In the digital content creation industry, many professionals have been looking for long-term reliable storage for huge volumes of media assets. Archiving ever-increasing data is very important to protect your valuable assets and to free up primary storage space. However, most comprehensive solutions require considerable time, money or both.

To satisfy this need, Sony is pleased to introduce a newly developed Optical Disc Archive system. Using this system, helps provide long-term data retention of your valuable media assets in a way that is simple and affordable. Moreover, the Optical Disc Archive system is resilient and virtually eliminates the need for ongoing copy migration. This reduces unnecessary management costs, equipment costs and energy while minimizing waste material. By using the Optical Disc Archive system you contribute to conserving global resources while preserving your media assets. Since this system saves you time and money, you can focus more of your professional hours and resources on new content creation. In addition, the Optical Disc Archive platform is open to participation within the media archive community and our industry-wide alliance partners. We encourage collaboration to learn more about your needs to further improve usability.
Advantages of Optical Disc Archive System

Long Archival Life
Digital photographs, digitized video, audio recordings, corporate records and government documents are just a few of the valuable digital assets that organizations want to preserve for years, if not forever. Since the Optical Disc Archive system is extremely robust with an average media life estimated beyond 50* years, your data is protected for the long term. In addition to media longevity, generational backward compatibility is proven as far back as the 1980’s as CD’s remain compatible today with the latest Blu-ray players. This trend is expected to continue in the future with the Optical Disc Archive system, allowing future Optical Disc Archive drive generations to be backward read compatible.

* Estimated from Sony accelerated test.

High Reliability
By its nature, optical disc is highly durable and resilient in a wide range of environmental conditions. Its simple structure and media robustness make it ideal for archival storage and material exchange. The Optical Disc Archive system takes reliability to the next level:
- Using write once (R) cartridge media prevents accidentally or unauthorized changes to data to meet data authenticity requirements.
- Write Verify mode ensures data is archived accurately for future data restore.
- Non-contact random access recording technology, ultra high read count and protective cartridge shell is ideal for data portability and preservation.
- The utility “Roll Back” function allows deleted files to be restored.

Open Platform
Optical Disc Archive system is an open platform architecture that incorporates Universal Disk Format (UDF) and other vendor-neutral standards. Sony has established alliances with industry partners with plans to promote further utilization and enhancement of the technology through collaboration and multi-sourcing of key components.

Eco-friendly Design
As environmental conditions continue to be a concern, many organizations strive to reduce their carbon footprint. In today’s content creation industry, one practical way to save on energy is to archive infrequently used files to a low power storage system with long term term archival capability. The Optical Disc Archive system enables practical management of your ever-increasing media assets with minimal environmental burden. It greatly reduces waste by not using power when data is sitting idle, by avoiding frequent data migration and cuts energy consumption required to control temperature and humidity, thus contributing to reduce CO2 emissions. All in all, this system can help address your green energy initiatives while preserving your valuable assets.

Low Total Cost of Ownership
There are several factors that contribute to the rising costs associated with data archival and preservation. To keep costs at a minimum, the Optical Disc Archive system incorporates a vendor-neutral optical drive that requires no special software to access data. When combined with its highly durable large capacity media and companion management application (Content Manager), maintaining your valuable digital assets for the long term is simple and affordable. Longevity, resilience to a wide range of environmental conditions, low power consumption and virtually migration free media make the Optical Disc Archive system a great choice to keep the total cost of ownership under control.

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Power Consumption Simulation over 10 Years

<table>
<thead>
<tr>
<th>Removable Media</th>
<th>HDD</th>
<th>Optical Disc</th>
<th>Data Tape</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Idle</strong></td>
<td>0 kWh</td>
<td>26,280 kWh</td>
<td>10,000 kWh</td>
</tr>
<tr>
<td><strong>Read/Write</strong></td>
<td>1 kWh&lt;sup&gt;1&lt;/sup&gt;</td>
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</tr>
</tbody>
</table>

<sup>1</sup> It consumes 20 watts to read/write. In this example, you use 5 hours (0.5 hours x 10 times) per year for 10 years.

<sup>2</sup> A 2 TB HDD consumes 6 watts when idle. In this example, you use 50 HDDs for 24 hours over 10 years.

<sup>*1</sup> Optimum storage temperature

Hypothetical scenario:
In Tokyo, data tapes need air conditioning (AC) for a whole year, consuming 25,000 kWh over 10 years. Optical discs only need AC for three summer months, consuming only 10,000 kWh over 10 years.
Sample Applications

Shelf Archiving
You can archive ever-increasing media assets in shelves with long-life, large-capacity media.

Backup of Recorded Materials
You can re-use expensive recording media by transferring recorded materials to large-capacity, affordable archival media.

Portable Media
Easily share content between users working in different operating systems, using different software and in different locations. Optical Disc Archive cartridge media is well suited for transportation in extreme conditions.

Storage for a Wide Variety of Files
You can consolidate and store all your project files of any format, using large-capacity cartridge media.

Cartridge Line-up

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Capacity</th>
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</thead>
<tbody>
<tr>
<td>ODC300R</td>
<td>300 GB</td>
<td>Write-once</td>
</tr>
<tr>
<td>ODC300RE</td>
<td></td>
<td>Rewritable</td>
</tr>
<tr>
<td>ODC600R</td>
<td>600 GB</td>
<td>Write-once</td>
</tr>
<tr>
<td>ODC600RE</td>
<td></td>
<td>Rewritable</td>
</tr>
<tr>
<td>ODC1200RE</td>
<td>1.2 TB</td>
<td>Rewritable</td>
</tr>
<tr>
<td>ODC1500R</td>
<td>1.5 TB</td>
<td>Write-once</td>
</tr>
</tbody>
</table>
Easy Setup
A standard USB 3.0 interface allows easy connection to either a Microsoft® Windows® PC or Apple® Macintosh®. Once driver software is installed, this enables users to drag and drop files directly to the cartridge, just as if it was a conventional USB external drive. Users can easily restore data by simply inserting the cartridge, browsing the list of contents and drag the required file or folder to the designated location.

Flexibility
Combined with portable cartridge media, this external drive unit can be used as external storage. Several cartridge types with different capacities are available to meet your production and long-term archival needs. In addition, the system accepts most types of data files and allows fast random access.

Extended Reliability
Functions such as Write-verify, Rollback, and Recover File are provided to improve reliability.

Simple Management
Simple management software (Content Manager) is supplied with the drive for stand-alone usage. It has a simple graphical user interface to help manage files easily and support troublesome tasks, including, creating metadata and printing labels to help improve the efficiency of your asset management.

Specifications

**ODS-D55U**

**General**
- Power Requirements: 12 V DC (AC adaptor supplied)
- Power Consumption: 20 W (Average)
- Operating Temperature: 41°F to 104°F (5°C to 40°C)
- Storage Temperature: -68°F to +140°F (-55°C to +60°C)
- Weight: 8 lb 13 oz (4.0 kg)
- Dimensions (W x H x D): 5 3/4 x 3 3/8 x 15 3/4 inches (146 x 84 x 398 mm) (excluding protrusions)

**Input/Output**
- USB: SuperSpeed USB (USB3.0)

**Transfer Speed**
- Read: 330 Mbps
- Write*: 210 Mbps (R), 110 Mbps (RE)

**Supplied Accessories**
- AC adaptor (1), USB3.0 cable (1), Operation Manual (1), Operation Manual (CD ROM) (1)

* Write performance is halved in write-verify mode.