



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.  
Surveillance-Specialised Storage



SkyHawk™ leverages Seagate's extensive experience in designing drives purpose-built for surveillance applications.



#### Best-Fit Applications

- Network video recorders (NVR)
- Video DVRs



SKYHAWK  
HEALTH



## Key Advantages

**ImagePerfect™ firmware** is designed to ensure seamless video footage capture in 24x7 surveillance workloads<sup>1</sup> that record video from 64 HD cameras.

**SkyHawk Health Management** actively helps protect your surveillance storage by focusing on prevention, intervention, and recovery options.<sup>2</sup> Included is RAID RapidRebuild™, which provides 3x faster volume rebuilds over traditional RAID rebuilds.

**Unparalleled data protection** with included 3-year Rescue Data Recovery Services plan, helping protect important video data with Seagate's in-house data recovery services.

**RV sensors built in** allow drives to maintain performance in multi-bay systems, giving customers the flexibility to scale their systems when more storage is needed.

**ATA streaming support** enables recordings from up to 64 HD cameras for smooth, uninterrupted footage.

**1 M hours MTBF, 3-year limited warranty<sup>3</sup>** represents an improved total cost of ownership (TCO) with reduced maintenance costs.

**Lower power consumption** means a reduction in heat emissions, which improves reliability in surveillance solutions. Tarnish-resistant components help protect drive from environmental elements, increasing field reliability.

<sup>1</sup> SkyHawk video drives are designed for always-on workloads of 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

<sup>2</sup> Contact your Seagate sales representative for further information.

<sup>3</sup> Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce the useful life of the products.



| Specifications                                     | 8 TB               | 8 TB               | 6TB                | 6 TB               |
|----------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Standard Model Numbers                             | ST8000VX010        | ST8000VX004        | ST6000VX009        | ST6000VX001        |
| SkyHawk™ Health Management Included                | Yes                | Yes                | Yes                | Yes                |
| Interface                                          | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        |
| Recording Technology                               | CMR                | CMR                | CMR                | CMR                |
| Drive Design                                       | Air                | Air                | Air                | Air                |
| Features and Performance                           |                    |                    |                    |                    |
| Drive Bays Supported                               | Up to 16           | Up to 16           | Up to 16           | Up to 16           |
| Cameras Supported                                  | Up to 64           | Up to 64           | Up to 64           | Up to 64           |
| RV Sensors                                         | Yes                | Yes                | Yes                | Yes                |
| Max Sustained Transfer Rate OD (MB/s)              | 180MB/s            | 210MB/s            | 180MB/s            | 180MB/s            |
| Cache (MB)                                         | 256                | 256                | 256                | 256                |
| Reliability/Data Integrity                         |                    |                    |                    |                    |
| Tarnish Resistant                                  | Yes                | Yes                | Yes                | Yes                |
| Load/Unload Cycles                                 | 600,000            | 600,000            | 600,000            | 600,000            |
| Non-recoverable Read Errors Rate, Max              | 1 per 10E14        | 1 per 10E15        | 1 per 10E14        | 1 per 10E14        |
| Power-On Hours per year                            | 8,760              | 8,760              | 8,760              | 8,760              |
| Workload Rate Limit (WRL) <sup>1</sup>             | 180                | 180                | 180                | 180                |
| Mean Time Between Failures (MTBF) (hours)          | 1,000,000 hr       | 1,000,000 hr       | 1,000,000 hr       | 1,000,000 hr       |
| Warranty, Limited (years) <sup>2</sup>             | 3                  | 3                  | 3                  | 3                  |
| Rescue Data Recovery Services (years) <sup>3</sup> | 3                  | 3                  | 3                  | 3                  |
| Power Management                                   |                    |                    |                    |                    |
| Startup Current, Typical (12V, A)                  | 1.8                | 1.8                | 1.8                | 1.8                |
| Average Operating Power (W)                        | 5.3 W              | 8.73 W             | 5.3 W              | 5 W                |
| Idling Average (W)                                 | 3.4 W              | 7.06 W             | 3.4 W              | 3.4 W              |
| Standby Mode/Sleep Mode, Typical (W)               | 0.25/0.25          | 0.96/0.96          | 0.25/0.25          | 0.25/0.25          |
| Voltage Tolerance (5 V)                            | ±5%                | +10/-5%            | ±5%                | ±5%                |
| Voltage Tolerance (12 V)                           | ±10%               | ±10%               | ±10%               | ±10%               |
| Environmental/Temperature                          |                    |                    |                    |                    |
| Operating (ambient, min °C)                        | 0                  | 5                  | 0                  | 0                  |
| Operating (drive reported, max °C) <sup>4</sup>    | 65                 | 70                 | 65                 | 70                 |
| Non-operating (ambient, min °C)                    | -40                | -40                | -40                | -40                |
| Physical                                           |                    |                    |                    |                    |
| Height (mm/in, max)                                | 26.1 mm/1.028 in   | 26.11 mm/1.028 in  | 26.1 mm/1.028 in   | 26.11 mm/1.028 in  |
| Width (mm/in, max)                                 | 101.6 mm/4 in      | 101.85 mm/4.01 in  | 101.6 mm/4 in      | 101.85 mm/4.01 in  |
| Depth (mm/in, max)                                 | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in |
| Weight (g/lb, typical)                             | 630 g/1.389 lb     | 716 g/1.579 lb     | 630 g/1.389 lb     | 610 g/1.345 lb     |
| Carton Unit Quantity                               | 20                 | 20                 | 20                 | 20                 |
| Cartons per Pallet / Cartons per Layer             | 40/8               | 40/8               | 40/8               | 40/8               |

1 SkyHawk surveillance drives are designed for always-on workloads of 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

2 Extended warranty options available. Consult your distributor for details.

3 From May 1, 2020, 3-year Rescue Data Recovery Services plan may be offered in addition to standard warranty. This is offered for selected regions only. Check with reseller on availability.

4 Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the products.



| Specifications                                     | 4 TB               | 4 TB               | 3TB                | 3 TB               |
|----------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Standard Model Numbers                             | ST4000VX016        | ST4000VX013        | ST3000VX015        | ST3000VX009        |
| SkyHawk™ Health Management Included                | Yes                | Yes                | Yes                | Yes                |
| Interface                                          | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        |
| Recording Technology                               | CMR                | SMR                | CMR                | CMR                |
| Drive Design                                       | Air                | Air                | Air                | Air                |
| Features and Performance                           |                    |                    |                    |                    |
| Drive Bays Supported                               | Up to 16           | Up to 16           | Up to 8            | Up to 8            |
| Cameras Supported                                  | Up to 64           | Up to 64           | Up to 64           | Up to 64           |
| RV Sensors                                         | Yes                | Yes                | Yes                | —                  |
| Max Sustained Transfer Rate OD (MB/s)              | 180MB/s            | 180MB/s            | 180MB/s            | 180MB/s            |
| Cache (MB)                                         | 256                | 256                | 256                | 256                |
| Reliability/Data Integrity                         |                    |                    |                    |                    |
| Tarnish Resistant                                  | Yes                | Yes                | Yes                | Yes                |
| Load/Unload Cycles                                 | 600,000            | 600,000            | 600,000            | 600,000            |
| Non-recoverable Read Errors Rate, Max              | 1 per 10E14        | 1 per 10E14        | 1 per 10E14        | 1 per 10E14        |
| Power-On Hours per year                            | 8,760              | 8,760              | 8,760              | 8,760              |
| Workload Rate Limit (WRL) <sup>1</sup>             | 180                | 180                | 180                | 180                |
| Mean Time Between Failures (MTBF) (hours)          | 1,000,000 hr       | 1,000,000 hr       | 1,000,000 hr       | 1,000,000 hr       |
| Warranty, Limited (years) <sup>2</sup>             | 3                  | 3                  | 3                  | 3                  |
| Rescue Data Recovery Services (years) <sup>3</sup> | 3                  | 3                  | 3                  | 3                  |
| Power Management                                   |                    |                    |                    |                    |
| Startup Current, Typical (12V, A)                  | 1.8                | 1.8                | 1.8                | 1.8                |
| Average Operating Power (W)                        | 3.7 W              | 3.7 W              | 3.7 W              | 3.5 W              |
| Idling Average (W)                                 | 2.5 W              | 2.5 W              | 2.5 W              | 2.5 W              |
| Standby Mode/Sleep Mode, Typical (W)               | 0.25/0.25          | 0.25/0.25          | 0.25/0.25          | 0.25/0.25          |
| Voltage Tolerance (5 V)                            | ±5%                | ±5%                | ±5%                | ±5%                |
| Voltage Tolerance (12 V)                           | ±10%               | ±10%               | ±10%               | ±10%               |
| Environmental/Temperature                          |                    |                    |                    |                    |
| Operating (ambient, min °C)                        | 0                  | 0                  | 0                  | 0                  |
| Operating (drive reported, max °C) <sup>4</sup>    | 65                 | 70                 | 65                 | 70                 |
| Non-operating (ambient, min °C)                    | -40                | -40                | -40                | -40                |
| Physical                                           |                    |                    |                    |                    |
| Height (mm/in, max)                                | 20.2 mm/0.795 in   | 20.2 mm/0.795 in   | 20.2 mm/0.795 in   | 20.2 mm/0.795 in   |
| Width (mm/in, max)                                 | 101.6 mm/4 in      | 101.85 mm/4.01 in  | 101.6 mm/4 in      | 101.85 mm/4.01 in  |
| Depth (mm/in, max)                                 | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in |
| Weight (g/lb, typical)                             | 630 g/1.389 lb     | 490 g/1.08 lb      | 630 g/1.389 lb     | 490 g/1.08 lb      |
| Carton Unit Quantity                               | 25                 | 25                 | 25                 | 25                 |
| Cartons per Pallet / Cartons per Layer             | 40/8               | 40/8               | 40/8               | 40/8               |

1 SkyHawk surveillance drives are designed for always-on workloads of 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

2 Extended warranty options available. Consult your distributor for details.

3 From May 1, 2020, 3-year Rescue Data Recovery Services plan may be offered in addition to standard warranty. This is offered for selected regions only. Check with reseller on availability.

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| Specifications                                     | 2TB                | 2 TB               | 2 TB               | 1 TB               | 1TB                |
|----------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Standard Model Numbers                             | ST2000VX017        | ST2000VX015        | ST2000VX008        | ST1000VX013        | ST1000VX005        |
| SkyHawk™ Health Management Included                | Yes                | —                  | —                  | Yes                | —                  |
| Interface                                          | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        |
| Recording Technology                               | CMR                | SMR                | CMR                | CMR                | CMR                |
| Drive Design                                       | Air                | Air                | Air                | Air                | Air                |
| Features and Performance                           |                    |                    |                    |                    |                    |
| Drive Bays Supported                               | Up to 8            | Up to 8            | Up to 8            | Up to 8            | Up to 8            |
| Cameras Supported                                  | Up to 64           | Up to 64           | Up to 64           | Up to 64           | Up to 64           |
| RV Sensors                                         | —                  | —                  | —                  | —                  | —                  |
| Max Sustained Transfer Rate OD (MB/s)              | 180MB/s            | 180MB/s            | 180MB/s            | 180MB/s            | 180MB/s            |
| Cache (MB)                                         | 256                | 256                | 64                 | 256                | 64                 |
| Reliability/Data Integrity                         |                    |                    |                    |                    |                    |
| Tarnish Resistant                                  | Yes                | Yes                | Yes                | Yes                | Yes                |
| Load/Unload Cycles                                 | 600,000            | 600,000            | 300,000            | 600,000            | —                  |
| Non-recoverable Read Errors Rate, Max              | 1 per 10E14        | 1 per 10E14        | 1 per 10E14        | 1 per 10E14        | 1 per 10E14        |
| Power-On Hours per year                            | 8,760              | 8,760              | 8,760              | 8,760              | 8,760              |
| Workload Rate Limit (WRL) <sup>1</sup>             | 180                | 180                | 180                | 180                | 180                |
| Mean Time Between Failures (MTBF) (hours)          | 1,000,000 hr       | 1,000,000 hr       | 1,000,000 hr       | 1,000,000 hr       | 1,000,000 hr       |
| Warranty, Limited (years) <sup>2</sup>             | 3                  | 3                  | 3                  | 3                  | 3                  |
| Rescue Data Recovery Services (years) <sup>3</sup> | 3                  | 3                  | 3                  | —                  | —                  |
| Power Management                                   |                    |                    |                    |                    |                    |
| Startup Current, Typical (12V, A)                  | 1.8                | 1.8                | 1.8                | 1.8                | 1.8                |
| Average Operating Power (W)                        | 3.7 W              | 3.7 W              | 5.6 W              | 3.7 W              | 5.6 W              |
| Idling Average (W)                                 | 2.5 W              | 2.5 W              | 4 W                | 2.5 W              | 4 W                |
| Standby Mode/Sleep Mode, Typical (W)               | 0.25/0.25          | 0.25/0.25          | 0.5/0.5            | 0.25/0.25          | 0.5/0.5            |
| Voltage Tolerance (5 V)                            | ±5%                | ±5%                | ±5%                | ±5%                | ±5%                |
| Voltage Tolerance (12 V)                           | ±10%               | ±10%               | ±10%               | ±10%               | ±10%               |
| Environmental/Temperature                          |                    |                    |                    |                    |                    |
| Operating (ambient, min °C)                        | 0                  | 0                  | 0                  | 0                  | 0                  |
| Operating (drive reported, max °C) <sup>4</sup>    | 65                 | 70                 | 70                 | 65                 | 70                 |
| Non-operating (ambient, min °C)                    | -40                | -40                | -40                | -40                | -40                |
| Physical                                           |                    |                    |                    |                    |                    |
| Height (mm/in, max)                                | 20.2 mm/0.795 in   | 20.2 mm/0.795 in   | 26.11 mm/1.028 in  | 20.2 mm/0.795 in   | 20.2 mm/0.795 in   |
| Width (mm/in, max)                                 | 101.6 mm/4 in      | 101.85 mm/4.01 in  | 101.85 mm/4.01 in  | 101.6 mm/4 in      | 101.85 mm/4.01 in  |
| Depth (mm/in, max)                                 | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in |
| Weight (g/lb, typical)                             | 415 g/0.915 lb     | 415 g/0.915 lb     | 610 g/1.345 lb     | 415 g/0.915 lb     | 415 g/0.915 lb     |
| Carton Unit Quantity                               | 25                 | 25                 | 20                 | 25                 | 25                 |
| Cartons per Pallet / Cartons per Layer             | 40/8               | 40/8               | 40/8               | 40/8               | 40/8               |

1 SkyHawk surveillance drives are designed for always-on workloads of 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

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