

## MB51

### Multi Format Magnetic Film Recorder/Player

The MWA **MB51** has deservedly earned itself a reputation worldwide due to its' extremely high build quality, performance, reliability and longevity.

These facts make it an ideal choice for facilities where the processing, replay, preservation and transfer of Archive (also damaged) Magnetic material is undertaken, or where quality control of Analogue/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 Pilot tone or Bi-phase
- Easy coupling to Audio, Video or Film machines
- Extremely low maintenance

Options include,

All magnetic head configurations

White light or red LED analogue optical readers

Dolby SRD Optical Reader

Special 16 & 35mm head configurations for the replay of "Vinegar Syndrome" material.



## MB51 Main Specifications

Height/Width/Depth	180cm, with plate 188cm / 45cm / 41cm
Weight	approx. 95kg
Operational modes	MAINS, PILOTTONE, SYNC, SHUTTLE, LACING
Current consumption	approx. 2A
Control signal PILOTTONE	Sine wave / square wave $T > 50\mu s$ $U > 1 V$ or pulses $T > 50\mu s$ $U > 3 V$ 45Hz ... 50Hz ... 55Hz ... (55Hz ... 60Hz ... 65Hz)
Control signal SYNC	Biphase square wave signal in conformity with DIN 15 573 part 2 or 3 x 1V sine wave (SYNTRONIC) 0Hz – 50Hz – 15000Hz, optional VIDEO SYNC and WORDCLOCK
Film speed	25 frames/s (alternatively 24 and 25 frames/s) 16 mm max. 750 frames/s 35 mm max. 300 frames/s
Time to attain stabilized sound	<0,9s
Film capacity	600m magnetic film (PE) 1200m magnetic film 35mm (PE) with reduced acceleration 1200m magnetic film 16/17.5mm (PE) on film cores according to DIN 15 638 (magnetic film 16mm also on spools according to DIN 15 621)
Rewind time	300 m 1min 600m 2min
Wow and flutter weighted to DIN 45 507	$\pm 0,06\%$

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



*left:  
Optical replay  
head assembly*

*right:  
Magnetic replay head assembly  
for vinegar Syndrome material*