



Artem Rubtsov 2010 7 ???HDD SCAN 3.3 ??,?????????  
?? <http://hddscan.com/download/HDDScan-3.3.zip>

1.????,????SMART????????(?????)

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### HDDScan Drive Test Report

Model: Hitachi HTS545025B9SA02  
Firmware: PB2AC60T  
Serial: 100119PBL2001SK5TPAN  
LBA: 488397168

Report By: HDDScan for Windows version 3.3  
Report Date: 08/11/2010 21:38:47



2.?? SSD SMART??

Model: SAMSUNG SSD Thin uSATA 64GB M  
 Firmware: VAM05D1Q  
 Serial: DFF360C836SE836B3798  
 LBA: 125045424

Report By: HDDScan for Windows version 3.3  
 Report Date: 08/11/2010 21:45:35

Detected controller Samsung

	Num	Attribute Name	Value	Worst	Raw(hex)	Threshold
●	009	Power-On Hours Count	099	099	0000000000-1262	000
●	012	Device Power Cycle Count	098	098	0000000000-05BC	000
●	175	Program Fail Count (Chip)	100	100	0000000000-0000	012
●	176	Erase Fail Count (Chip)	100	100	0000000000-0000	012
●	177	Wear Leveling Count	100	100	0000000000-0000	023
●	178	Used Rsvd Block Count (Chip)	075	075	0000000000-000F	012
●	179	Used Rsvd Block Count Total	099	099	0000000000-0026	010
●	180	Unused Rsvd Block Count Total	050	050	0000000000-079A	010
●	181	Program Fail Count Total	100	100	0000000000-0000	010
●	182	Erase Fail Count Total	100	100	0000000000-0000	010
●	183	Runtime Bad Block	100	100	0000000000-0000	010
●	187	Reported Uncorrectable Error	100	100	0000000000-0000	000
●	195	ECC Rate	200	200	0000000000-0000	000
●	198	Uncorrectable Errors Count	100	100	0000000000-0000	000
●	199	CRC Error Count	253	253	0000000000-0000	000
●	232	Unknown Attribute	077	077	0000000000-002F	012
●	233	Unknown Attribute	004	004	000000F764-8EC5	000

3.????



4.??ATA ?? AAM, APM, PM