

Victoria 4.46b Freeware (12.08.2008)

Hitachi HTS541212H9AT00 | SN: HP0400BEGP6ATA | Fw: HP4OA23C | 234441648 LBA (~111 GB) | WMI 05:00:15

Standard SMART Tests Advanced Setup

API PIO Port CCA0h Hints

ID	Name	VAL	Wrst	Thresh	Raw	Health
1	Raw read error rate	100	100	62	0	
2	Throughput performance	100	100	40	227	
3	Spin-up time	106	100	33	1460288880...	
4	Number of spin-up times	100	100	0	448	
5	Reallocated sector count	100	100	5	0	
7	Seek error rate	100	100	67	0	
8	Seek time performance	100	100	40	0	
9	Power-on time	100	100	0	10	
10	Spin-up retries	100	100	60	0	
12	Power cycle count	100	100	0	128	
191	G-SENSOR shock counter	100	100	0	0	
192	Power-off retract count	100	100	0	68	
193	Load/unload cycle count	100	100	0	523	
194	HDA Temperature	220	100	0	25°C/77°F	
194	Minimum temperature	90	100	0	21°C/69°F	-
194	Maximum temperature	90	100	0	51°C/123°F	-
196	Reallocated event count	100	100	0	0	
197	Current pending sectors	100	100	0	1	
198	Offline scan UNC sectors	100	100	0	0	
199	Ultra DMA CRC errors	200	200	0	0	
200						

SMART monitor
Get SMART GOOD
Use IBM super smart:
Open BIN Save BIN Crypt it!

Control Timer
SMART ON SMART OFF
Auto Save attributes ON Auto Save attributes OFF
60 [period] ON

SMART test box
Off-line data collect
Begin Abort 0

Break All
Sleep
Recall
Reset
Rd Wrt Passp Power

ERR INX CORR DRQ DRSC WRF DRDY BUSY AMNF TONF ABRT IDNF UNC BBK 00 00
48 bit DRDY sound

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` 04: Model: Hitachi HTS541212H9AT00; Capacity: 234441648 LBAs; SN: HP0400BEGP6ATA; FW: HP4...
` 04: Get S.M.A.R.T. command... OK
` 04: SMART status = GOOD
` 04: Adaptor Power OFF

```

Victoria ??? <http://hdd-911.com/> ??????????????????????

Windows ? ??Win XP,Vista, 7 ,2000,2003, 2008 32?? ??2008 ??
??????Clone ???

?????

1. ???ATA ???,??? ,??,???,??.
?????????????????
?PIO????? ATA??,???????
2. Smart ??(???USB ?? ,?? SSD Smart?????????????)
Smart Test box (Smart test ??)
3. ???ECC ???(?????) ??????MHDD
4. ???
HPA ??
USER and Master ATA Password ,??????
Write Cache and Read Cache ?????
Smart?????.

5. ???????.

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<http://hdd-911.com/index.php?option=...art=0&limit=15>

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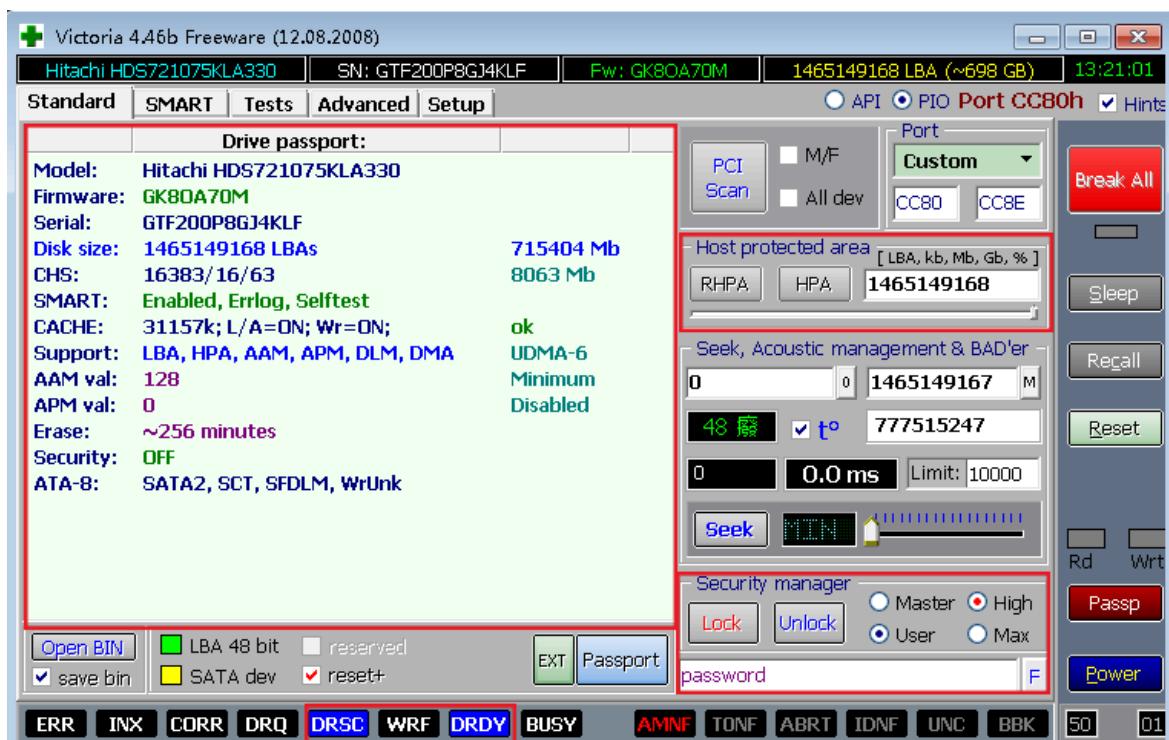
1.??PIO or API????Storage

PIO (Programmed input/output) ,Victoria ???? HBA I/O????,????IDE ??? ,SATA ??????ATA ?SATA???.????
??,??Victoria DOS?. ??SATA ??ATA ????

API??Windows ???..

Windows API????ATA Password ,?HPA ?ATA Command ?? ???????ok.

2.?? Get Passport.



????????.

Drive Passport??????

Model:??

Serial:?? ?Windows API????????.

Disk Size:?LBA (logical block area) ?Mb??, 1 LBA=512 Bytes

CHS:16383* 16 * 63= 16514064 (LBA)=8063MB ??? ????????,?????????.

SMART:?????

Cache:**??Cache ??,?????** ,HDD ?Embedded os ?????? dram .????????????Cache??.

Support:LBA????(??8GB HDD ???LBA) ,HPA ,AAM,APM ??????

AAM:Automatic acoustic management (??????) ??????????: ?? (0x80 - 0xFE) 128-254

???254 ??????????.????????Access Time.

Seagate ??????AAM????.

APM:Advanced power management ?????? ?? (0x00 - 0xFF) 0-254 ,0?????, 255 ???

APM??3.5?????.?????2.5 ?? ??2.5???Park?. Park??HSA ??????????????.

??HSA ????,??????????????????????.???OS??(????)??.

Victoria ??? APM .???????? HDD Scan??????

????APM??PM (Power management)

APM?????????????

ERASE:?ATA ????????

Security:????ATA ??

ATA-8:ATA 8??

?????? AAM ?APM ???????????

<http://www.osslab.org.tw/Storage/Software/Tools>

HPA

http://www.osslab.org.tw/Storage/Data_Recovery/Example/capacity

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1.http://en.wikipedia.org/wiki/Automatic_tic_management

2.<http://www.metamuse.net/2009/03/notebook-hardisk.html>

3.<http://phorum.study-area.org/index.php?c,61540.0.html>

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<http://translate.googleusercontent.c...c66fjk1aWme0sA>