

# TapeChek 6120 Evaluator/Cleaner

The Fast, Cost-Efficient Way to Maximize Quality Performance  
From Your 1" Videotape



TapeChek 6120 quickly separates good tape from bad! Eliminates guesswork when selecting the best tape to use.

All videotape is susceptible to dropouts, loose oxide, dirt, wrinkles and edge damage. Finding these problems before its too late is just one way the TapeChek 6120 can help you.

TapeChek is the most effective way to evaluate, clean and condition your tapes — saving tape, time, money and maybe even your reputation!

## *Provides FIVE Important Quality Control Functions*

- Evaluates videotape for magnetic dropouts.
- Inspects for physical tape damage.
- Polishes tape for improved signal-to-noise ratio.
- Cleans tape to reduce temporary dropouts caused by loose oxide and dirt.
- Conditions and exercises tape for improved performance.

## *PLUS!*

Good tape reduces wear on video heads and keeps VTR's cleaner.



Northbrook, IL, 60062, USA  
Phone: +1-224-282-8985



Sekocin Stary, (Warsaw), 05090, Poland  
Phone: +48-662-042-079

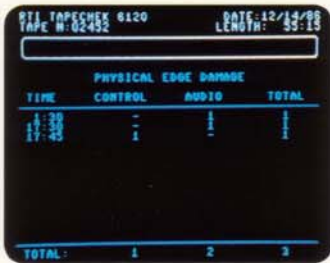
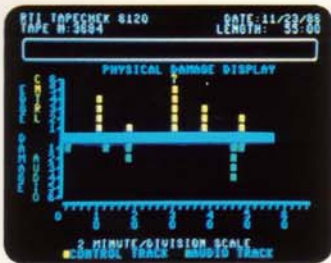
E-mail: [info@mmtfilm.com](mailto:info@mmtfilm.com)

# TapeChek 6120 Evaluator/Cleaner

## The Ultimate in Professional 1" Tape Care

The TapeChek 6120 provides tape evaluation with lab standard accuracy and repeatability. High resolution multi-track dropout detection and "Micro-Pulse" detection electronics test the tape 8 million times per second. You can be confident in the TapeChek evaluation...and confident in the tapes you have inspected.

- "Micro-Pulse™" high-frequency magnetic dropout detection — provides accurate tape analysis
- Opto-electronic detection — permits inspection of pre-recorded tapes for physical damage without erasure
- Dual sapphire tape burnishers — reduce dropouts and improve S/N ratio
- Dual vacuum-assisted cleaning tissues remove dust, dirt and loose oxide from both sides of tape — reduce temporary dropouts by up to 90%
- Permits recycling of most "used" tapes — machine will pay for itself fast
- Color CRT graphically displays magnetic and physical defect information — indicates what's wrong... and where!
- Six user-selectable CRT graphs let you thoroughly analyze dropout and physical defect information
- Hard copy printer provides detailed reports of videotape condition with date and tape identification number
- Display threshold for dropout analysis is adjustable to meet individual quality standards
- Computer controlled transport system maintains precise tension for safe, gentle tape handling
- High Speed — operates at over 20 times normal play speed
- Fully automatic — virtually no operator attention is required
- "User friendly operation" — pushbutton control makes it easy for anyone to use
- Quickly pays for itself by reducing tape failures, improving quality and re-cycling tapes of known quality.

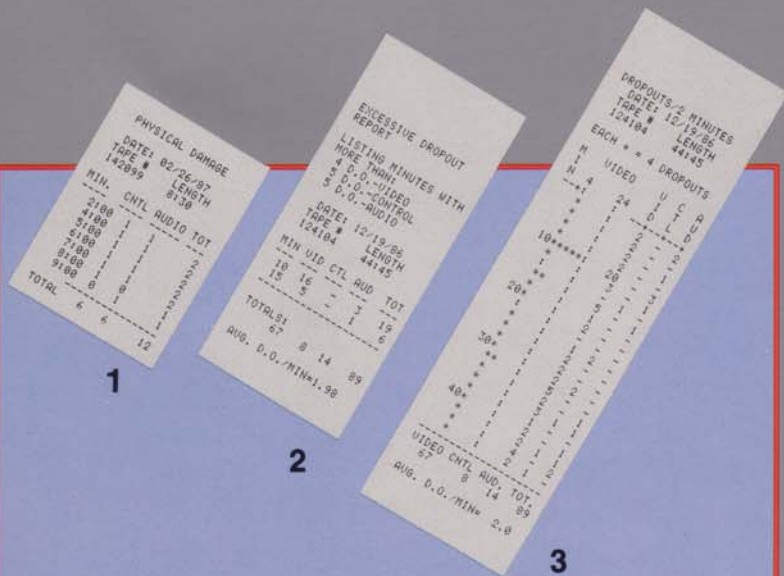


Graphically depicts location and quantity of physical defects. Ideal for inspecting pre-recorded tapes.

Clearly identifies locations and number of physical tape defects in each 15 second interval of tape.

## When Tape Quality Counts, Check Your Tapes Before...

- Studio And Post-Production Recording Sessions
- Program Playback On-The-Air
- Satellite Recording For Delayed Broadcast
- Recording Or Playing Duplication Masters
- Recycling Used Tapes
- All Other Important 1" Tape Applications



## Comprehensive Printed Reports

Hard copy printouts provide graphs and reports of tape condition. Date and tape number identify each report and facilitate better management of your tape collection.

1. Reports all minutes that contain physical damage. Complete with tape I.D., date and physical defect totals.
2. Hard copy "IAR" — Instant Accept/Reject Report. Lists all minutes that exceeded the "maximum allowable dropout" threshold values.
3. Minute-by-minute report shows number of magnetic dropouts in video, control and audio areas.

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## SPECIFICATIONS

### Tape Transport

- Tape Speed: 200 IPS  
Reel Size: Up to 14", NAB standard hubs  
Format: SMPTE type "C" standard. Type "B" and "C" optional.  
Tape Guidance: Precision (2  $\mu$  inch finish) ball bearing rollers, no stationary guides touch tape oxide  
Transport System: Two motor drive; microprocessor controlled speed and tension; automatic end-of-tape shutoff.  
Reel Sensing: High frequency, pulsed infra-red beam system for Auto-reverse and End-Of-Reel functions  
Reel Braking: Servo motor controlled deceleration with supplemental electro-magnetic disc brake system.  
Controls: Numeric keypad entry. Push-button transport and display controls. Coded Evaluate/Erase entry.

### Magnetic Defect Detection

- Recording: Full width long life ferrite record head, precise recording at 400 K Hz.  
Sensing: 20 track ferrite playback head stack, high resolution .025" track width. Detects relative dropouts corresponding to video dropouts of 5  $\mu$  sec at 16 dB or greater.  
Displays: CRT color graphic display of relative dropout counts and locations in 6 scales from 15 seconds per division to 8 minutes per division, including display SCROLL function. Tabular listing of dropout counts per minute of tape. Also displays IAR (Instant Accept/Reject) Graphic, average dropout per minute and total dropouts in tape.  
Printouts: 1) Minute-by-minute dropout report for entire evaluation.  
2) Excessive dropout report for minutes exceeding dropout thresholds.

- Erase: High frequency erase leaves no perceptible trace of video or audio. Long-life ferrite head. Interlock prevents accidental erasure.

### Physical Damage Detection

- Sensing System: Opto-electronic detection for physical damage in audio and control areas. Automatically compensates for different tape stocks. Does not alter signals on tape when used independently from magnetic detection.  
Display: Color graphic CRT display plus tabular defect location display.  
Printout: Tabular report of defect counts and locations in the tape.

### Tape Cleaning/Conditioning

- Burnishers: Dual precision sapphire burnishing posts polish tape oxide before and after evaluation. Burnishers last over 7000 tape hours.  
Tissues: "Twin" tissue modules clean both sides of tape before and after evaluation. Vacuum system locks debris into cleaning tissues. Automatic motorized advance. Solid state end-of-tissue sensing system alerts operator to replace tissues.  
Electronics: All solid state with 4 microprocessors for transport control, defect detection and CRT data display.

### General

- Cabinet: All-metal cabinetry.  
Machine: 42"H x 25"W x 20"D.  
Storage Base: 26"H x 25"W x 20"D.  
Power Requirements: 117 VAC, 60 Hz, 5 Amps standard.  
220/240 VAC, 50/60 Hz, optional.

Engineered and manufactured in U.S.A.



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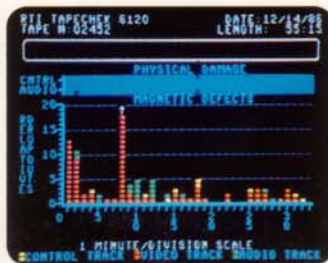
E-mail: [info@mmtfilm.com](mailto:info@mmtfilm.com)

# TapeChek 6120 Evaluator/Cleaner

*Easy To Read  
Color Coded  
CRT Displays*



Simple, easy to read IAR (Instant Accept/Reject) Display. Grades tape "good or bad" according to user adjustable thresholds.



Color coded bar graphs present magnetic and physical evaluation results in easy to read format. Six different time scales can be selected.

RTI TAPECHEK 6120 DATE: 12/14/88  
TAPE # 02452 LENGTH: 33:15

DETAIL DROPOUT DATA

MAX D.O. COUNT AT 8:00 MINUTES = 2  
AVERAGE D.O. PER MINUTE = 3.61  
7 MINUTES EXCEEDING D.O. THRESHOLDS

TIME	VIDEO	CONTROL	AUDIO	TOTAL
1:00	12	1	1	14
2:00	1	1	1	3
3:00	1	1	1	3
4:00	1	1	1	3
5:00	1	1	1	3
6:00	1	1	1	3
7:00	1	1	1	3
8:00	1	1	1	3
9:00	1	1	1	3
10:00	1	1	1	3
11:00	1	1	1	3
12:00	1	1	1	3
13:00	1	1	1	3
14:00	1	1	1	3
15:00	1	1	1	3
16:00	1	1	1	3
17:00	1	1	1	3
18:00	1	1	1	3
19:00	1	1	1	3
20:00	1	1	1	3
21:00	1	1	1	3
22:00	1	1	1	3
23:00	1	1	1	3
24:00	1	1	1	3
25:00	1	1	1	3
26:00	1	1	1	3
27:00	1	1	1	3
28:00	1	1	1	3
29:00	1	1	1	3
30:00	1	1	1	3
31:00	1	1	1	3
32:00	1	1	1	3
33:00	1	1	1	3
TOTAL	127	32	41	200

Tabulates dropout counts for every minute of the tape. Provides actual counts for critical detailed analysis.



Numeric data entry keypad

Integral report printer

Data control switches select 5 different displays, 3 reports, 6 time interval scales, entry of date and tape ID number.

Convenient pushbutton controls for transport functions and evaluation selection

Precision sapphire burnishers polish tape oxide

Automatically advancing cleaning tissues with vacuum system

Micro-pulse magnetic dropout detection and physical defect detection station.

Tape tension and speed monitoring systems

Invisible Infra-red beams measure amount of tape on the reels

Simple tape threading and operation make tape evaluation and cleaning fast and efficient. Virtually no operator attention is required.