ODS-D55U
Optical Disc Archive Drive Unit

ODC300R/ODC300RE/ODC600R/ ODC600RE/ODC1200RE/ODC1500R
Optical Disc Archive Cartridge

Keep It Simple, Secure & Long-term

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 because these assets may become incredibly valuable in future. However, until now there has been no perfect solution for large archives, unless you are prepared to spend considerable time, money or both.

To satisfy this need, Sony is pleased to introduce a newly developed Optical Disc Archive system. Using this system, you ensure long-term preservation of your valuable media assets in a way that is simple, affordable, and eco-friendly. Because this system saves you time and money, you can spend more of your professional hours and resources on new content creation. Moreover, you can contribute to preserving the global environment while preserving your assets with the system. In addition, we make this platform open to partners to learn more about their needs and to further improve the usability of the system through industry-wide collaboration.

Optical Disc Archive

Advantages of Optical Disc Archive System

Long Archival Life

Optical disc technology is extremely robust and average media life is estimated at around 50 years, which is substantially longer than other storage media on the market. It also guarantees intergenerational compatibility, which reduces future media consumption and the risk of data corruption associated with frequent data migration.

High Reliability

By its nature, optical disc is highly durable and resilient in a wide range of environmental conditions. The simple structure and the robustness of the media make it ideal for shelf archiving and material exchange. Furthermore, since this system doesn't require frequent data migration, you can protect your valuable data from corruption which can typically occur during data migration. The drive comes with functions to verify written data and recover from various errors such as file read/write or mount errors, or lost files.

Low Total Cost of Ownership

To keep the cost of media asset management at a minimum, we make this system simple, affordable, and eco-friendly. Moreover, with its longevity and generational compatibility, coupled with low power consumption and a wide range of acceptable storage conditions, the Optical Disc Archive system greatly reduces the total cost of ownership.
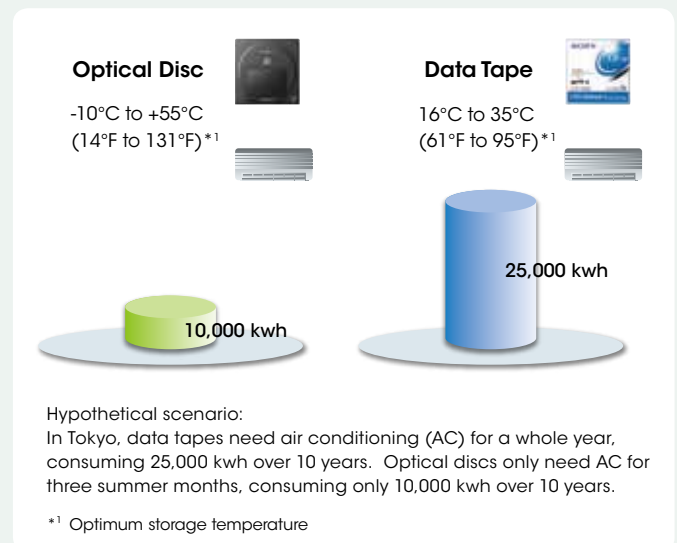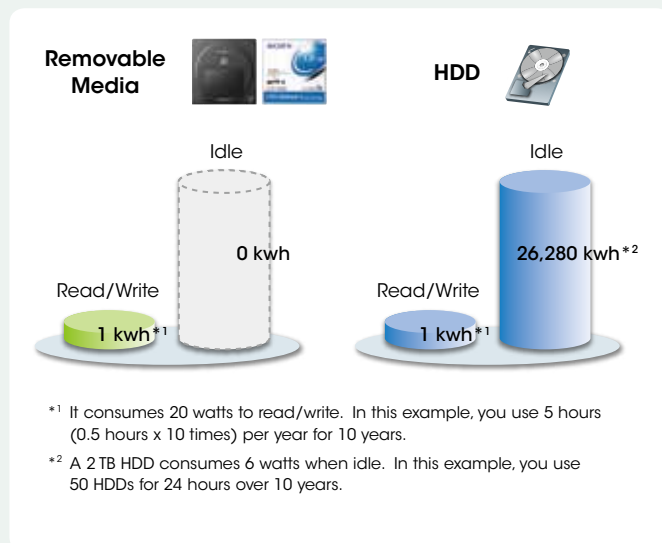
Open Platform

We make the platform open, and have established alliances with industry partners with a view to promoting further utilization of the technology and enhancing the system through collaboration and multi-sourcing of key components.

Eco-friendly Design

As the global environment has been damaged over many years, green purchasing is becoming everyone's responsibility. The Optical Disc Archive system enables ever-increasing media asset management but imposes only a minimal environmental burden. It greatly reduces the waste generated by frequent data migration, and cuts energy consumption required to control temperature and humidity, thus reducing CO_2 emissions. All in all, this system makes a great contribution to preventing global warming.

Power Consumption Simulation over 10 Years

Removable Media

Idle

0 kwh

Read/Write

1 kwh[1]

HDD

Idle

26,280 kwh[2]

Read/Write

1 kwh[1]

[1] 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.

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

Optical Disc

-10°C to +55°C
(14°F to 131°F)[1]

10,000 kwh

Data Tape

16°C to 35°C
(61°F to 95°F)[1]

25,000 kwh

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.

[1] Optimum storage temperature

Sample Applications

Shelf Archiving

You can archive ever-increasing media assets in shelves with long-life, large-capacity media.
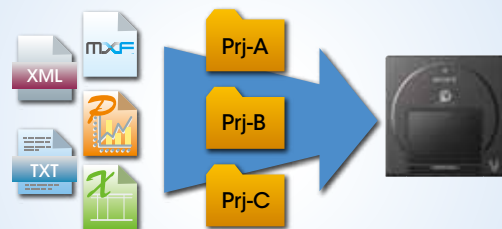
Backup of Recorded Materials

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

Material Exchange Media

You can use this cartridge media as material exchange media, especially suited for transportation in extreme conditions.

Storage for a Wide Variety of Files

You can consolidate and store all your project files in any format, using large-capacity cartridge media.

Cartridge Line-up

Model Number	Capacity	Type
ODC300R	300 GB	Write-once
ODC300RE		Rewritable
ODC600R	600 GB	Write-once
ODC600RE		Rewritable
ODC1200RE	1.2 TB	Rewritable
ODC1500R	1.5 TB	Write-once

Features of Drive Unit

Easy Setup

A standard USB3.0 interface allows easy connection to either a Microsoft Windows PC or Apple Mac.[1] Once driver software is installed on your computer, you can use the drive in the same way as a conventional external drive.

[1] Driver software for Apple Mac will be available later.

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 any type of data file and allows fast random access to data files.
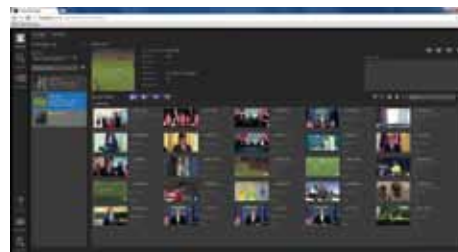
Extended Reliability

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 manage files easily, and supports troublesome tasks including creating metadata and printing labels to 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	5°C to 40°C (41°F to 104°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Mass	4.0 kg (8 lb 13 oz)
Dimensions (W x H x D)	146 x 84 x 398 mm (5 3/4 x 3 3/8 x 15 3/4 inches) (excluding protrusion)
Input/Output	
USB	Super-Speed USB (USB3.0)
Transfer Speed	
	Read: 330 Mbps Write*: 210 Mbps (WO), 110 Mbps (RE)
Supplied Accessories	
	AC adaptor (1), USB3.0 cable (1), Operation Manual (1), Operation Manual (CDROM) (1)

* Write performance is halved in write-verify mode.

Distributed by

The ODS-D55U is produced at Sony EMCS Corporation Kisarazu Site, which has received ISO14001 Environmental Management System certification.

ISO 14001
BUREAU VERITAS
Certification

MK10964V1OHB12SEP