.

### Operator Controls:

**AUTO**—provides automatic unattended evaluation, cleaning and rewinding of tape.

**FORWARD**—runs tape fast forward. Tape automatically stops at end.

**REWIND**—rewinds tape to beginning. TapeChek drive system provides proper tension and gentle handling.

**STOP**—stops tape motion in the machine.

**EJECT**—initiates cassette ejection cycle.

**ERASE**—selects optional erase function.

**RESET**—clears all data from digital memory.

**DISPLAY**—selects from four tape condition display modes and machine status messages.

**NUMERIC KEYPAD**—permits numeric entry of data such as date and tape number.

**TAPE #**—permits numeric entry of tape number that appears on printed report.

**DATE**—allows the day, month and year to be printed on reports.

**PRINT**—activates optional built-in printer for hard copy reports.

**SET UP**—facilitates diagnostics and entry of "A-B-C" condition values.

**Printer Option:** Built-in quiet, fast printer, controlled by microprocessor software, provides hard copy reports, prints defect counts and graphically shows defect locations.

**Erase Options:** Provide complete erasure of all recorded signals on Betacam oxide and/or Betacam SP metal tapes, also Digital Betacam. Safety interlock sequence prevents accidental erasure. Machine senses erase tabs on cassettes.

**Power:** 117 VAC, 4 A., 60 Hz standard (100/220/240 VAC 50 Hz or 60 Hz optional).

**Dimensions:** 13"H x 17½"W x 21¾"D (33 x 44.5 x 55.2 cm).

**Net Wt.:** 75 lbs (34 Kg). **Shpg. Wt.:** 85 lbs (39 Kg).

**Model 4100,** catalog number 10540

**Export Model,** catalog number 10540X

**Digital Betacam Option,** catalog number 10458

**Printer Option,** catalog number 10542

**Betacam Oxide Tape Erase Option,** catalog number 10543

**Betacam Metal Tape Erase Option,** catalog number 10544

Made in the U.S.A.

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