

Eccentricity Analyzer and Balance Analyzer: DaTARIUS expands its MEASURE product family

Reutte, February 2004:

The DaTARIUS Group is pleased to announce that following a recently agreed co-operation partnership with Sony Precision Technology Europe (SPTe) that it will be distributing two Sony products in Europe. These complement the DaTARIUS range of quality control equipment for the optical disc manufacturing process. The products are the DVD Eccentricity Analyzer (Sony DEC-12) and the CD/DVD Balance Analyzer (Sony DUC-10) "These are key systems for Sony Precision Technology", says Yoshiki Fujii, Managing Director of SPTe, "and we have been very successful with global sales of both units. We have a good history of working on projects with DaTARIUS, such as the DVD±R/RW Analyzer that is based on the Sony reference pick-up and drive, and we are pleased to have the sales team of DaTARIUS involved in the distribution of our balance and eccentricity quality control systems."

DVD Eccentricity Analyzer

Eccentricity (sometimes referred to as RRO, or radial run out) in DVDs is a major concern for optical media manufacturers and can become a problem at virtually any stage of the manufacturing process. The most common reasons are inaccurate stamper punching, shrinking during the cooling phase, and incorrect bonding settings.

Tracks should be circular and concentric with the centre hole of a disc. Eccentricity is the difference that occurs when the hole is off centre.

Eccentricity that is too high can cause tracking problems with consumer drives, thus leading to playability problems, which further increase with the playing speed. Problems of eccentricity can be identified and corrected by performing a quick diagnostic before and/or after the bonding station. The DVD Eccentricity Analyzer provides immediate feedback of both L0 and L1 of a DVD disc within 10 seconds, allowing for process adjustment (stamper quality and bonding station) to be carried out right away, leading to rapid process optimization.



Figure 1: DVD Eccentricity Analyzer

CD / DVD Balance Analyzer

Balance issues in optical media formats have become increasingly important, with the consumer CD and DVD-ROM drives reaching speeds of up to 56X and 16X respectively. Imbalance of a disc can be caused by a number of factors for instance; non-uniformity of the substrate, the bonding agent or the print label. Faulty discs will not only fail to play properly, particularly at higher speeds, but they will also have a detrimental effect on the lifetime of a drive. The Balance Analyzer provides Pass/Fail reports, within 15 seconds, showing whether a disc

will exhibit problems at higher speeds, thus enabling operators to adjust the necessary settings to optimize manufacturing yields.



Figure 2: CD / DVD Balance Analyzer

“These specific parameter analyzers from Sony Precision Technology are the perfect complement to our range of quality control systems for the optical media manufacturing process,” says Bob Dobbin, CTO of DaTARIUS.

He added, “In today’s highly competitive marketplace, replicators need to be able to maximize the efficiency of their processes and optimize their yields. When margins become increasingly narrow, it is even more important to keep a tight reign on quality control during the

manufacturing process so that process windows can be run as tightly as possible. In that way, replicators can become more efficient and competitive.”

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DaTARIUS Corporate Information

The DaTARIUS Group is an international company focused on providing solutions to the optical media manufacturing industries. DaTARIUS has over 18 years’ experience in the manufacture and distribution of equipment for inspecting, measuring and optimizing at every stage of the optical media manufacturing process.

DaTARIUS is unique in providing equipment for the whole production process right through from pre-mastering to print and packaging. In addition, DaTARIUS also develops and supplies process optimization equipment such as sprue recycling and mould cooling systems. This broad product range is supplemented by a consulting and training service.

With headquarters in Reutte, Austria (R&D sales and service), and regional offices in America (R&D, sales and service) and Hong Kong (sales and service) the company has a global team of 85 employees and a extensive sales and service support network covering every major market of the globe: North America, South America, Europe, the Middle East, and the Pacific Rim.

For more information on the company and its products, visit www.DaTARIUS.com

