



THE NEXT STEP IN DVD PRODUCTION TESTING

AudioDev's DVD Falken drive and platform SA300 is a cost effective unique solution, that combines a well proven platform and software with an in-house built drive. The important initial production test time can be minimized by combining your existing CATS system with several DVD Falkens. DVD Falken complies with the CATS quality that allows you to focus on improving your manufacturing process and compete more cost effectively in the growing marketplace of pre-mastered DVD.



CATS™

CATS DVD FALKEN

COST EFFECTIVE

DVD Falken is a cost effective complement to your current reference test system, with a focus on process control. Measurement characteristics are similar to the Pulstec SDP 1000 reference drive and contain all necessary parameters for evaluating your manufacturing process. The DVD Falken correlates, reproduces and repeats in 1x according to CATS quality and general DVD standards.

COMPLY WITH EXISTING QUALITY STANDARD

DVD Falken is compatible with the CATS SA300 hardware and software platform. The SA300 system is a proven and reliable platform that allows you to combine other AudioDev analyzers with DVD Falken. AudioDev also provides the most used DVD analyzer software with the DVD Falken. This software has undergone years of stability verification and its user interface is highly customizable.

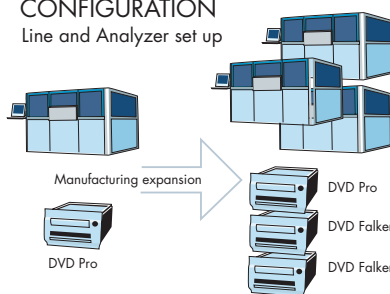
NO UNCONTROLLED DOWN TIME

DVD Falken will reduce your worries about test time in the manufacturing process. With CATS DVD Falken we guarantee 2 years of warranty and 1 working day shipment of a replacement drive. AudioDev also provides dial-up interaction by our nearest service centre, in order to decrease downtime. Our solution includes everything you need to take your discs all the way to the market.

OPTIMIZED TO YOUR SPECIFIC MANUFACTURING PROCESS

DVD Falken can be calibrated according to your own specific environment and mastering system. By utilizing your own manufactured discs, you can reduce external noise and the correlation offset to your reference analyzer will be minimized.

CONFIGURATION
Line and Analyzer set up



DVD Falken is fully compatible with CATS DVD Pro and CATS DVD 2x and can be configured in any combination of up to 8 CATS analyzers. Splitting your tests between 4 DVD Falken gives you a 4x test speed system. We recommend DVD Falken to be used in conjunction with a reference analyzer for the batch-stamp purpose.

PRODUCTION RELATED PARAMETERS

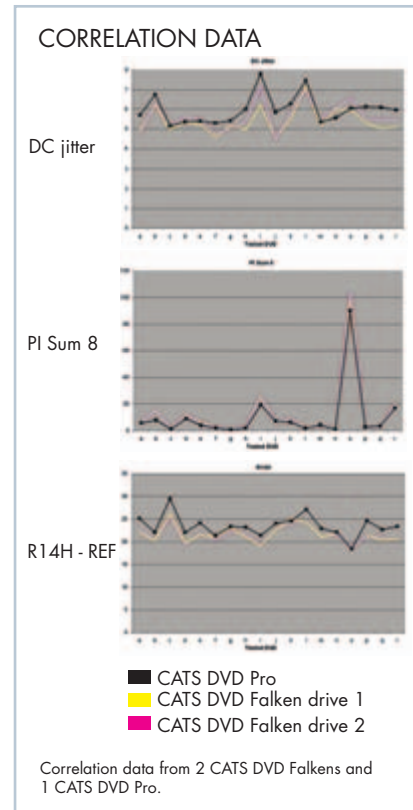
DVD Falken is a process parameter analyzer. Reflectivity for example is not affected by birefringence and thereby allowing to fully control the metallization phase in the manufacturing process.

FULL CONTROL

CATS DVD Falken is entirely designed and manufactured by AudioDev which gives us full insight and thus the ability to provide fast and reliable service. By designing the driver optics internally, AudioDev have full control of the drive and thus also the total performance. In order to be the most reliable test equipment supplier, all AudioDev service staff have full product portfolio expertise.

THE LEADER OF OPTICAL MEDIA ANALYZERS

AudioDev is a leading player within optical media testing development and is a member of the DVD forum and Blu-Ray disc agreement. That guarantees early insight into next generation optical media and thus secures future supplies of optical media analyzers. For almost 2 decades AudioDev has developed and supplied optical media manufacturers with innovative optical analyzers and today has a well-deserved reputation as the de facto standard and the most trusted name in testing.



PHYSICAL PARAMETER LIST

Book type, Part version, Disc type, Disc size, Number of layers, Track path, Layer type, Linear density, Track density, Start sector, End sector, Region code.

HF SIGNALS

REF	Percentage of reflected light
I3/I14	Ratio between smallest and largest component of the HF signal
I14/I14H	Ratio between the largest component of the HF signal and reflectivity
ASYM	Asymmetry between the DC level of the smallest and largest components of the HF signal
I14H RV	Measures reflectivity variation during one revolution

SERVO & TRACKING

DPD Amp	Differential Phase Detection Amplitude (indication of tracking signal strength)
DPD Asym	Differential Phase Detection Asymmetry (indication of asymmetry in the DPD-signal)
FE	Focus Error (<10kHz)
Radial 1	Radial Error (<1.1kHz)
Radial 2	Radial Error (from 1.1kHz to 10kHz)
Radial Noise	Radial Error (from 1.1kHz to 10kHz, not normalized)
TPP	Tangential Push Pull (peak-to-peak of TPP signal)
TCS	Track Crossing Signal (filtered HF signal in radial direction)

DIGITAL ERRORS

PIE	Parity Inner Errors
PIF	Parity Inner Fails
POF	Parity Outer Fails
PI Sum 8	Floating window of 8 ECC blocks of Parity Inner Error

JITTER ANALYSIS

DC Jit	Data to Clock Jitter
DC Hist	Data to Clock Jitter Histogram
DD Jit	Data to Data Jitter
DD Hist	Data to Data Jitter Histogram

SIGNAL ON CONNECTORS

HF	- AC coupled unfiltered HF signal
HFF	- AC coupled filtered HF signal
EQ	- AC coupled equalized HF signal
EFM	- EFM signal (TTL level)
PCK	- P-clock signal (TTL level)

HIGHLIGHTED FEATURES

- Cost effective
- SDP 1000 Pulstec measurement characteristics
- Process control optimized
- Fully developed by AudioDev
- SA300 compatible
- 24 month warranty of DVD Falken drive
- CATS analyzer