

QA-301 Desktop CD Analyzer



- Analyze CD-DA, CD-ROM, CD-ROM-XA, CD-R, CD-I, & Photo-CD
- Graphical display of all data
- Measures and plots:
 - Block Error Rate (BLER)
 - All error flags (E11, E21, E31, E12, E22, E32)
 - I11 & I3 amplitudes
 - HF Asymmetry

- Burst Error Rate with definable burst length
- Radial Noise
- Total uncorrectable errors
- Push-pull amplitude
- Complete or partial test
- Quick-Scan with user-definable interval and sample time
- Uses single-beam Philips CDM4 pickup
- Optional Jitter/Effect Length Analysis
- Reads & displays Q-code control bits
- Analyzes lead-in area of the disc
- Reads and displays TOC
- Reads and displays UPC/EAN and ISRC codes
- Out-of-range alarms with user-definable limits
- Listing of errors to the printer
- Automatic computer control of the player
- Statistical Analysis of up to 100 discs
- Buffered 'scope outputs

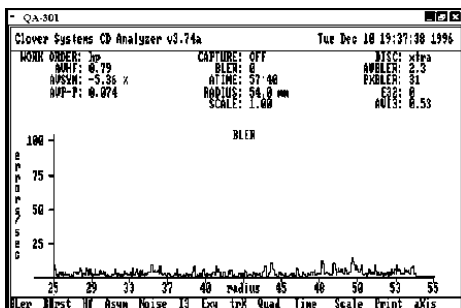
The Clover Systems QA-301 CD Analyzer is an easy to use and affordable tool for the evaluation of Compact Discs. It will test CD-DA, CD-ROM, CD-ROM XA, CD-I, CD-Recordable, and Photo-CD's. It was developed in collaboration with a major CD manufacturer, and is designed for factory floor operation by production personnel. It compares favorably with units costing many times more.

This PC-based system measures signals relating to pit geometry and error rates, which are then displayed or printed in graphic form showing performance over the whole disc. The system produces alarms to signal bad discs, or trends of degrading performance. Alarm limits (maximum & minimum) for each parameter can be set by the user. These settings are permanently saved, and password protected.

The QA-301 uses the Philips CDM4 single-beam pickup, as used by CD-CATS and Koch analyzers, thus providing good correlation with these other test systems. We can provide comparison data on request.

The QuickScan feature provides automatic sampling of the data at user-defined intervals, allowing complete characterization of a 60-minute disc in six minutes. Complete software calibration is included.

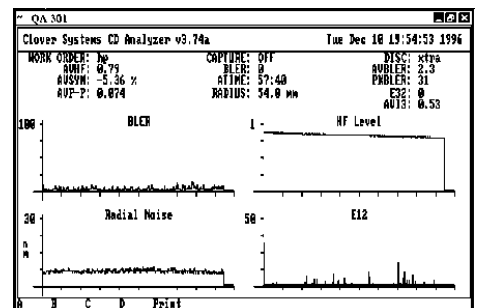
The system includes a rack-mount industrial Pentium computer, monitor, keyboard, & mouse.



Summary of Results

	Minimum	at TIME	Maximum	at TIME	Average
BLER:	1.3	05:22	23.4	47:05	5.2
E11:	1.2	03:22	2.7	59:02	1.9
E21:	0.0	06:12	6.2	53:32	0.5
E31:	0.0	06:19	18.9	47:02	0.5
E12:	0.0	06:12	36.4	59:22	2.1
E22:	0.0	06:12	1.0	47:02	0.0
E32:	0.0	06:12	31.2	47:02	0.0
BURST:	0.0	06:19	0.3	47:05	0.0
I11:	0.52	55:42	0.47	00:12	0.41
I3:	0.36	55:22	0.47	52:32	0.42
ASYM:	-4.8	06:12	1.3	58:22	-1.6
RM:	6.5	49:02	12.0	04:27	9.6
PP:	0.05%	56:02	0.065	26:05	0.042
PPP:	0.061	56:02	0.066	26:05	0.065
TOT E22:	10				
TOT E32:	312				

Over-range Print ESC



26945 Cabot Road, Suite 114 • Laguna Hills, CA 92653

Tel: +1 949.582.8010 • Fax: +1 949.582.8010

Email: info@cloversystems.com • URL: <http://www.cloversystems.com>