



Dynamic Disc Balance Analyzer



Description

The Clover Systems Dynamic Balance Analyzer is a tool for measuring imbalance of DVD, CD, and Blu-Ray discs. Conformance to Blu-Ray, DVD and Red / Yellow / Orange Book standards can be verified with this system.

The advent of high-speed CD-ROM and DVD-ROM drives makes disc unbalance an important issue. The forces generated increase with the square of the rotational rate, so at high speeds, the forces are extreme. These forces and resultant vibration can adversely affect disc performance and drive life.

High-speed drives will reduce their read speed if they have trouble reading the disc. One of the

causes of speed reduction is vibration caused by disc unbalance. Only a properly balanced disc will provide the maximum throughput these drives are capable of.

Disc imbalance can be caused by thickness variation of the substrate, lacquer coating, CD-R dye coating, or DVD bonding layer as well as asymmetrical label design and disc shape and center hole placement.

Features

- Operates stand-alone or interfaces to PC
- Displays in g-mm, g-m, or Newtons
- Pass / Fail indicator
- User defined limits
- Indicates direction of imbalance
- Easy to operate
- Compact desktop form factor
- Tests disc in 10 seconds
- Includes two Calibration Discs
- Tests DVD halves & glass discs
- Can be integrated into molding line & fully automated

Applications

- DVD bonding process control
- Molding optimization
- Label art optimization
- Shape discs
- Optimize performance of CD-ROM, DVD-ROM, and BD-ROM

Specifications

- Resolution = 0.1 g-mm (4×10^{-5} Newton)
- Range = 0.0 - 17.0 g-mm (0 - 0.07 N)
- Accuracy / Repeatability = ± 0.2 g-mm
- Rotational speed = 1800 RPM
- Angular accuracy = ± 3 degrees
- AC voltage = 115 / 230 VAC, 50 / 60 Hz
- Power consumption = 40 W
- Dimensions = 17" x 13" x 4.75"
- Weight = 20 lbs.

----- Specifications are subject to change without notice -----



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