**MB51** Magnetic and Optical Sound Recorder/Reproducer for 16 / 17.5 / 35mm film

Now with Laser Shrinkage Detector option

Provides Sprocketless ability to safely play film with up to 4% shrinkage and perf damage

New Vinegar Head Assemblies for curly and wavy mag film

The MWA MB 51 has earned itself a reputation worldwide due to an extremely high build quality, audio performance, reliability and longevity.

These facts make it an ideal choice for facilities where the processing, replay, preservation and transfer of Archive or damaged Magnetic and Optical material is undertaken, or where quality control of Analog or Digital Optical soundtracks is necessary.

The MB51 is supplied in the following formats:

- Single format 16mm Magnetic Film
- Combined 16mm & 17.5mm Magnetic Film
- Combined 16mm, 17.5mm & 35mm Magnetic Film
- Single format 35mm Magnetic Film

Operational speeds are:

- 24 & 25 Frames
- 48 & 96 Frames
- 750 Frames synchronous speed for 16mm
- 300 Frames synchronous speed for 17.5 & 35mm

Features:

- Short acceleration times
- Simple film lacing
- Gentle film treatment insensitive to splices
- Low wow and flutter levels
- Sync to Pilotone or Bi-phase
- Easy coupling to Audio, Video or Film machines
- Extremely low maintenance

Options include:

- All magnetic head configurations including:
  - 16mm edge, center, 2-track w/cue, mag-striped original and print film,
  - 35mm 1, 3, 4, 6 track mag film, 1-track and 4-track mag-striped release prints.
- Red or white LED Analog optical readers for reproduction of 35mm Stereo or Mono Optical and/or 16mm Mono Optical
- Dolby Dolby SR*D, DTS and SDDS digital audio readers optional
- Special 16 & 35mm head configurations for the replay of “Vinegar Syndrome” material (See back)
**Operational modes**

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<th>MAINS, PILOTTONE, SYNC, SHUTTLE, LACING</th>
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**Control signal PILOTTONE**

Sine wave / square wave U 50µs U 1 V or pulses T 50µs U 3 V 45Hz ... 50Hz ... 55Hz ... (55Hz ... 60Hz ... 65Hz)

**Control signal SYNC**

Biphase square wave signal in conformity with DIN 15 573 part 2 or 3 phase x 1V sine wave (SYNTRONIC) 0Hz – 50Hz – 15000Hz, VIDEO SYNC + WORDCLOCK

**Film speed**

24 and 30fps for 60Hz units. 25 fps and 24 fps for 50Hz units

**Maximum Film Speeds**

16 mm max. 750 frames/second
35 mm max. 300 frames/second

**Time to attain stabilized sound**

<0.9 seconds

**Wow and flutter**

± 0.06% weighted to DIN 45 507

**Power Supply**

110 or 127VAC 60Hz or 220-230VAC 50Hz, specified at time of order

**Current consumption**

Approx. 440VA at 220V 50Hz

**Film capacity**

1970feet/600m magnetic film (PE)

**Rewind time**

3937 feet/1200m magnetic film 35mm (PE) with reduced acceleration

**Height/Width/Depth**

H 71" (74"w/Baseplate x W 17.71" x D 16.25" Metric: H 180cm (188cm w baseplate) x W 45cm X 41cm D

**Weight**

Approx. 220 pounds/95kg

All technical data corresponding to DIN 15 573 part 1. Heads according to DIN 15 910.

See separate data sheets for 16mm and 35mm magnetic head assemblies, DIN/ISO track standards and track locations