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)

MB51 Main Specifications

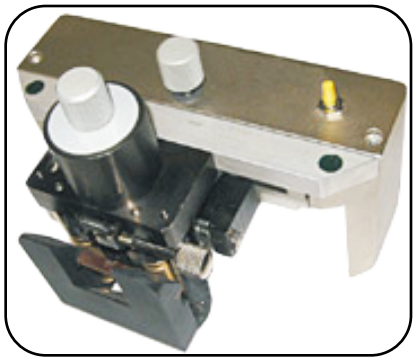
Operational modes	MAINS, PILOTTONE, SYNC, SHUTTLE, LACING
Control signal PILOTTONE	Sine wave / square wave U 50µs U 1 V or pulses T 50µs U 3 V 45Hz ... 50Hz ... 55Hz ... (55Hz ... 60Hz ... 65Hz)
Control signal SYNC	Biphase square wave signal in conformity with DIN 15 573 part 2 or 3 phase x 1V sine wave (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

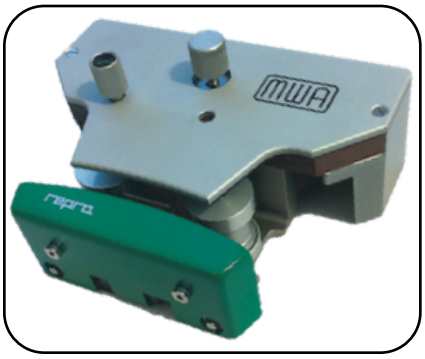
All technical data corresponding to DIN 15 573 part 1. Heads according to DIN 15 910.
See separate data sheets for 16mm and 35mm magnetic head assemblies, DIN/ISO track standards and track locations

Optical Replay Head Assembly 35mm White Light with track position adjustment knob at front (Shown)

Focus adjustment available

Available in 16mm and 35mm, White Light and Red LED for Cyan/Magenta prints



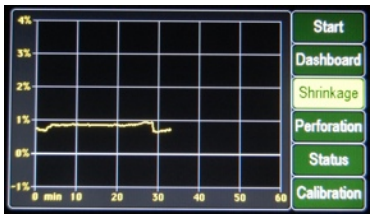


Magnetic Replay Head Assembly for Vinegar Syndrome Material

Available in 16mm (shown) and 35mm

Standard Non-VS Assembly also Available

Laser Shrinkage Detector (LSD) **replaces the non-driven sprocket in the MB51, allowing easy playback of shrunken film , correcting for wandering lip-sync automatically.**



The LSD panel provides easy touch-screen operation and produces graphic displays of shrinkage, perf damage and more on per-perforation basis.

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