



3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.  
Surveillance-Specialized 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.

**1M 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 180TB/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 useful life of the products.



| Specifications                                     | 8TB              | 8TB              | 6TB              | 6TB              |
|----------------------------------------------------|------------------|------------------|------------------|------------------|
| Standard Model Numbers                             | ST8000VX010      | ST8000VX004      | ST6000VX009      | ST6000VX001      |
| SkyHawk™ Health Management Included                | Yes              | Yes              | Yes              | Yes              |
| Interface                                          | SATA 6Gb/s       | SATA 6Gb/s       | SATA 6Gb/s       | SATA 6Gb/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              | —                |
| 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          |
| Nonrecoverable Read Errors Rate, Max               | 1 per 10E14      | 1 per 10E15      | 1 per 10E14      | 1 per 10E14      |
| Power-On Hours per year                            | 8760             | 8760             | 8760             | 8760             |
| Workload Rate Limit (WRL) <sup>1</sup>             | 180              | 180              | 180              | 180              |
| Mean Time Between Failures (MTBF) (hours)          | 1,000,000hr      | 1,000,000hr      | 1,000,000hr      | 1,000,000hr      |
| 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)                        | 5.3W             | 8.73W            | 5.3W             | 5.0W             |
| Idle Average (W)                                   | 3.4W             | 7.06W            | 3.4W             | 3.4W             |
| Standby Mode/Sleep Mode, Typical (W)               | 0.25/0.25        | 0.96/0.96        | 0.25/0.25        | 0.25/0.25        |
| Voltage Tolerance (5V)                             | ±5%              | +10/-5%          | ±5%              | ±5%              |
| Voltage Tolerance (12V)                            | ±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               |
| Nonoperating (ambient, min °C)                     | -40              | -40              | -40              | -40              |
| Physical                                           |                  |                  |                  |                  |
| Height (mm/in, max)                                | 26.1mm/1.028in   | 26.1mm/1.028in   | 26.1mm/1.028in   | 26.1mm/1.028in   |
| Width (mm/in, max)                                 | 101.6mm/4.00in   | 101.85mm/4.010in | 101.6mm/4.00in   | 101.85mm/4.01in  |
| Depth (mm/in, max)                                 | 146.99mm/5.787in | 146.99mm/5.787in | 146.99mm/5.787in | 146.99mm/5.787in |
| Weight (g/lb, typical)                             | 630g/1.389lb     | 716g/1.579lb     | 630g/1.389lb     | 610g/1.345lb     |
| 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 180TB/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                                     | 4TB              | 4TB              | 3TB              | 3TB              |
|----------------------------------------------------|------------------|------------------|------------------|------------------|
| Standard Model Numbers                             | ST4000VX016      | ST4000VX013      | ST3000VX015      | ST3000VX009      |
| SkyHawk™ Health Management Included                | Yes              | Yes              | Yes              | —                |
| Interface                                          | SATA 6Gb/s       | SATA 6Gb/s       | SATA 6Gb/s       | SATA 6Gb/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              | —                | —                | —                |
| 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          |
| Nonrecoverable Read Errors Rate, Max               | 1 per 10E14      | 1 per 10E14      | 1 per 10E14      | 1 per 10E14      |
| Power-On Hours per year                            | 8760             | 8760             | 8760             | 8760             |
| Workload Rate Limit (WRL) <sup>1</sup>             | 180              | 180              | 180              | 180              |
| Mean Time Between Failures (MTBF) (hours)          | 1,000,000hr      | 1,000,000hr      | 1,000,000hr      | 1,000,000hr      |
| 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)                        | 3.7W             | 3.7W             | 3.7W             | 3.5W             |
| Idle Average (W)                                   | 2.5W             | 2.5W             | 2.5W             | 2.5W             |
| Standby Mode/Sleep Mode, Typical (W)               | 0.25/0.25        | 0.25/0.25        | 0.25/0.25        | 0.25/0.25        |
| Voltage Tolerance (5V)                             | ±5%              | ±5%              | ±5%              | ±5%              |
| Voltage Tolerance (12V)                            | ±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               |
| Nonoperating (ambient, min °C)                     | -40              | -40              | -40              | -40              |
| Physical                                           |                  |                  |                  |                  |
| Height (mm/in, max)                                | 20.20mm/0.795in  | 20.20mm/0.795in  | 20.20mm/0.795in  | 20.20mm/0.795in  |
| Width (mm/in, max)                                 | 101.6mm/4.0in    | 101.85mm/4.010in | 101.6mm/4.0in    | 101.85mm/4.01in  |
| Depth (mm/in, max)                                 | 146.99mm/5.787in | 146.99mm/5.787in | 146.99mm/5.787in | 146.99mm/5.787in |
| Weight (g/lb, typical)                             | 630g/1.389lb     | 490g/1.08lb      | 630g/1.389lb     | 490g/1.08lb      |
| 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 180TB/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              | 2TB              | 2TB              | 1TB              | 1TB              |
|----------------------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Standard Model Numbers                             | ST2000VX017      | ST2000VX015      | ST2000VX008      | ST1000VX013      | ST1000VX005      |
| SkyHawk™ Health Management Included                | Yes              | —                | —                | Yes              | —                |
| Interface                                          | SATA 6Gb/s       | SATA 6Gb/s       | SATA 6Gb/s       | SATA 6Gb/s       | SATA 6Gb/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          | —                |
| Nonrecoverable Read Errors Rate, Max               | 1 per 10E14      | 1 per 10E14      | 1 per 10E14      | 1 per 10E14      | 1 per 10E14      |
| Power-On Hours per year                            | 8760             | 8760             | 8760             | 8760             | 8760             |
| Workload Rate Limit (WRL) <sup>1</sup>             | 180              | 180              | 180              | 180              | 180              |
| Mean Time Between Failures (MTBF) (hours)          | 1,000,000hr      | 1,000,000hr      | 1,000,000hr      | 1,000,000hr      | 1,000,000hr      |
| 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)                        | 3.7W             | 3.7W             | 5.6W             | 3.7W             | 5.6W             |
| Idle Average (W)                                   | 2.5W             | 2.5W             | 4.0W             | 2.5W             | 4.0W             |
| 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 (5V)                             | ±5%              | ±5%              | ±5%              | ±5%              | ±5%              |
| Voltage Tolerance (12V)                            | ±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               |
| Nonoperating (ambient, min °C)                     | -40              | -40              | -40              | -40              | -40              |
| Physical                                           |                  |                  |                  |                  |                  |
| Height (mm/in, max)                                | 20.20mm/0.795in  | 20.20mm/0.795in  | 26.11mm/1.028in  | 20.20mm/0.795in  | 20.20mm/0.795in  |
| Width (mm/in, max)                                 | 101.6mm/4.00in   | 101.85mm/4.01in  | 101.85mm/4.01in  | 101.6mm/4.00in   | 101.85mm/4.01in  |
| Depth (mm/in, max)                                 | 146.99mm/5.787in | 146.99mm/5.787in | 146.99mm/5.787in | 146.99mm/5.787in | 146.99mm/5.787in |
| Weight (g/lb, typical)                             | 415g/0.915lb     | 415g/0.915lb     | 610g/1.345lb     | 415g/0.915lb     | 415g/0.915lb     |
| Carton Unit Quantity                               | 25               | 25               | 20               | 25               | 25               |
| Cartons per Pallet/Cartons per Layer               | 40/8             | 40/8             | 40/8             | 40/8             | 40/8             |

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