DaTABANK BD-ROM Disc & Stamper Analyzer

- BD Stamper and Disc (single & dual layer) analysis at 1X
- Performs all types of measurements: HF, tracking, Jitter, mechanical and digital.
- Special features such as ROM Mark Analysis*, BCA Analysis, Burst Error Count/Length, Random Symbol Error Rate and Symbol Error Rate
- Easy format upgrade for driveCubes
- driveCube module fits all DaTABANKs
- User interface consistent with DVD driveCubes
- DaTAVIEW, Quality Web
- Spec-conform drive and pick-up
- Compact patented design
- Ready for in-line integration

The new DaTARIUS BD Analyzers driveCube adds Blu-ray Disc analysis to the flagship DaTABANK system. In keeping with the DaTARIUS 'prepared for the future' philosophy, the BD Analyzer driveCubes can be specified for new DaTABANK systems or hot-swapped into existing DaTABANKs, thus extending their capability to include BD.

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

The BD driveCube measurement portfolio includes HF, jitter, digital, servo and mechanical. These are essential for Blu-ray Disc producers and format developers to assess the quality of their Blu-ray Disc product. The BD driveCubes are built around the DaTARIUS universal driveCube platform with adherence to format requirements that results in a high degree of repeatability, reproducibility and reliability of measurements.

The user interface is consistent with existing DaTABANK DaTAVIEW, Quality Web 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.

* option

M-25 / 06

DaTARIUS
the quality people

Measured parameters (Features available with DaTAVIEW release 2.0, MMB 2.0, pit O'resc pc and jitter board installed)

The DaTABANK™ BD A 1X and BD A S1X can also measure a specific set of parameters on recorded) BD-R and BD-RE media.

			BD A 1X	BD A S1X
digital	BEC	Burst Errors Counter	☑	☑
	BEL	Burst Errors Length	☑	☑
	RSER	Random Symbol Error Rate	☑	☑
	RSERk	Random Symbol Error Rate blocked over 1k	☑	☑
	SER	Symbol Error Rate	☑	☑
	SERk	Symbol Error Rate blocked over 1k	☑	☑
HF	DPDAmp	Differential Phase Tracking	☑	☑
	DPDAsy	Differential Phase Asymmetry	☑	☑
	RPP	Radial Push Pull	☑	☑
	I2H	I2 High	☑	☑
	I2L	I2 Low	☑	☑
	I3H	I3 High	☑	☑
	I3L	I3 Low	☑	☑
	I8H	I8 High	☑	☑
	I8Hmax	I8H max per block	☑	☑
	I8Hmin	I8H min per block	☑	☑
	I8Hrv	I8H variation per revolution	☑	☑
	I8L	I8 Low	☑	☑
	Asym	Asymmetry	☑	☑
	I2/I8 eq	2T Peak to Peak Modulation equalized	☑	☑
	I3/I8	3T Peak to Peak Modulation	☑	☑
	I3M	I3 Modulation	☑	☑
	I8/I8H	8T Peak to Peak Modulation	☑	☑
	I8Hdv	I8H variation per disc	☑	☑
	I8Hdvf	I8H variation per disc filtered	☑	☑
	R8H	Reflectivity In Recorded Rewriteable Disc Areas	☑	☑
	RxI2	Reflectivity I2 Modulation product	☑	☑
	RxM	Reflectivity Modulation Product RxM	☑	☑
mechanical	SVY	Scanning Velocity	☑	☑
	TRP	Track Pitch	☑	☑
	RRO	Radial run out	☑	☑
	IDDA	Inner Diameter of Data Area	☑	☑
	ODDA	Outer Diameter of Data Area	☑	☑
	IDIA	Inner Diameter of Information Area	☑	☑
	ODIA	Outer Diameter of Information Area	☑	☑
	SA	Spherical Aberration	☑	☑
	TO	Tracking Offset	☑	☑
servo & tracking	FE1	Focus Error	☑	☑
	FE2	Focus Error Noise	☑	☑
	FO	Focus Offset	☑	☑
	TC	Tilt Compensation	☑	☑
	RADIAL1	Radial Error	☑	☑
	RADIAL2	Radial Noise	☑	☑
jitter	JFCo	Jitter Falling with Conventional Equalizer	☑	☑
	JFLi	Jitter Falling with Limit Equalizer	☑	☑
	JFLiE2T	Jitter Falling with Limit Equalizer and Excluding 2T	☑	☑
	JRCo	Jitter Rising with Conventional Equalizer	☑	☑
	JRLi	Jitter Rising with Limit Equalizer	☑	☑
	JRLiE2T	Jitter Rising with Limit Equalizer and Excluding 2T	☑	☑

[2] only for recorded disc and pre-recorded disc

Analyzer driveCube

The BD driveCube delivers digital and mechanical data specified, as part of the DaTABANK system. It can be used to measure stampers* and both pre-recorded (ROM) and recorded recordable (R & RE) disc according to relevant specifications.

** only BD A S1X*

Network technologies based

Data exchange between the BD driveCube and the DaTABANK platform is based on standard network technologies. This enables data to be exchanged locally or through a LAN, W-LAN or over the Internet. Networking can be used to transfer analyzer data, software and firmware updates and for remote system control.

Test mode

► Pre-defined and customized funtions: The DaTAVIEW software is installed with standard test sequences, including full test, spot measurement, and quick test. Users can also edit and customize these standard settings to compose a measurement strategy that meets their specific requirements.

► Double-Check: This feature can be selected to perform a re-check, at 1X, on a suspect measurement detected either at 1X or at higher speeds.

► SPLIT TEST: The DaTAVIEW software can combine up to 8 BD Analyzers to further reduce measuring time.

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

BD drive and pickup head:

Wavelength: 405+/- 5nm

Numerical Aperture:0.85+/-0.01

Size: 24cm x 24cm x 24cm

Weight: 6Kg

Specifications subject to change without notice

DaTARIUS
the quality people

DaTARIUS Europe
tel +43 5672 206 0
hotline +43 5672 205 206
fax +43 5672 206 8000
email europe@datarius.com
www.datarius.com

DaTARIUS USA
tel +1 949 462 9211
hotline +1 866 383 8378
fax +1 949 462 9214
email americas@datarius.com
www.datarius.com

DaTARIUS Asia-Pacific
tel +852 2661 9008
hotline +852 2661 8878
fax +852 2661 8408
email asia@datarius.com
www.datarius.com