DaTABANK DVD-ROM Disc & Stamper Analyzer

- DVD Disc (single & dual layer) analysis at 4X and 1X
- DVD Stamper analysis at 1X
- Performs all types of measurements: HF, tracking, time-based, mechanical and digital.
- Easy format upgrade for driveCubes
- driveCube module fits all DaTABANKs
- User interface consistent with BD driveCubes
- Spec-conform drive and pick-up
- Ready for in-line integration
- Double-check function at reference speed
- Split test with any other DaTABANK™ DVD Analyzer
- According to the DVD Forum specification

The DaTABANK™ driveCube is at the heart of the DaTABANK™ concept, including the standalone DaTABANK™ station, with a compact design that allows integration into any line for in-line electrical testing. A DaTABANK™ DVD Analyzer consists of a DVD driveCube analyzer with various optional measurement boards that enable users to measure a larger range of signals.

Two versions of the DVD driveCube are available: the DVD Analyzer 1X 4X (DVD A 4X) and the DVD Analyzer Stamper 1X (DVD A S1X). The DVD A 4X is used to measure DVD pre-recorded discs, single and dual layer at 4X and reference speed 1X. The DVD A S1X is a modified version of the DVD A 4X to additionally enable stamper measurements with its unique adapter system. The DVD A S1X is limited to 1X for stamper measurements but is enabled to 4X for disc measurements. Both driveCubes can also perform measurements on recorded recordable discs.

These analyzers are capable of measuring digital and mechanical parameters and, combined with a MMB (Main Measuring Board), they can measure all HF-related and servo and tracking parameters. An additional jitter board allows for measurement of time-based parameters. These boards are located in the DaTABANK™'s specially ventilated cabinet, and, with the DaTABANK™ 'play & go' philosophy, measurements can be started at the touch of a button. Results are more immediate, with no need for a start-up sequence and, because of the user-friendly DaTAVIEW™ interface, results are also easier to view and to interpret. DaTAVIEW™ allows remote access, monitoring, control, and servicing of the driveCube, the boards and the PCs over the Internet or an intranet, with programmable buttons that also allow testing to start remotely. The DVD driveCubes are calibrated using an automated method based on the reference values of the Philips and DaTARIUS reference discs.

The user interface is consistent with existing DaTABANK DaTAVIEW, Quality Web and Long Pit/Land analyzer displays. These flexible, user-friendly, and configurable displays deliver the required data in fast and easy to assimilate formats. DaTABANK can be used with a mix of BD and DVD driveCubes to offer comprehensive format analysis.

DaTARIUS
the quality people

Measured parameters (Features available with DaTAVIEW release 2.0, MMB 2.0 and jitter board installed)

The DaTABANK™ DVD A 4X and DVD A S1X can also measure a specific set of parameters on recorded DVDR and DVDRW(on request) media.

			DVD A 4X	DVD A S1X
digital	PIE	Parity Inner Error	☑	☑
	PIF	Parity Inner Failure	☑	☑
	PISum8	PIE sum 8	☑	☑
	POF	Parity Outer Failure	☑	☑
HF	DPDAmp	Differential Phase Tracking	☑	☑
	DPDAsy	Differential Phase Asymmetry	☑	☑
	HFDO	HF Drop Out	☑	☑
	HFLow	HF Low	☑	☑
	HF-SNAP	HF Snapshot	☑	☑
	I14H	I14H	☑	☑
	I14Hmax	I14H max per block	☑	☑
	I14Hmin	I14H min per block	☑	☑
	I14Hrv	I14H variation per revolution	☑	☑
	I14L	I14 Low	☑	☑
	I14Lmax	I14L max per block	☑	☑
	I14Lmin	I14L min per block	☑	☑
	I14LVar	I Bottom Variation	☑	☑
	I14Var	HF Variations	☑	☑
	I3H	I3 High	☑	☑
	I3L	I3 Low	☑	☑
	LongLand	Long Land	☑	☑
	LongPit	Long Pit	☑	☑
	PP	Push-Pull	☑	☑
	PPmin	Push-Pull minimum	☑	☑
	PPmax	Push-Pull maximum	☑	☑
	PPdv	Push Pull disc variation	☑	☑
	RPP	Radial Push Pull	☑	☑
	TCS	Track Crossing Signal	☑	☑
	TPP	Tangential Push Pull	☑	☑
	ASY	Asymmetry	☑	☑
	I14D	I14H difference between layer	☑	☑
	I14Hdv	I14 variation per disc	☑	☑
	I14Hdvf	I14 filtered variation per disc	☑	☑
	I14M	I14 Modulation	☑	☑
	I3M	I3 Modulation	☑	☑
	RES	Resolution	☑	☑
	SL	Slicing Level	☑	☑

			DVD A 4X	DVD A S1X
mechanical	RRO	Radial run out	☑	☑
	SVY	Scanning Velocity	☑	☑
	TRP	Track Pitch	☑	☑
	IDDA	Inner Diameter of Data Area	☑	☑
	IDIA	Inner Diameter of Information Area	☑	☑
	ODDA	Outer Diameter of Data Area	☑	☑
	ODIA	Outer Diameter of Information Area	☑	☑
servo	FE	Focus Error	☑	☑
	RADIAL1	Radial Error	☑	☑
	RADIAL2	Radial Noise	☑	☑
	FO	Focus Offset	☑	☑
	TC	Tilt Compensation	☑	☑
jitter	JC	Jitter Combined (data to clock jitter)	☑	☑
	JCHS	Jitter Combines High Speed	☑	☑
	JF	Jitter falling	☑	☑
	JR	Jitter rising	☑	☑

Technical specifications

Environment conditions

To broaden environmental operating conditions DaTABANK has an advance filtered airflow system and each driveCube has its own temperature monitoring

Recommended environmental conditions:

Temperature: 23°C+/-2°C

Humidity 40% - 60% relative humidity, condensation free

Electrical and mechanical specification

DVD drive and pickup head:

Wavelength: 650 +/- 5nm

Numerical Aperture:0.60+/-0.01

Size: 24cm x 24cm x 24cm

Weight: 6Kg

Specifications subject to change without notice

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