

```
XXX@YYY:~ # smartctl /dev/da0 -a
smartctl 7.2 2021-09-14 r5236 [FreeBSD 13.1-RELEASE-p2 amd64] (local build)
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```

=== START OF INFORMATION SECTION ===

```
Model Family:      HGST Ultrastar He10
Device Model:      HGST HUH721010ALE600
Serial Number:     1SGEES2Z
LU WWN Device Id:  5 000cca 26bc61c6b
Firmware Version:  LHGNT384
User Capacity:     10,000,831,348,736 bytes [10.0 TB]
Sector Sizes:      512 bytes logical, 4096 bytes physical
Rotation Rate:     7200 rpm
Form Factor:       3.5 inches
Device is:         In smartctl database [for details use: -P show]
ATA Version is:    ACS-2, ATA8-ACS T13/1699-D revision 4
SATA Version is:   SATA 3.2, 6.0 Gb/s (current: 6.0 Gb/s)
Local Time is:     Tue Mar 7 16:59:10 2023 EST
SMART support is:  Available - device has SMART capability.
SMART support is:  Enabled
```

=== START OF READ SMART DATA SECTION ===

SMART overall-health self-assessment test result: PASSED

General SMART Values:

```
Offline data collection status:  (0x82) Offline data collection activity
                                   was completed without error.
                                   Auto Offline Data Collection: Enabled.
Self-test execution status:      (   0) The previous self-test routine completed
                                   without error or no self-test has ever
                                   been run.
Total time to complete Offline
data collection:                  (   93) seconds.
Offline data collection
capabilities:                      (0x5b) SMART execute Offline immediate.
                                   Auto Offline data collection on/off support.
                                   Suspend Offline collection upon new
                                   command.
                                   Offline surface scan supported.
                                   Self-test supported.
                                   No Conveyance Self-test supported.
                                   Selective Self-test supported.
SMART capabilities:              (0x0003) Saves SMART data before entering
                                   power-saving mode.
                                   Supports SMART auto save timer.
Error logging capability:        (0x01) Error logging supported.
                                   General Purpose Logging supported.
Short self-test routine
recommended polling time:        (   2) minutes.
Extended self-test routine
recommended polling time:        (1045) minutes.
SCT capabilities:                (0x003d) SCT Status supported.
                                   SCT Error Recovery Control supported.
                                   SCT Feature Control supported.
                                   SCT Data Table supported.
```

SMART Attributes Data Structure revision number: 16

Vendor Specific SMART Attributes with Thresholds:

ID#	ATTRIBUTE_NAME	FLAG	VALUE	WORST	THRESH	TYPE	UPDATED	WHEN_FAILED	RAW_VALUE
1	Raw_Read_Error_Rate	0x000b	100	100	016	Pre-fail	Always	-	0
2	Throughput_Performance	0x0005	133	133	054	Pre-fail	Offline	-	99
3	Spin_Up_Time	0x0007	169	169	024	Pre-fail	Always	-	406 (Average
371)									
4	Start_Stop_Count	0x0012	100	100	000	Old_age	Always	-	43
5	Reallocated_Sector_Ct	0x0033	100	100	005	Pre-fail	Always	-	0
7	Seek_Error_Rate	0x000b	100	100	067	Pre-fail	Always	-	0
8	Seek_Time_Performance	0x0005	128	128	020	Pre-fail	Offline	-	18
9	Power_On_Hours	0x0012	098	098	000	Old_age	Always	-	19594
10	Spin_Retry_Count	0x0013	100	100	060	Pre-fail	Always	-	0
12	Power_Cycle_Count	0x0032	100	100	000	Old_age	Always	-	41
22	Helium_Level	0x0023	100	100	025	Pre-fail	Always	-	100
192	Power-Off_Retract_Count	0x0032	100	100	000	Old_age	Always	-	1033
193	Load_Cycle_Count	0x0012	100	100	000	Old_age	Always	-	1033
194	Temperature_Celsius	0x0002	222	222	000	Old_age	Always	-	27 (Min/Max
14/48)									
196	Reallocated_Event_Count	0x0032	100	100	000	Old_age	Always	-	0

197	Current_Pending_Sector	0x0022	100	100	000	Old_age	Always	-	0
198	Offline_Uncorrectable	0x0008	100	100	000	Old_age	Offline	-	0
199	UDMA_CRC_Error_Count	0x000a	200	200	000	Old_age	Always	-	12768

SMART Error Log Version: 1

ATA Error Count: 12768 (device log contains only the most recent five errors)

CR = Command Register [HEX]
FR = Features Register [HEX]
SC = Sector Count Register [HEX]
SN = Sector Number Register [HEX]
CL = Cylinder Low Register [HEX]
CH = Cylinder High Register [HEX]
DH = Device/Head Register [HEX]
DC = Device Command Register [HEX]
ER = Error register [HEX]
ST = Status register [HEX]

Powered_Up_Time is measured from power on, and printed as
Ddd+hh:mm:ss.sss where DD=days, hh=hours, mm=minutes,
SS=sec, and sss=millisec. It "wraps" after 49.710 days.

Error 12768 occurred at disk power-on lifetime: 49 hours (2 days + 1 hours)

When the command that caused the error occurred, the device was active or idle.

After command completion occurred, registers were:

ER ST SC SN CL CH DH

-- -- -- -- --

84 51 18 70 f4 5b 40 Error: ICRC, ABRT 24 sectors at LBA = 0x005bf470 = 6026352

Commands leading to the command that caused the error were:

CR	FR	SC	SN	CL	CH	DH	DC	Powered_Up_Time	Command/Feature_Name
35	00	18	70	f4	5b	40	00	02:05:44.319	WRITE DMA EXT
ef	10	02	00	00	00	00	00	02:05:44.315	SET FEATURES [Enable SATA feature]
ef	02	00	00	00	00	00	00	02:05:44.312	SET FEATURES [Enable write cache]
ef	aa	00	00	00	00	00	00	02:05:44.309	SET FEATURES [Enable read look-ahead]
ef	03	46	00	00	00	00	00	02:05:44.306	SET FEATURES [Set transfer mode]

Error 12767 occurred at disk power-on lifetime: 49 hours (2 days + 1 hours)

When the command that caused the error occurred, the device was active or idle.

After command completion occurred, registers were:

ER ST SC SN CL CH DH

-- -- -- -- --

84 41 00 00 00 00 00 Error: ICRC, ABRT at LBA = 0x00000000 = 0

Commands leading to the command that caused the error were:

CR	FR	SC	SN	CL	CH	DH	DC	Powered_Up_Time	Command/Feature_Name
61	18	50	70	f4	5b	40	00	02:05:42.210	WRITE FPDMA QUEUED
35	00	78	90	45	06	40	00	02:05:42.209	WRITE DMA EXT
ef	10	02	00	00	00	00	00	02:05:42.206	SET FEATURES [Enable SATA feature]
ef	02	00	00	00	00	00	00	02:05:42.203	SET FEATURES [Enable write cache]
ef	aa	00	00	00	00	00	00	02:05:42.200	SET FEATURES [Enable read look-ahead]

Error 12766 occurred at disk power-on lifetime: 49 hours (2 days + 1 hours)

When the command that caused the error occurred, the device was active or idle.

After command completion occurred, registers were:

ER ST SC SN CL CH DH

-- -- -- -- --

84 51 78 90 45 06 40 Error: ICRC, ABRT 120 sectors at LBA = 0x00064590 = 411024

Commands leading to the command that caused the error were:

CR	FR	SC	SN	CL	CH	DH	DC	Powered_Up_Time	Command/Feature_Name
35	00	78	90	45	06	40	00	02:05:42.210	WRITE DMA EXT
ef	10	02	00	00	00	00	00	02:05:42.206	SET FEATURES [Enable SATA feature]
ef	02	00	00	00	00	00	00	02:05:42.203	SET FEATURES [Enable write cache]
ef	aa	00	00	00	00	00	00	02:05:42.200	SET FEATURES [Enable read look-ahead]
ef	03	46	00	00	00	00	00	02:05:42.197	SET FEATURES [Set transfer mode]

Error 12765 occurred at disk power-on lifetime: 49 hours (2 days + 1 hours)

When the command that caused the error occurred, the device was active or idle.

After command completion occurred, registers were:

ER ST SC SN CL CH DH

```
-- -- -- -- --
84 41 00 00 00 00 00 Error: ICRC, ABRT at LBA = 0x00000000 = 0

Commands leading to the command that caused the error were:
CR FR SC SN CL CH DH DC Powered_Up_Time Command/Feature_Name
-- -- -- -- --
61 78 40 90 45 06 40 00 02:05:40.094 WRITE FPDMA QUEUED
35 00 78 90 42 c6 40 00 02:05:40.093 WRITE DMA EXT
ef 10 02 00 00 00 00 00 02:05:40.090 SET FEATURES [Enable SATA feature]
ef 02 00 00 00 00 00 00 02:05:40.087 SET FEATURES [Enable write cache]
ef aa 00 00 00 00 00 00 02:05:40.083 SET FEATURES [Enable read look-ahead]

Error 12764 occurred at disk power-on lifetime: 49 hours (2 days + 1 hours)
When the command that caused the error occurred, the device was active or idle.
```

```
After command completion occurred, registers were:
ER ST SC SN CL CH DH
-- -- -- -- --
84 51 78 90 42 c6 40 Error: ICRC, ABRT 120 sectors at LBA = 0x00c64290 = 12993168
```

```
Commands leading to the command that caused the error were:
CR FR SC SN CL CH DH DC Powered_Up_Time Command/Feature_Name
-- -- -- -- --
35 00 78 90 42 c6 40 00 02:05:40.093 WRITE DMA EXT
ef 10 02 00 00 00 00 00 02:05:40.090 SET FEATURES [Enable SATA feature]
ef 02 00 00 00 00 00 00 02:05:40.087 SET FEATURES [Enable write cache]
ef aa 00 00 00 00 00 00 02:05:40.083 SET FEATURES [Enable read look-ahead]
ef 03 46 00 00 00 00 00 02:05:40.081 SET FEATURES [Set transfer mode]
```

```
SMART Self-test log structure revision number 1
Num Test_Description Status Remaining LifeTime(hours) LBA_of_first_error
# 1 Extended offline Completed without error 00% 19590 -
# 2 Extended offline Interrupted (host reset) 90% 19571 -
# 3 Extended offline Interrupted (host reset) 70% 19566 -
# 4 Extended offline Completed without error 00% 19543 -
# 5 Extended offline Completed without error 00% 19519 -
# 6 Extended offline Completed without error 00% 19495 -
# 7 Extended offline Completed without error 00% 19471 -
# 8 Extended offline Completed without error 00% 19447 -
# 9 Extended offline Completed without error 00% 19424 -
#10 Extended offline Completed without error 00% 19399 -
#11 Extended offline Completed without error 00% 19375 -
#12 Extended offline Completed without error 00% 19351 -
#13 Extended offline Completed without error 00% 19327 -
#14 Extended offline Completed without error 00% 19303 -
#15 Extended offline Completed without error 00% 19280 -
#16 Extended offline Completed without error 00% 19256 -
#17 Extended offline Completed without error 00% 19231 -
#18 Extended offline Completed without error 00% 19207 -
#19 Extended offline Completed without error 00% 19190 -
#20 Extended offline Completed without error 00% 19159 -
#21 Extended offline Completed without error 00% 19135 -
```

```
SMART Selective self-test log data structure revision number 1
SPAN MIN_LBA MAX_LBA CURRENT_TEST_STATUS
1 0 0 Not_testing
2 0 0 Not_testing
3 0 0 Not_testing
4 0 0 Not_testing
5 0 0 Not_testing
```

Selective self-test flags (0x0):

After scanning selected spans, do NOT read-scan remainder of disk.
If Selective self-test is pending on power-up, resume after 0 minute delay.

```
XXX@YYY:~ # smartctl /dev/dal -a
smartctl 7.2 2021-09-14 r5236 [FreeBSD 13.1-RELEASE-p2 amd64] (local build)
Copyright (C) 2002-20, Bruce Allen, Christian Franke, www.smartmontools.org
```

```
=== START OF INFORMATION SECTION ===
Model Family: HGST Ultrastar He10
Device Model: HGST HUH721010ALE604
Serial Number: 7GJ313SK
LU WWN Device Id: 5 000cca 256dd9054
Firmware Version: LHAZW2J2
User Capacity: 10,000,831,348,736 bytes [10.0 TB]
```

Sector Sizes: 512 bytes logical, 4096 bytes physical
Rotation Rate: 7200 rpm
Form Factor: 3.5 inches
Device is: In smartctl database [for details use: -P show]
ATA Version is: ACS-2, ATA8-ACS T13/1699-D revision 4
SATA Version is: SATA 3.2, 6.0 Gb/s (current: 6.0 Gb/s)
Local Time is: Tue Mar 7 16:59:38 2023 EST
SMART support is: Available - device has SMART capability.
SMART support is: Enabled

=== START OF READ SMART DATA SECTION ===
SMART overall-health self-assessment test result: PASSED

General SMART Values:

Offline data collection status: (0x82) Offline data collection activity
was completed without error.
Auto Offline Data Collection: Enabled.
Self-test execution status: (0) The previous self-test routine completed
without error or no self-test has ever
been run.
Total time to complete Offline
data collection: (93) seconds.
Offline data collection
capabilities: (0x5b) SMART execute Offline immediate.
Auto Offline data collection on/off support.
Suspend Offline collection upon new
command.
Offline surface scan supported.
Self-test supported.
No Conveyance Self-test supported.
Selective Self-test supported.
SMART capabilities: (0x0003) Saves SMART data before entering
power-saving mode.
Supports SMART auto save timer.
Error logging capability: (0x01) Error logging supported.
General Purpose Logging supported.
Short self-test routine
recommended polling time: (2) minutes.
Extended self-test routine
recommended polling time: (1186) minutes.
SCT capabilities: (0x003d) SCT Status supported.
SCT Error Recovery Control supported.
SCT Feature Control supported.
SCT Data Table supported.

SMART Attributes Data Structure revision number: 16

Vendor Specific SMART Attributes with Thresholds:

ID#	ATTRIBUTE_NAME	FLAG	VALUE	WORST	THRESH	TYPE	UPDATED	WHEN_FAILED	RAW_VALUE
1	Raw_Read_Error_Rate	0x000b	100	100	016	Pre-fail	Always	-	0
2	Throughput_Performance	0x0005	133	133	054	Pre-fail	Offline	-	100
3	Spin_Up_Time	0x0007	153	153	024	Pre-fail	Always	-	431 (Average 429)
4	Start_Stop_Count	0x0012	100	100	000	Old_age	Always	-	370
5	Reallocated_Sector_Ct	0x0033	100	100	005	Pre-fail	Always	-	0
7	Seek_Error_Rate	0x000b	100	100	067	Pre-fail	Always	-	0
8	Seek_Time_Performance	0x0005	128	128	020	Pre-fail	Offline	-	18
9	Power_On_Hours	0x0012	096	096	000	Old_age	Always	-	32842
10	Spin_Retry_Count	0x0013	100	100	060	Pre-fail	Always	-	0
12	Power_Cycle_Count	0x0032	100	100	000	Old_age	Always	-	365
22	Helium_Level	0x0023	100	100	025	Pre-fail	Always	-	100
192	Power-Off_Retract_Count	0x0032	097	097	000	Old_age	Always	-	3641
193	Load_Cycle_Count	0x0012	097	097	000	Old_age	Always	-	3641
194	Temperature_Celsius	0x0002	214	214	000	Old_age	Always	-	28 (Min/Max 21/48)
196	Reallocated_Event_Count	0x0032	100	100	000	Old_age	Always	-	0
197	Current_Pending_Sector	0x0022	100	100	000	Old_age	Always	-	0
198	Offline_Uncorrectable	0x0008	100	100	000	Old_age	Offline	-	0
199	UDMA_CRC_Error_Count	0x000a	200	200	000	Old_age	Always	-	44129

SMART Error Log Version: 1

ATA Error Count: 44129 (device log contains only the most recent five errors)

CR = Command Register [HEX]
FR = Features Register [HEX]
SC = Sector Count Register [HEX]
SN = Sector Number Register [HEX]
CL = Cylinder Low Register [HEX]

CH = Cylinder High Register [HEX]
DH = Device/Head Register [HEX]
DC = Device Command Register [HEX]
ER = Error register [HEX]
ST = Status register [HEX]

Powered_Up_Time is measured from power on, and printed as
DDd+hh:mm:ss.sss where DD=days, hh=hours, mm=minutes,
SS=sec, and sss=millisec. It "wraps" after 49.710 days.

Error 44129 occurred at disk power-on lifetime: 19 hours (0 days + 19 hours)
When the command that caused the error occurred, the device was active or idle.

After command completion occurred, registers were:

ER ST SC SN CL CH DH
-- -- -- -- -- -- --

84 51 a1 e6 d2 17 40 Error: ICRC, ABRT 161 sectors at LBA = 0x0017d2e6 = 1561318

Commands leading to the command that caused the error were:

CR	FR	SC	SN	CL	CH	DH	DC	Powered_Up_Time	Command/Feature_Name
35	00	00	88	ce	17	40	00	15:41:43.001	WRITE DMA EXT
35	00	00	88	c6	17	40	00	15:41:42.894	WRITE DMA EXT
35	00	00	88	be	17	40	00	15:41:42.889	WRITE DMA EXT
35	00	00	88	b6	17	40	00	15:41:42.886	WRITE DMA EXT
35	00	00	88	ae	17	40	00	15:41:42.880	WRITE DMA EXT

Error 44128 occurred at disk power-on lifetime: 19 hours (0 days + 19 hours)
When the command that caused the error occurred, the device was active or idle.

After command completion occurred, registers were:

ER ST SC SN CL CH DH
-- -- -- -- -- -- --

84 51 81 c6 c8 17 40 Error: ICRC, ABRT 129 sectors at LBA = 0x0017c8c6 = 1558726

Commands leading to the command that caused the error were:

CR	FR	SC	SN	CL	CH	DH	DC	Powered_Up_Time	Command/Feature_Name
35	00	00	48	c8	17	40	00	15:41:36.479	WRITE DMA EXT
35	00	00	48	c0	17	40	00	15:41:36.474	WRITE DMA EXT
35	00	00	48	b8	17	40	00	15:41:36.470	WRITE DMA EXT
35	00	00	48	b0	17	40	00	15:41:36.465	WRITE DMA EXT
35	00	00	48	a8	17	40	00	15:41:36.460	WRITE DMA EXT

Error 44127 occurred at disk power-on lifetime: 19 hours (0 days + 19 hours)
When the command that caused the error occurred, the device was active or idle.

After command completion occurred, registers were:

ER ST SC SN CL CH DH
-- -- -- -- -- -- --

84 51 70 d7 21 07 40 Error: ICRC, ABRT 112 sectors at LBA = 0x000721d7 = 467415

Commands leading to the command that caused the error were:

CR	FR	SC	SN	CL	CH	DH	DC	Powered_Up_Time	Command/Feature_Name
35	00	00	48	20	07	40	00	15:41:34.117	WRITE DMA EXT
25	00	01	06	00	00	40	00	15:41:34.115	READ DMA EXT
35	00	00	48	18	07	40	00	15:41:34.112	WRITE DMA EXT
25	00	01	05	00	00	40	00	15:41:34.112	READ DMA EXT
35	00	00	48	10	07	40	00	15:41:34.109	WRITE DMA EXT

Error 44126 occurred at disk power-on lifetime: 19 hours (0 days + 19 hours)
When the command that caused the error occurred, the device was active or idle.

After command completion occurred, registers were:

ER ST SC SN CL CH DH
-- -- -- -- -- -- --

84 51 31 ce c0 32 40 Error: ICRC, ABRT 49 sectors at LBA = 0x0032c0ce = 3326158

Commands leading to the command that caused the error were:

CR	FR	SC	SN	CL	CH	DH	DC	Powered_Up_Time	Command/Feature_Name
35	00	00	00	c0	32	40	00	15:41:28.973	WRITE DMA EXT
35	00	00	00	bf	32	40	00	15:41:28.971	WRITE DMA EXT
35	00	00	00	be	32	40	00	15:41:28.968	WRITE DMA EXT
35	00	00	00	bd	32	40	00	15:41:28.962	WRITE DMA EXT
35	00	00	00	bc	32	40	00	15:41:28.961	WRITE DMA EXT

Error 44125 occurred at disk power-on lifetime: 19 hours (0 days + 19 hours)
When the command that caused the error occurred, the device was active or idle.

After command completion occurred, registers were:

ER ST SC SN CL CH DH

--- --

84 51 c1 3e 4a 2e 40 Error: ICRC, ABRT 193 sectors at LBA = 0x002e4a3e = 3033662

Commands leading to the command that caused the error were:

CR FR SC SN CL CH DH DC Powered_Up_Time Command/Feature_Name

35 00 00 00 4a 2e 40 00 15:41:27.625 WRITE DMA EXT

35 00 00 00 49 2e 40 00 15:41:27.620 WRITE DMA EXT

35 00 00 00 48 2e 40 00 15:41:27.620 WRITE DMA EXT

35 00 00 00 47 2e 40 00 15:41:27.616 WRITE DMA EXT

35 00 00 00 46 2e 40 00 15:41:27.615 WRITE DMA EXT

SMART Self-test log structure revision number 1

Num	Test_Description	Status	Remaining	LifeTime(hours)	LBA_of_first_error
# 1	Extended offline	Completed without error	00%	32840	-
# 2	Extended offline	Interrupted (host reset)	90%	32819	-
# 3	Extended offline	Interrupted (host reset)	80%	32815	-
# 4	Extended offline	Completed without error	00%	32794	-
# 5	Extended offline	Completed without error	00%	32770	-
# 6	Extended offline	Completed without error	00%	32746	-
# 7	Extended offline	Completed without error	00%	32722	-
# 8	Extended offline	Completed without error	00%	32698	-
# 9	Extended offline	Completed without error	00%	32674	-
#10	Extended offline	Completed without error	00%	32650	-
#11	Extended offline	Completed without error	00%	32626	-
#12	Extended offline	Completed without error	00%	32602	-
#13	Extended offline	Completed without error	00%	32578	-
#14	Extended offline	Completed without error	00%	32554	-
#15	Extended offline	Completed without error	00%	32530	-
#16	Extended offline	Completed without error	00%	32506	-
#17	Extended offline	Completed without error	00%	32482	-
#18	Extended offline	Completed without error	00%	32458	-
#19	Extended offline	Completed without error	00%	32439	-
#20	Extended offline	Completed without error	00%	32410	-
#21	Extended offline	Completed without error	00%	32368	-

SMART Selective self-test log data structure revision number 1

SPAN MIN_LBA MAX_LBA CURRENT_TEST_STATUS

1 0 0 Not_testing

2 0 0 Not_testing

3 0 0 Not_testing

4 0 0 Not_testing

5 0 0 Not_testing

Selective self-test flags (0x0):

After scanning selected spans, do NOT read-scan remainder of disk.

If Selective self-test is pending on power-up, resume after 0 minute delay.

XXX@YYY:~ # smartctl /dev/da3 -a

smartctl 7.2 2021-09-14 r5236 [FreeBSD 13.1-RELEASE-p2 amd64] (local build)

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=== START OF INFORMATION SECTION ===

Model Family: HGST Ultrastar He10

Device Model: HGST HUH721010ALE600

Serial Number: 2THPLLPD

LU WWN Device Id: 5 000cca 26ad7e921

Firmware Version: LHGNT384

User Capacity: 10,000,831,348,736 bytes [10.0 TB]

Sector Sizes: 512 bytes logical, 4096 bytes physical

Rotation Rate: 7200 rpm

Form Factor: 3.5 inches

Device is: In smartctl database [for details use: -P show]

ATA Version is: ACS-2, ATA8-ACS T13/1699-D revision 4

SATA Version is: SATA 3.2, 6.0 Gb/s (current: 6.0 Gb/s)

Local Time is: Tue Mar 7 17:01:38 2023 EST

SMART support is: Available - device has SMART capability.

SMART support is: Enabled

=== START OF READ SMART DATA SECTION ===
SMART overall-health self-assessment test result: PASSED

General SMART Values:

Offline data collection status: (0x82) Offline data collection activity
was completed without error.
Auto Offline Data Collection: Enabled.

Self-test execution status: (0) The previous self-test routine completed
without error or no self-test has ever
been run.

Total time to complete Offline
data collection: (93) seconds.

Offline data collection
capabilities: (0x5b) SMART execute Offline immediate.
Auto Offline data collection on/off support.
Suspend Offline collection upon new
command.
Offline surface scan supported.
Self-test supported.
No Conveyance Self-test supported.
Selective Self-test supported.

SMART capabilities: (0x0003) Saves SMART data before entering
power-saving mode.
Supports SMART auto save timer.

Error logging capability: (0x01) Error logging supported.
General Purpose Logging supported.

Short self-test routine
recommended polling time: (2) minutes.

Extended self-test routine
recommended polling time: (1092) minutes.

SCT capabilities: (0x003d) SCT Status supported.
SCT Error Recovery Control supported.
SCT Feature Control supported.
SCT Data Table supported.

SMART Attributes Data Structure revision number: 16

Vendor Specific SMART Attributes with Thresholds:

ID#	ATTRIBUTE NAME	FLAG	VALUE	WORST	THRESH	TYPE	UPDATED	WHEN_FAILED	RAW_VALUE
1	Raw_Read_Error_Rate	0x000b	100	100	016	Pre-fail	Always	-	0
2	Throughput_Performance	0x0005	134	134	054	Pre-fail	Offline	-	96
3	Spin_Up_Time	0x0007	176	176	024	Pre-fail	Always	-	356 (Average
393)									
4	Start_Stop_Count	0x0012	100	100	000	Old_age	Always	-	404
5	Reallocated_Sector_Ct	0x0033	100	100	005	Pre-fail	Always	-	0
7	Seek_Error_Rate	0x000b	100	100	067	Pre-fail	Always	-	0
8	Seek_Time_Performance	0x0005	128	128	020	Pre-fail	Offline	-	18
9	Power_On_Hours	0x0012	096	096	000	Old_age	Always	-	33621
10	Spin_Retry_Count	0x0013	100	100	060	Pre-fail	Always	-	0
12	Power_Cycle_Count	0x0032	100	100	000	Old_age	Always	-	404
22	Helium_Level	0x0023	100	100	025	Pre-fail	Always	-	100
192	Power-Off_Retract_Count	0x0032	097	097	000	Old_age	Always	-	3720
193	Load_Cycle_Count	0x0012	097	097	000	Old_age	Always	-	3720
194	Temperature_Celsius	0x0002	214	214	000	Old_age	Always	-	28 (Min/Max
20/53)									
196	Reallocated_Event_Count	0x0032	100	100	000	Old_age	Always	-	0
197	Current_Pending_Sector	0x0022	100	100	000	Old_age	Always	-	0
198	Offline_Uncorrectable	0x0008	100	100	000	Old_age	Offline	-	0
199	UDMA_CRC_Error_Count	0x000a	200	200	000	Old_age	Always	-	0

SMART Error Log Version: 1
No Errors Logged

SMART Self-test log structure revision number 1

Num	Test_Description	Status	Remaining	LifeTime(hours)	LBA_of_first_error
# 1	Extended offline	Completed without error	00%	33618	-
# 2	Extended offline	Interrupted (host reset)	90%	33599	-
# 3	Extended offline	Interrupted (host reset)	70%	33594	-
# 4	Extended offline	Completed without error	00%	33572	-
# 5	Extended offline	Completed without error	00%	33548	-
# 6	Extended offline	Completed without error	00%	33524	-
# 7	Extended offline	Completed without error	00%	33500	-
# 8	Extended offline	Completed without error	00%	33476	-
# 9	Extended offline	Completed without error	00%	33452	-
#10	Extended offline	Completed without error	00%	33428	-
#11	Extended offline	Completed without error	00%	33404	-
#12	Extended offline	Completed without error	00%	33380	-

#13	Extended offline	Completed without error	00%	33356	-
#14	Extended offline	Completed without error	00%	33332	-
#15	Extended offline	Completed without error	00%	33308	-
#16	Extended offline	Completed without error	00%	33284	-
#17	Extended offline	Completed without error	00%	33260	-
#18	Extended offline	Completed without error	00%	33236	-
#19	Extended offline	Completed without error	00%	33212	-
#20	Extended offline	Completed without error	00%	33188	-
#21	Extended offline	Completed without error	00%	33164	-

SMART Selective self-test log data structure revision number 1

SPAN	MIN_LBA	MAX_LBA	CURRENT_TEST_STATUS
1	0	0	Not_testing
2	0	0	Not_testing
3	0	0	Not_testing
4	0	0	Not_testing
5	0	0	Not_testing

Selective self-test flags (0x0):

After scanning selected spans, do NOT read-scan remainder of disk.

If Selective self-test is pending on power-up, resume after 0 minute delay.

XXX@YYY:~ # smartctl /dev/da4 -a

smartctl 7.2 2021-09-14 r5236 [FreeBSD 13.1-RELEASE-p2 amd64] (local build)

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=== START OF INFORMATION SECTION ===

Model Family: HGST Ultrastar He10
 Device Model: HGST HUH721010ALE600
 Serial Number: 2THLA7ND
 LU WWN Device Id: 5 000cca 26ad66ca6
 Firmware Version: LHGNT384
 User Capacity: 10,000,831,348,736 bytes [10.0 TB]
 Sector Sizes: 512 bytes logical, 4096 bytes physical
 Rotation Rate: 7200 rpm
 Form Factor: 3.5 inches
 Device is: In smartctl database [for details use: -P show]
 ATA Version is: ACS-2, ATA8-ACS T13/1699-D revision 4
 SATA Version is: SATA 3.2, 6.0 Gb/s (current: 6.0 Gb/s)
 Local Time is: Tue Mar 7 17:01:41 2023 EST
 SMART support is: Available - device has SMART capability.
 SMART support is: Enabled

=== START OF READ SMART DATA SECTION ===

SMART overall-health self-assessment test result: PASSED

General SMART Values:

Offline data collection status: (0x80) Offline data collection activity
 was never started.
 Auto Offline Data Collection: Enabled.

Self-test execution status: (0) The previous self-test routine completed
 without error or no self-test has ever
 been run.

Total time to complete Offline
 data collection: (93) seconds.

Offline data collection
 capabilities: (0x5b) SMART execute Offline immediate.
 Auto Offline data collection on/off support.
 Suspend Offline collection upon new
 command.
 Offline surface scan supported.
 Self-test supported.
 No Conveyance Self-test supported.
 Selective Self-test supported.

SMART capabilities: (0x0003) Saves SMART data before entering
 power-saving mode.
 Supports SMART auto save timer.

Error logging capability: (0x01) Error logging supported.
 General Purpose Logging supported.

Short self-test routine
 recommended polling time: (2) minutes.

Extended self-test routine
 recommended polling time: (1180) minutes.

SCT capabilities: (0x003d) SCT Status supported.
 SCT Error Recovery Control supported.
 SCT Feature Control supported.
 SCT Data Table supported.

SMART Attributes Data Structure revision number: 16

Vendor Specific SMART Attributes with Thresholds:

ID#	ATTRIBUTE_NAME	FLAG	VALUE	WORST	THRESH	TYPE	UPDATED	WHEN_FAILED	RAW_VALUE
1	Raw_Read_Error_Rate	0x000b	100	100	016	Pre-fail	Always	-	0
2	Throughput_Performance	0x0005	133	133	054	Pre-fail	Offline	-	100
3	Spin_Up_Time	0x0007	155	155	024	Pre-fail	Always	-	403 (Average
444)									
4	Start_Stop_Count	0x0012	100	100	000	Old_age	Always	-	400
5	Reallocated_Sector_Ct	0x0033	100	100	005	Pre-fail	Always	-	0
7	Seek_Error_Rate	0x000b	100	100	067	Pre-fail	Always	-	0
8	Seek_Time_Performance	0x0005	128	128	020	Pre-fail	Offline	-	18
9	Power_On_Hours	0x0012	096	096	000	Old_age	Always	-	33617
10	Spin_Retry_Count	0x0013	100	100	060	Pre-fail	Always	-	0
12	Power_Cycle_Count	0x0032	100	100	000	Old_age	Always	-	400
22	Helium_Level	0x0023	100	100	025	Pre-fail	Always	-	100
192	Power-Off_Retract_Count	0x0032	097	097	000	Old_age	Always	-	3633
193	Load_Cycle_Count	0x0012	097	097	000	Old_age	Always	-	3633
194	Temperature_Celsius	0x0002	230	230	000	Old_age	Always	-	26 (Min/Max
19/53)									
196	Reallocated_Event_Count	0x0032	100	100	000	Old_age	Always	-	0
197	Current_Pending_Sector	0x0022	100	100	000	Old_age	Always	-	0
198	Offline_Uncorrectable	0x0008	100	100	000	Old_age	Offline	-	0
199	UDMA_CRC_Error_Count	0x000a	200	200	000	Old_age	Always	-	0

SMART Error Log Version: 1

No Errors Logged

SMART Self-test log structure revision number 1

Num	Test_Description	Status	Remaining	LifeTime(hours)	LBA_of_first_error
# 1	Extended offline	Completed without error	00%	33615	-
# 2	Extended offline	Interrupted (host reset)	90%	33595	-
# 3	Extended offline	Completed without error	00%	33573	-
# 4	Extended offline	Completed without error	00%	33549	-
# 5	Extended offline	Completed without error	00%	33525	-
# 6	Extended offline	Completed without error	00%	33501	-
# 7	Extended offline	Completed without error	00%	33477	-
# 8	Extended offline	Completed without error	00%	33453	-
# 9	Extended offline	Completed without error	00%	33429	-
#10	Extended offline	Completed without error	00%	33405	-
#11	Extended offline	Completed without error	00%	33381	-
#12	Extended offline	Completed without error	00%	33357	-
#13	Extended offline	Completed without error	00%	33333	-
#14	Extended offline	Completed without error	00%	33309	-
#15	Extended offline	Completed without error	00%	33285	-
#16	Extended offline	Completed without error	00%	33261	-
#17	Extended offline	Completed without error	00%	33237	-
#18	Extended offline	Completed without error	00%	33218	-
#19	Extended offline	Completed without error	00%	33189	-
#20	Extended offline	Completed without error	00%	33146	-
#21	Extended offline	Completed without error	00%	33117	-

SMART Selective self-test log data structure revision number 1

SPAN	MIN_LBA	MAX_LBA	CURRENT_TEST_STATUS
1	0	0	Not_testing
2	0	0	Not_testing
3	0	0	Not_testing
4	0	0	Not_testing
5	0	0	Not_testing

Selective self-test flags (0x0):

After scanning selected spans, do NOT read-scan remainder of disk.

If Selective self-test is pending on power-up, resume after 0 minute delay.

XXX@YYY:~ # smartctl /dev/da6 -a

smartctl 7.2 2021-09-14 r5236 [FreeBSD 13.1-RELEASE-p2 amd64] (local build)

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=== START OF INFORMATION SECTION ===

Model Family: HGST Ultrastar He10

Device Model: HGST HUH721010ALE600

Serial Number: 2THHJAGD

LU WWN Device Id: 5 000cca 26ad52666

Firmware Version: LHGNT384

User Capacity: 10,000,831,348,736 bytes [10.0 TB]

Sector Sizes: 512 bytes logical, 4096 bytes physical

Rotation Rate: 7200 rpm
Form Factor: 3.5 inches
Device is: In smartctl database [for details use: -P show]
ATA Version is: ACS-2, ATA8-ACS T13/1699-D revision 4
SATA Version is: SATA 3.2, 6.0 Gb/s (current: 6.0 Gb/s)
Local Time is: Tue Mar 7 17:01:44 2023 EST
SMART support is: Available - device has SMART capability.
SMART support is: Enabled

=== START OF READ SMART DATA SECTION ===
SMART overall-health self-assessment test result: PASSED

General SMART Values:

Offline data collection status: (0x82) Offline data collection activity
was completed without error.
Auto Offline Data Collection: Enabled.

Self-test execution status: (0) The previous self-test routine completed
without error or no self-test has ever
been run.

Total time to complete Offline
data collection: (93) seconds.

Offline data collection
capabilities: (0x5b) SMART execute Offline immediate.
Auto Offline data collection on/off support.
Suspend Offline collection upon new
command.
Offline surface scan supported.
Self-test supported.
No Conveyance Self-test supported.
Selective Self-test supported.

SMART capabilities: (0x0003) Saves SMART data before entering
power-saving mode.
Supports SMART auto save timer.

Error logging capability: (0x01) Error logging supported.
General Purpose Logging supported.

Short self-test routine
recommended polling time: (2) minutes.

Extended self-test routine
recommended polling time: (1044) minutes.

SCT capabilities: (0x003d) SCT Status supported.
SCT Error Recovery Control supported.
SCT Feature Control supported.
SCT Data Table supported.

SMART Attributes Data Structure revision number: 16

Vendor Specific SMART Attributes with Thresholds:

ID#	ATTRIBUTE_NAME	FLAG	VALUE	WORST	THRESH	TYPE	UPDATED	WHEN_FAILED	RAW_VALUE
1	Raw_Read_Error_Rate	0x000b	100	100	016	Pre-fail	Always	-	0
2	Throughput_Performance	0x0005	134	134	054	Pre-fail	Offline	-	96
3	Spin_Up_Time	0x0007	175	175	024	Pre-fail	Always	-	357 (Average)
396)									
4	Start_Stop_Count	0x0012	100	100	000	Old_age	Always	-	404
5	Reallocated_Sector_Ct	0x0033	100	100	005	Pre-fail	Always	-	0
7	Seek_Error_Rate	0x000b	100	100	067	Pre-fail	Always	-	0
8	Seek_Time_Performance	0x0005	128	128	020	Pre-fail	Offline	-	18
9	Power_On_Hours	0x0012	096	096	000	Old_age	Always	-	33621
10	Spin_Retry_Count	0x0013	100	100	060	Pre-fail	Always	-	0
12	Power_Cycle_Count	0x0032	100	100	000	Old_age	Always	-	404
22	Helium_Level	0x0023	100	100	025	Pre-fail	Always	-	100
192	Power-Off_Retract_Count	0x0032	097	097	000	Old_age	Always	-	3788
193	Load_Cycle_Count	0x0012	097	097	000	Old_age	Always	-	3788
194	Temperature_Celsius	0x0002	222	222	000	Old_age	Always	-	27 (Min/Max)
20/56)									
196	Reallocated_Event_Count	0x0032	100	100	000	Old_age	Always	-	0
197	Current_Pending_Sector	0x0022	100	100	000	Old_age	Always	-	0
198	Offline_Uncorrectable	0x0008	100	100	000	Old_age	Offline	-	0
199	UDMA_CRC_Error_Count	0x000a	200	200	000	Old_age	Always	-	0

SMART Error Log Version: 1
No Errors Logged

SMART Self-test log structure revision number 1

Num	Test_Description	Status	Remaining	LifeTime(hours)	LBA_of_first_error
# 1	Extended offline	Completed without error	00%	33617	-
# 2	Extended offline	Interrupted (host reset)	90%	33599	-
# 3	Extended offline	Interrupted (host reset)	70%	33594	-

Supports SMART auto save timer.
 Error logging capability: (0x01) Error logging supported.
 General Purpose Logging supported.
 Short self-test routine
 recommended polling time: (2) minutes.
 Extended self-test routine
 recommended polling time: (1108) minutes.
 SCT capabilities: (0x003d) SCT Status supported.
 SCT Error Recovery Control supported.
 SCT Feature Control supported.
 SCT Data Table supported.

SMART Attributes Data Structure revision number: 16

Vendor Specific SMART Attributes with Thresholds:

ID#	ATTRIBUTE NAME	FLAG	VALUE	WORST	THRESH	TYPE	UPDATED	WHEN_FAILED	RAW_VALUE
1	Raw_Read_Error_Rate	0x000b	100	100	016	Pre-fail	Always	-	0
2	Throughput_Performance	0x0005	134	134	054	Pre-fail	Offline	-	96
3	Spin_Up_Time	0x0007	168	168	024	Pre-fail	Always	-	375 (Average
409)									
4	Start_Stop_Count	0x0012	100	100	000	Old_age	Always	-	404
5	Reallocated_Sector_Ct	0x0033	100	100	005	Pre-fail	Always	-	0
7	Seek_Error_Rate	0x000b	100	100	067	Pre-fail	Always	-	0
8	Seek_Time_Performance	0x0005	128	128	020	Pre-fail	Offline	-	18
9	Power_On_Hours	0x0012	096	096	000	Old_age	Always	-	33621
10	Spin_Retry_Count	0x0013	100	100	060	Pre-fail	Always	-	0
12	Power_Cycle_Count	0x0032	100	100	000	Old_age	Always	-	404
22	Helium_Level	0x0023	100	100	025	Pre-fail	Always	-	100
192	Power-Off_Retract_Count	0x0032	097	097	000	Old_age	Always	-	3730
193	Load_Cycle_Count	0x0012	097	097	000	Old_age	Always	-	3730
194	Temperature_Celsius	0x0002	222	222	000	Old_age	Always	-	27 (Min/Max
20/56)									
196	Reallocated_Event_Count	0x0032	100	100	000	Old_age	Always	-	0
197	Current_Pending_Sector	0x0022	100	100	000	Old_age	Always	-	0
198	Offline_Uncorrectable	0x0008	100	100	000	Old_age	Offline	-	0
199	UDMA_CRC_Error_Count	0x000a	200	200	000	Old_age	Always	-	0

SMART Error Log Version: 1

No Errors Logged

SMART Self-test log structure revision number 1

Num	Test_Description	Status	Remaining	LifeTime(hours)	LBA_of_first_error
# 1	Extended offline	Completed without error	00%	33618	-
# 2	Extended offline	Interrupted (host reset)	90%	33599	-
# 3	Extended offline	Interrupted (host reset)	80%	33594	-
# 4	Extended offline	Completed without error	00%	33572	-
# 5	Extended offline	Completed without error	00%	33548	-
# 6	Extended offline	Completed without error	00%	33524	-
# 7	Extended offline	Completed without error	00%	33500	-
# 8	Extended offline	Completed without error	00%	33476	-
# 9	Extended offline	Completed without error	00%	33452	-
#10	Extended offline	Completed without error	00%	33428	-
#11	Extended offline	Completed without error	00%	33404	-
#12	Extended offline	Completed without error	00%	33380	-
#13	Extended offline	Completed without error	00%	33356	-
#14	Extended offline	Completed without error	00%	33332	-
#15	Extended offline	Completed without error	00%	33308	-
#16	Extended offline	Completed without error	00%	33284	-
#17	Extended offline	Completed without error	00%	33260	-
#18	Extended offline	Completed without error	00%	33218	-
#19	Extended offline	Completed without error	00%	33188	-
#20	Extended offline	Completed without error	00%	33147	-
#21	Extended offline	Completed without error	00%	33116	-

SMART Selective self-test log data structure revision number 1

SPAN	MIN_LBA	MAX_LBA	CURRENT_TEST_STATUS
1	0	0	Not_testing
2	0	0	Not_testing
3	0	0	Not_testing
4	0	0	Not_testing
5	0	0	Not_testing

Selective self-test flags (0x0):

After scanning selected spans, do NOT read-scan remainder of disk.
 If Selective self-test is pending on power-up, resume after 0 minute delay.

XXX@YYY:~ # smartctl /dev/da9 -a
smartctl 7.2 2021-09-14 r5236 [FreeBSD 13.1-RELEASE-p2 amd64] (local build)
Copyright (C) 2002-20, Bruce Allen, Christian Franke, www.smartmontools.org

=== START OF INFORMATION SECTION ===

Model Family: HGST Ultrastar He10
Device Model: HGST HUH721010ALE600
Serial Number: 2TH7DTAD
LU WWN Device Id: 5 000cca 26ad17618
Firmware Version: LHGNT384
User Capacity: 10,000,831,348,736 bytes [10.0 TB]
Sector Sizes: 512 bytes logical, 4096 bytes physical
Rotation Rate: 7200 rpm
Form Factor: 3.5 inches
Device is: In smartctl database [for details use: -P show]
ATA Version is: ACS-2, ATA8-ACS T13/1699-D revision 4
SATA Version is: SATA 3.2, 6.0 Gb/s (current: 6.0 Gb/s)
Local Time is: Tue Mar 7 17:01:51 2023 EST
SMART support is: Available - device has SMART capability.
SMART support is: Enabled

=== START OF READ SMART DATA SECTION ===

SMART overall-health self-assessment test result: PASSED

General SMART Values:

Offline data collection status: (0x82) Offline data collection activity
was completed without error.
Auto Offline Data Collection: Enabled.
Self-test execution status: (0) The previous self-test routine completed
without error or no self-test has ever
been run.
Total time to complete Offline
data collection: (93) seconds.
Offline data collection
capabilities: (0x5b) SMART execute Offline immediate.
Auto Offline data collection on/off support.
Suspend Offline collection upon new
command.
Offline surface scan supported.
Self-test supported.
No Conveyance Self-test supported.
Selective Self-test supported.
SMART capabilities: (0x0003) Saves SMART data before entering
power-saving mode.
Supports SMART auto save timer.
Error logging capability: (0x01) Error logging supported.
General Purpose Logging supported.
Short self-test routine
recommended polling time: (2) minutes.
Extended self-test routine
recommended polling time: (1124) minutes.
SCT capabilities: (0x003d) SCT Status supported.
SCT Error Recovery Control supported.
SCT Feature Control supported.
SCT Data Table supported.

SMART Attributes Data Structure revision number: 16

Vendor Specific SMART Attributes with Thresholds:

ID#	ATTRIBUTE_NAME	FLAG	VALUE	WORST	THRESH	TYPE	UPDATED	WHEN_FAILED	RAW_VALUE
1	Raw_Read_Error_Rate	0x000b	100	100	016	Pre-fail	Always	-	0
2	Throughput_Performance	0x0005	134	134	054	Pre-fail	Offline	-	96
3	Spin_Up_Time	0x0007	172	172	024	Pre-fail	Always	-	363 (Average
402)									
4	Start_Stop_Count	0x0012	100	100	000	Old_age	Always	-	404
5	Reallocated_Sector_Ct	0x0033	100	100	005	Pre-fail	Always	-	0
7	Seek_Error_Rate	0x000b	100	100	067	Pre-fail	Always	-	0
8	Seek_Time_Performance	0x0005	128	128	020	Pre-fail	Offline	-	18
9	Power_On_Hours	0x0012	096	096	000	Old_age	Always	-	33621
10	Spin_Retry_Count	0x0013	100	100	060	Pre-fail	Always	-	0
12	Power_Cycle_Count	0x0032	100	100	000	Old_age	Always	-	404
22	Helium_Level	0x0023	100	100	025	Pre-fail	Always	-	100
192	Power-Off_Retract_Count	0x0032	097	097	000	Old_age	Always	-	3710
193	Load_Cycle_Count	0x0012	097	097	000	Old_age	Always	-	3710
194	Temperature_Celsius	0x0002	214	214	000	Old_age	Always	-	28 (Min/Max
20/56)									
196	Reallocated_Event_Count	0x0032	100	100	000	Old_age	Always	-	0

197	Current_Pending_Sector	0x0022	100	100	000	Old_age	Always	-	0
198	Offline_Uncorrectable	0x0008	100	100	000	Old_age	Offline	-	0
199	UDMA_CRC_Error_Count	0x000a	200	200	000	Old_age	Always	-	0

SMART Error Log Version: 1
No Errors Logged

SMART Self-test log structure revision number 1

Num	Test_Description	Status	Remaining	LifeTime(hours)	LBA_of_first_error
# 1	Extended offline	Completed without error	00%	33619	-
# 2	Extended offline	Interrupted (host reset)	90%	33599	-
# 3	Extended offline	Interrupted (host reset)	80%	33594	-
# 4	Extended offline	Completed without error	00%	33572	-
# 5	Extended offline	Completed without error	00%	33548	-
# 6	Extended offline	Completed without error	00%	33524	-
# 7	Extended offline	Completed without error	00%	33500	-
# 8	Extended offline	Completed without error	00%	33476	-
# 9	Extended offline	Completed without error	00%	33452	-
#10	Extended offline	Completed without error	00%	33428	-
#11	Extended offline	Completed without error	00%	33404	-
#12	Extended offline	Completed without error	00%	33380	-
#13	Extended offline	Completed without error	00%	33356	-
#14	Extended offline	Completed without error	00%	33332	-
#15	Extended offline	Completed without error	00%	33308	-
#16	Extended offline	Completed without error	00%	33284	-
#17	Extended offline	Completed without error	00%	33260	-
#18	Extended offline	Completed without error	00%	33236	-
#19	Extended offline	Completed without error	00%	33212	-
#20	Extended offline	Completed without error	00%	33188	-
#21	Extended offline	Completed without error	00%	33147	-

SMART Selective self-test log data structure revision number 1

SPAN	MIN_LBA	MAX_LBA	CURRENT_TEST_STATUS
1	0	0	Not_testing
2	0	0	Not_testing
3	0	0	Not_testing
4	0	0	Not_testing
5	0	0	Not_testing

Selective self-test flags (0x0):

After scanning selected spans, do NOT read-scan remainder of disk.
If Selective self-test is pending on power-up, resume after 0 minute delay.