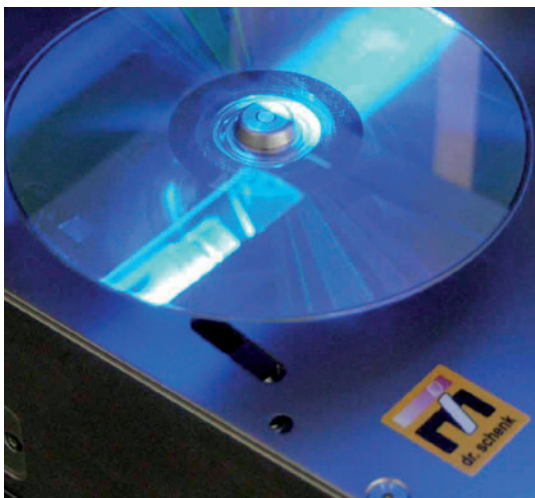


All-Round Measurement for the Physical Properties of Blu-ray Discs



PROMeteus MT-200.blue



Off-Line Solution with Focus on Mechanical and Optical Parameters

With nearly two decades of experience in the design and production of Off-Line measurement systems Dr. Schenk presents the PROMeteus MT-200.blue. As a consequent enhancement to the established PROMeteus family, which is recognized as industry and research standard for more than 15 years, the MT-200.blue specializes on the measurement of physical properties of Blu-ray discs (prerecorded, recordable and rewritable SL and DL). At the same time this all-round system offers broad functionality for quality assurance and production process control during optical disc replication of the red media formats of GEN I and II.

As perfect complement to In-Line inspection, the PROMeteus MT-200.blue tests and evaluates all relevant physical properties and verifies the strict mechanical and optical specifications. Unmatched in efficiency and reliability this system analyzes the whole disc, embodying an indispensable analytical tool for process stabilization and root cause analysis. Fast feedback on the production process enables the replicator to take corrective actions at an early stage, leading to yield enhancement and a noticeable improvement of the production process.

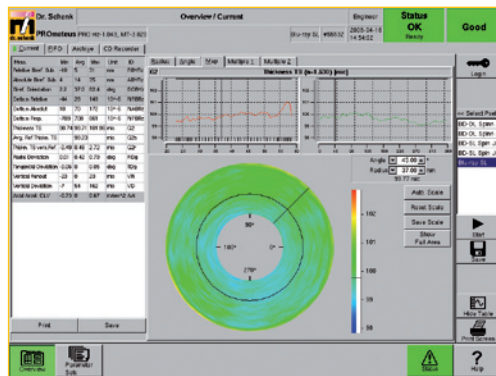
THE INDUSTRY STANDARD FOR OFF-LINE TESTING

- Industry and research standard for an easy comparison of measurement results worldwide
- Measurement of Blu-ray discs with blue-laser (at 405 nm) according to BD specifications
- Stable operation based on embedded LINUX™
- Unreached spot accuracy for most precise layer thickness measurement crucial especially at Blu-ray layer edges
- Very high scanning frequency up to 700,000 measurement points/inspection to guarantee superior spatial resolution
- User interface according to SEMI standard known from the Dr. Schenk In-Line scanners
- Fully network-compatible for an easy export of test results into customer data bases
- Tests blue and red formats in only one system



SYSTEM FEATURES & VALUABLE FUNCTIONS

- Transmission T0 and Reflectivity R0 at 405 nm
- Radial, Tangential and Vertical Deviation
- Vertical Runout and Axial Acceleration
- Relative & Absolute Birefringence Inplane Blue (405 nm)
- Birefringence Orientation
- Data Transfer Program PROPC-200
- Data storage with capacity for up to 120,000 measurements
- Touchscreen and printer package



The visualisation software PRO.viz - Easy data presentation with multi diagram function

BLU-RAY

Diffraction efficiency 1st order (405 nm)
Transmittance and reflectivity
Groove Evaluation for Blu-ray

LAYER-THICKNESS

Substrate thickness, cover layer and space layer thickness

PERP-BIREF-BLUE

Perpendicular birefringence at 405 nm
 Δn Inplane and Δn perpendicular birefringence both at 405 nm

HIGH-RES ACC

Enhanced evaluation of local deformations (ACC)

LACQUER

Lacquer thickness measurement

DVDR DYE

Optical density / thickness of BD -R, DVD-R and DVD±R Dyes

DVDR DL DYE

Optical density / thickness of dyes for DL BD-R, DVD±R and DVD±R (option includes DVDR DYE)

ACCELERATION DEFECT ANALYSIS

The HIGH-RES ACC option enables enhanced evaluation of acceleration defects on the complete disc. This high-resolution measurement of smallest local deformations is particularly important for high-speed Blu-ray discs, demanding maximum flatness for proper recording.

Previously, only possible on electrical testers with significant time delay, the HIGH-RES ACC option provides immediate feedback on process issues. This allows corrective actions to be taken in time, ensuring continuous high yield.

TECHNICAL DATA

Radial Measurement Range	19 ... 70 mm
Measurement Resolution	Radial: 0.1 mm, 0.25 mm, 0.5 mm, 1 mm, 2 mm (selectable) Tangential: 256 points per turn 2048 points per turn with option HIGH-RES ACC
Measurement Duration	Typically 20 sec, depending on disc diameter and measurement resolution
Display	15" color TFT display, Touchscreen, Resolution: 1024 x 768 pixels
Power Supply	100...127 VAC, 200...240 VAC, 50...60 Hz, 250 VA
Dimensions	Height: 500 mm (+ 330 mm for TFT-screen), Width: 480 mm Depth: 560 mm (+ 230 mm for keyboard drawer)
Laser Class	Class 1 laser and LED product

Dr. Schenk GmbH

Industriemesstechnik

Einsteinstrasse 37 (Martinsried)
82152 Planegg
Germany

Germany

Phone: +49-89-85695-0
Fax: +49-89-85695-200
sales@drschenk.com

USA

Phone: +1-651-730-4090
Fax: +1-651-730-1955
salesus@drschenk.com

Japan

Phone: +81-45-929-6106
Fax: +81-45-929-0932
sales@drschenk.jp

Korea

Phone: +82-2-527-1633
Fax: +82-2-527-1635
sales_korea@drschenk.com

Taiwan

Phone: +886-2-2920-7899
Fax: +886-2-2920-8198
service_taiwan@drschenk.com

China

Phone: +86-10-6503-2159
Fax: +86-10-6503-2161
service_china@drschenk.com

Hong Kong

Phone: +852-2425-1860
Fax: +852-2425-6775
service_hongkong@drschenk.com

Contact us: info@drschenk.com

www.drschenk.com



dr. schenk