

## Updated DaTAVIEW from DaTARIUS

DaTARIUS has worked with a number of leading companies to develop upgrades for its DaTAVIEW system, the GUI used in all DaTARIUS DaTABANK and CS-5 systems. Among the new enhanced features are high-speed Jitter checking, Bit to Bit comparison and increased copy protection compatibility.

DaTARIUS, leading the industry in high-speed testing of optical media, has further refined its advanced Jitter measurement system.

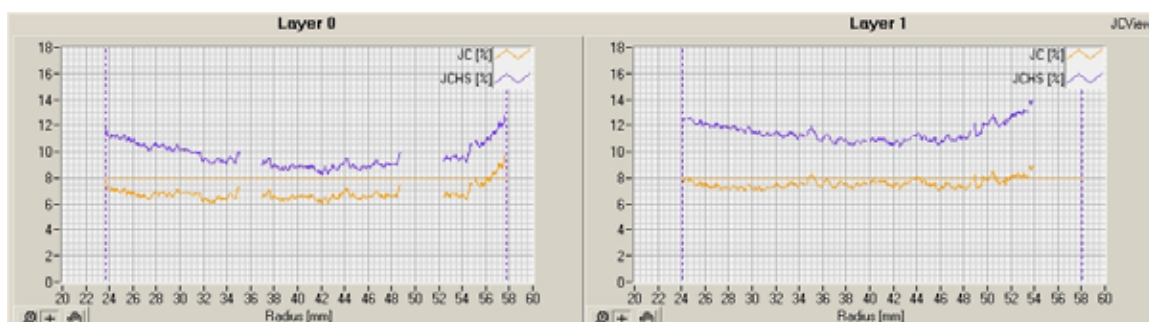
There are two key goals of high speed testing:

1. To test the disc in the shortest time period and, therefore, offer both faster reaction times to optimize production and be more cost effective
2. To show the effects of playing the disc at higher speed – particularly important for ROM and REC media because the end user will inevitably play the disc at speeds above 1X

To achieve point 1 it is essential that the measurements at 1X and 4X are closely related. To achieve point 2, the higher speed effects on measured signals must be quantified.

The greatest difficulty is to achieve Jitter measurements at high speed matching those made at reference speed.

The DaTARIUS advanced Jitter measurement system has been further enhanced to ensure that Jitter at 4X closely matches Jitter at reference speed (1X) for all discs – even ones of low quality. In addition, there is a new parameter, Jitter Combined High Speed (JCHS), which shows the Raw Jitter at 4X. Large differences between Jitter Combined (JC) and Jitter High Speed (JCHS) can also be used as an indication that high speed data recovery from the disc may be marginalized.



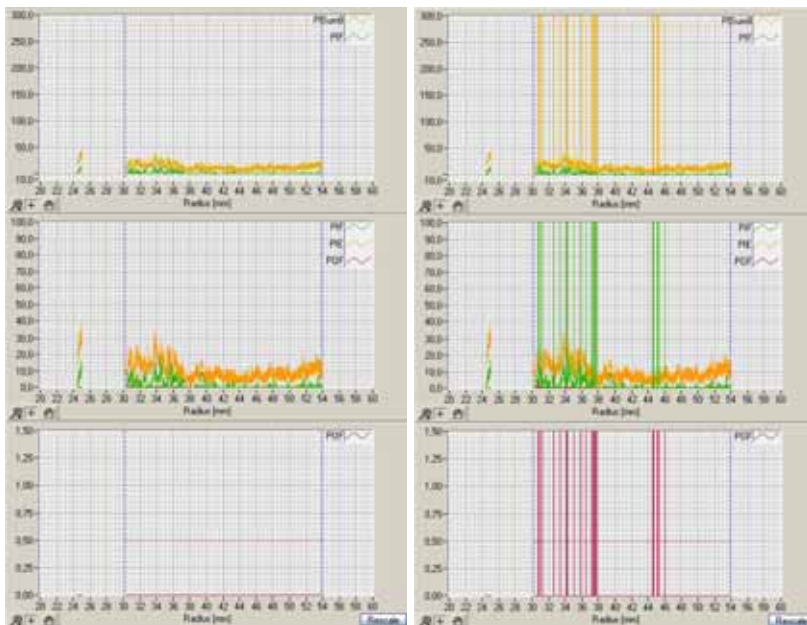
JC and JCHS (high-speed) Jitter on a Philips dual layer check disc



### Copy protection compatibility

There are increasing numbers of tools available that enable users to extract and compress DVD video for easy sharing of content over the Internet and P2P (peer to peer) networks. To combat this piracy, companies offer 'anti-ripping' solutions, in which a digital watermark is applied on the disc. During quality control checks it is important to filter out the effects caused by these copy protection schemes, so that they do not register as disc errors.

In co-operation with Macrovision and Sony DADC, DaTARIUS has now implemented into its DaTAVIEW software support for these companies' latest copy protection systems.



Copy protection effect filtered

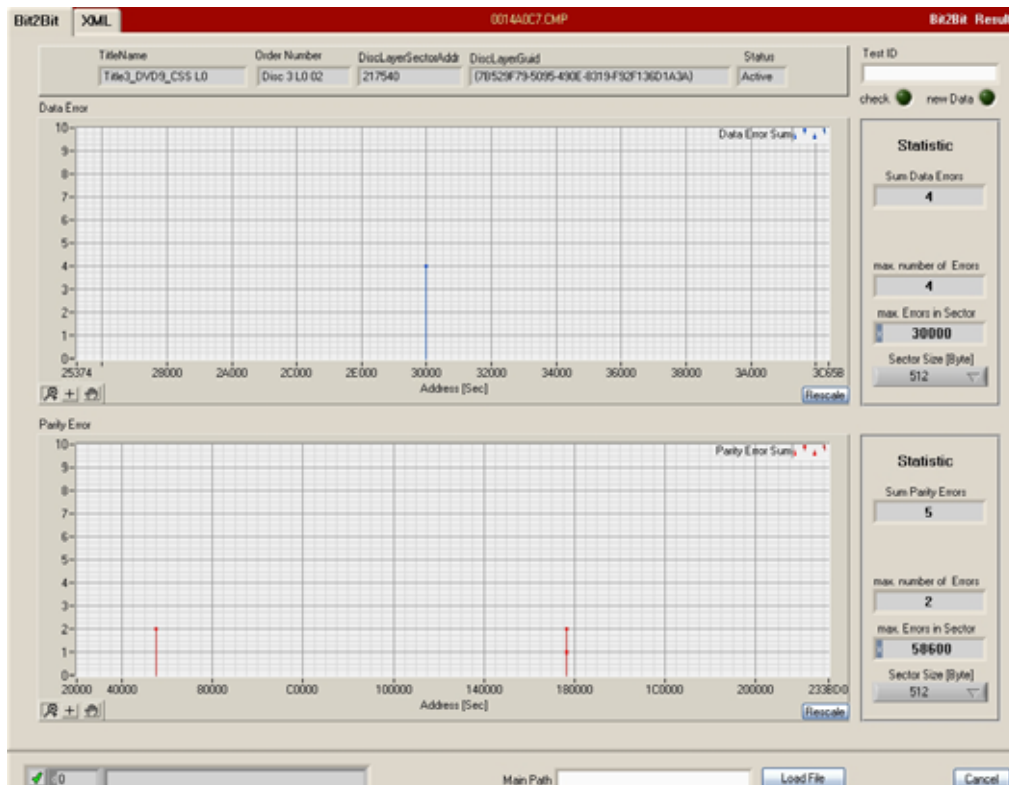
Copy protection effect raw

### Bit2bit Comparison

Working closely with DCA Inc, DaTARIUS has also introduced DVD bit2bit comparison into its DaTAVIEW software. This offers a comparison between mastering files and a resulting stamper or replica, and it supports pre-recorded single and dual layer DVDs.

This is done by reporting the location and also the amount of data errors and parity errors. A standard electrical and physical test can also be run in parallel to this logical and format verification. With both results it is then possible to attribute errors to the mastering/encoding process or the stamper making / replication process.





### **About DaTARIUS Technologies GmbH**

DaTARIUS has been at the forefront of optical media development for over 20 years as a world-leading supplier of test equipment, helping the media manufacturing industry to improve production quality, consistency and efficiency.

DaTARIUS produces measurement, test and quality control systems for all CD and DVD formats: pre-recorded, recordable and rewritable. Its revolutionary DaTABANK(tm) technology is fully enabled for Blu-ray Disc (BD) and HD DVD testing.

The DaTARIUS product range extends to optimization of all optical media formats, with the MF DisCo temperature regulator and Universal Sprue Recycler. These help to improve moulding quality, cycle times and the efficient use of raw polycarbonate. The DaTARIUS Inspect product family offers print label quality inspection, disc orientation and Ident code validation. DaTARIUS offers extensive training through its service centres worldwide and is fully committed to the future of its customers.

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