



DaTABANK DVD±R/±RW*/DL Disc & Stamper Analyzer

- DVD Disc (single & dual layer) analysis at 4X and 1X
- DVD Stamper analysis at 1X
- Double-check function at reference speed
- 'play & go' immediate result philosophy
- According to the DVD Forum specification
- Split test with any other DaTABANK™ DVD Analyzer
- Spec conform drive & pick-up
- Compact patented design
- Automated calibration
- Ready for in-line integration



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

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

The DVD driveCube measurement portfolio includes HF, jitter, digital, servo and mechanical. These are essential for DVD producers and format developers to assess the quality of their DVD product. The HD DVD 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 and Error Mapping 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 HD DVD, BD and DVD driveCubes to offer comprehensive format analysis.

* RW testing capability only on request
**DVDR A S1X only



Measured parameters

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

Before recording

HF	AR	Aperture Ratio	DVD-R(W)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	LPP	Land Pre Pit Signal	DVD-R(W)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PP	Push-Pull	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PPdv	Push Pull disc variation	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PWP	Phase between wobble and Land Pre-Pit	DVD-R(W)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	RG	Reflectivity Groove	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	RGrv	Reflectivity Groove variation per revolution	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	RL	Reflectivity Land	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	RC	Radial Contrast	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	TCS	Track Crossing Signal	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	WCNR	Carrier to Noise Ratio of Wobble	DVD-R(W)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	WSNR	Signal to Noise Ratio of Wobble	DVD+R(W)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	WO	Wobble Amplitude	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	WobBeat	Wobble beat before recording	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	WOFFT	Spectrum of Wobble Signal	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	NWO	Normalized Wobble Signal	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FE	Focus Error	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	IDDA	Inner Diameter of Data Area	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ODDA	Outer Diameter of Data Area	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

DVDR A 4X
DVDR A S1X

After recording

digital	PIE	Parity Inner Error	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PIF	Parity Inner Failure	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PISum8	PIE sum 8	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	POF	Parity Outer Failure	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	AR	Aperture Ratio	DVD-R(W)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	DPDAmp	Differential Phase Tracking	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	DPDAsy	Differential Phase Asymmetry	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I14H	I14H	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I14Hrv	I14H variation per revolution	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I14L	I14 Low	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HF	I14LVar	I Bottom Variation	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I14Var	HF Variations	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I3H	I3 High	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I3L	I3 Low	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	LongLand	Long Land	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	LongPit	Long Pit	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PP	Push-Pull	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PPdv	Push Pull disc variation	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	RPP	Radial Push Pull	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	TCS	Track Crossing Signal	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	TPP	Tangential Push Pull	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	WCNR	Carrier to Noise Ratio of Wobble	DVD-R(W)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	WSNR	Signal to Noise Ratio of Wobble	DVD+R(W)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	ASY	Asymmetry	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I14D	I14H difference between layer	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I14Hdv	I14 variation per disc	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I14Hdvf	I14 filtered variation per disc	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I14M	I14 Modulation	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	I3M	I3 Modulation	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	NWO	Normalized Wobble Signal	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RES	Resolution	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SL	Slicing Level	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
mechanical	RRO	Radial run out	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SVY	Scanning Velocity	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	TRP	Track Pitch	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	IDDA	Inner Diameter of Data Area	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	ODDA	Outer Diameter of Data Area	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
servo	FO	Focus Offset	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	TC	Tilt Compensation	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FE	Focus Error	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
jitter	RADIAL1	Radial Error	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	RADIAL2	Radial Noise	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	JC	Jitter Combined (data to clock jitter)	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	JCHS	Jitter Combines High Speed	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	JF	Jitter falling	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
JR	Jitter rising	Disc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

* only for recorded disc, pre-recorded disc and pre-recorded stamper

Specifications subject to change without notice

DaTABANK, DaTAVIEW & Quality Web are registered trade marks of DaTARIUS GmbH

M-02 / 05

© 2008 DaTARIUS

Analyzer driveCube

The DVD 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 & RW) disc according to relevant specifications.

* only DVDR A S1X

Network technologies based

Data exchange between the DVD 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 functions: 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 DVD 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

DVD drive and pickup head:

- Wavelength: 650 ± 5 nm
- Size 24 x 24 x 24 cm / weight 6kg
- Anti-vibration mechanism



DaTARIUS Europe
tel +43 5672 2010 0
hotline +43 5672 205 200
fax +43 5672 201 8000
email europe@datarius.com
www.datarius.com

DaTARIUS USA
tel +1 949 462 9211
hotline +1 800 383 8378
fax +1 949 462 9214
email america@datarius.com
www.datarius.com

DaTARIUS Asia Pacific
tel +852 2561 2000
hotline +852 2561 8078
fax +852 2561 8400
email asia@datarius.com
www.datarius.com