

# Optical Disc Archive Utility

도움말

ODS-D55U  
ODS-D77U  
ODS-D280U  
ODS-D380U

# Optical Disc Archive Software 정보

## 개요

이 소프트웨어는 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 에 연결된 컴퓨터에 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 의 다음 기능을 수행할 수 있습니다 .

- 정보 표시 기능
  - 드라이브 정보
  - 미디어 정보
- 설정 정보
  - 작업 모드 설정
  - 카트리지 메모리를 사용하여 미디어에 쓰기 보호 설정
- 미디어 조작 기능
  - 롤백
  - 포맷
  - 파이널라이즈
  - 파일 복구
  - 볼륨 복제
- 유지 관리 기능
  - 펌웨어 업데이트
  - 로그 표시 및 내보내기
  - 시스템 검사

## 관련 설명서

### OPERATION MANUAL

이 설명서는 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 와 함께 제공됩니다 .

ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 및 제공된 소프트웨어를 사용하는 방법이 설명되어 있습니다 .

# 시스템 요구사항

이 소프트웨어는 다음 요구사항을 충족하는 컴퓨터 시스템이 필요합니다.

항목	요구사항
프로세서	ODS-D55U/D77U/D77UA: Intel Core 2 Duo 2.66 GHz 이상 또는 Intel Xeon 2.0 GHz 이상 ODS-D280U: 3 세대 Intel Core i5 2.5 GHz 이상 또는 Intel Xeon 2.27 GHz 이상 ODS-D380U: 6 세대 Intel Core i5 2.3 GHz 또는 Intel Xeon 2.0 GHz 이상
메모리	ODS-D55U/D77U/D77UA: 2 GB × ( 연결된 기기 수 + 1 ) 이상 ODS-D280U/D380U: 4 GB × ( 연결된 기기 수 + 1 ) 이상
설치 위치의 가용 공간	ODS-D55U/D77U/D77UA: 32 GB + 16 GB × ( 연결된 기기 수 + 1 ) 이상 ODS-D280U: 32 GB + 32 GB × ( 연결된 기기 수 + 1 ) 이상 ODS-D380U: 64 GB + 64 GB × ( 연결된 기기 수 + 1 ) 이상
운영 체제	Sony 전문가용 제품 사이트 <sup>a)</sup> 를 참조하십시오 .
기타	ODS-D55U/D77U/D77UA: 고속 USB(USB 2.0) ( 고속 USB(USB 2.0) 호스트 컨트롤러 필요 ) 초고속 USB(USB 3.2) ( 초고속 USB 호스트 컨트롤러 필요 ) ODS-D280U: 초고속 USB(USB 3.2) ( 초고속 USB 호스트 컨트롤러 필요 ) ODS-D380U: 초고속 USB 10 Gbps(USB 3.2) ( 초고속 USB 10 Gbps(USB 3.2) 호스트 컨트롤러 필요 ) 초고속 USB(USB 3.2) <sup>b)</sup> ( 초고속 USB 호스트 컨트롤러 필요 )

a) Sony 전문가용 제품 사이트

일본

<https://www.sony.jp/professional/>

일본 이외의 국가 / 지역

<https://pro.sony/product-resources/product-resources-search/>

( 페이지 하단의 [Change Country, Region or Language] 에서 지역 및 언어를 선택할 수 있습니다 . 또한 “ODS-380U” 와 같이 대상 모델명을 검색하여 해당 소프트웨어와 설명서를 다운로드할 수 있습니다 .)

b) 초고속 USB (USB 3.2) 연결로 원하는 전송 속도를 얻지 못할 수 있습니다 .

# 권장 PC 설정

Optical Disc Archive 미디어는 OS 에서 하나의 볼륨으로 인식됩니다 . 하드 디스크와 같은 랜덤 액세스 장치의 경우 액세스 효율성이 다를 수 있기 때문에 , OS 에서 예상치 않은 액세스가 있으면 읽기 / 쓰기 효율성이 떨어질 수 있습니다 .

다음 권장 PC 설정은 Optical Disc Archive 의 읽기 / 쓰기 효율성을 최대한 높이는 데 유용합니다 .

다음 설정은 Optical Disc Archive Drive 이외의 볼륨에 영향을 주기 때문에 설정 변경 시 영향에 대해 충분히 이해하시기 바랍니다 .

## 주의점

다음 단계는 OS 버전에 따라 다릅니다 .

다음은 제어판의 표시 방법이 [ 큰 아이콘 ] 으로 설정된 경우의 단계입니다 .

### 1. 자동 실행을 끄기로 설정

[ 시작 ] 버튼 > [ 제어판 ] > [ 자동 실행 ] > [ 모든 미디어 및 장치에 자동 실행 사용 ] 의 확인란 선택을 해제한 다음 [ 저장 ] 버튼을 클릭합니다 .

### 2. 탐색기의 미리 보기 표시를 끄기로 설정

[ 시작 ] 버튼 > [ 제어판 ] > [ 폴더 옵션 ] > [ 보기 ] 탭의 [ 고급 설정 ] 에서 [ 아이콘은 항상 표시하고 미리 보기는 표시하지 않음 ] 의 확인란을 선택한 다음 [ 확인 ] 버튼을 누릅니다 .

### 3. 탐색기의 세부 정보 및 미리 보기 창을 끄기로 설정

[ 탐색기 ] 를 시작하고 , [ 구성 ] 에서 [ 레이아웃 ] 을 선택한 다음 [ 세부 정보 창 ] 및 [ 미리 보기 창 ] 을 끄기로 설정합니다 .

### 4. PC 전원 설정

[ 시작 ] 버튼 > [ 제어판 ] > [ 전원 옵션 ] > [ 컴퓨터가 절전 모드로 전환되는 시간 변경 ] > [ 컴퓨터를 절전 모드로 설정 ] 을 [ 해당 없음 ] 으로 설정한 다음 [ 변경 내용 저장 ] 버튼을 클릭합니다 .

## 주의점

Optical Disc Archive 장치에 연결된 컴퓨터는 배터리 구동 방식을 권장하지 않습니다 .

### 5. USB 선택적 일시 중단을 끄기로 설정

[ 시작 ] 버튼 > [ 제어판 ] > [ 전원 옵션 ] > [ 설정 변경 ] > [ 고급 전원 관리 옵션 설정 변경 ] 의 풀다운 메뉴에서 액티브 전원 설정을 선택하고 , [ 배터리 사용 ] 및 [ USB 설정 ] 의 [ 전원 사용 ] > [ USB 선택적 절전 모드 설정 ] 을 [ 사용 안 함 ] 으로 설정한 후 [ 확인 ] 버튼을 클릭합니다 .

### 6. 자동 업데이트 기능을 끄기로 설정

[ 시작 ] 버튼 > [ 제어판 ] > [ Windows Update ] > [ 설정 변경 ] > [ 중요 업데이트 ] 를 [ 업데이트를 다운로드하지만 설치 여부는 직접 선택 ] 으로 설정한 다음 [ 확인 ] 버튼을 누릅니다 .

카트리지가 드라이브에 삽입되지 않은 경우 탐색기에 드라이브를 표시하려면 다음 설정을 수행합니다 .

기본 설정은 Windows Server 2008 R2 의 경우 켜기로 설정되어 있습니다 .

〈Windows7〉

[ 탐색기 ] > [ 구성 ] > [ 폴더 옵션 ] > [ 보기 ] 탭을 선택한 다음 , [ 컴퓨터 폴더에서 빈 드라이브 숨기기 ] 의 확인란 선택을 해제합니다 .

# Optical Disc Archive Utility 정보

## 소프트웨어 시작 및 종료

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### 시작

먼저 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 가 컴퓨터에 연결되었는지 확인하십시오 .


연결에 대한 자세한 내용은 OPERATION MANUAL 을 참조하십시오 .

이 소프트웨어를 시작하려면 다음 중 하나를 수행합니다 .

- ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 가 연결된 컴퓨터에서 [ 시작 ] 버튼을 클릭한 다음 [Sony Optical Disc Archive Software] > [Optical Disc Archive Utility] 를 선택합니다 .
- 이 소프트웨어가 설치된 폴더를 열고 [ODAUtility.exe] 를 더블 클릭합니다 .
- 이 소프트웨어를 설치할 때 바탕 화면에 바로 가기 아이콘을 생성한 경우 해당 아이콘을 더블 클릭합니다 .

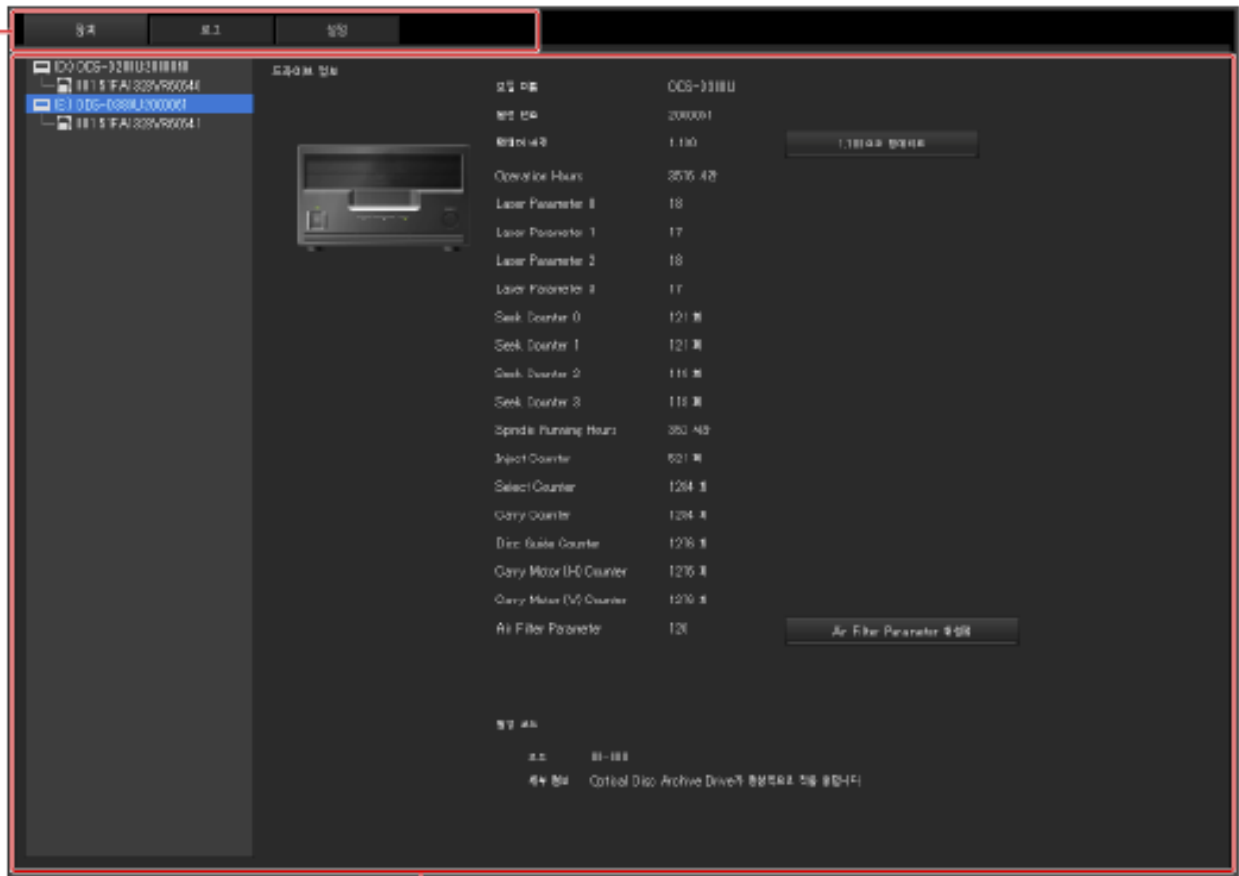
### 종료

다음 중 하나를 수행합니다 .

- 창의 오른쪽 상단 모서리에 있는  ( 닫기 ) 버튼을 클릭합니다 .
- 제목 표시줄을 오른쪽 마우스 버튼으로 클릭하고 컨텍스트 메뉴에서 [ 닫기 ] 를 선택합니다 .
- 소프트웨어가 활성화된 상태에서 Alt + F4 를 누릅니다 (Alt 키를 누른 상태로 F4 키를 누름 ) .
- 메뉴 표시줄에서 [ 보기 ] > [ 닫기 ] 를 선택합니다 .

## 화면 구성

탭



정보 표시 섹션/작동 섹션

## 메뉴 표시줄

메뉴 이름을 클릭하여 해당 메뉴의 명령을 표시합니다.

탭

장치 화면, 로그 화면 및 설정 화면이 전환됩니다.

팁

Tab 키와 커서 키를 사용하여 기능 메뉴와 메뉴 항목을 선택할 수도 있습니다. 또한 Enter 키를 사용하여 하위 메뉴를 확장하고 작업 화면을 표시할 수 있습니다.

## 정보 표시 섹션 / 작동 섹션

Tab 에서 선택한 화면이 표시됩니다.

## 메뉴 표시줄 항목

메뉴 표시줄에는 다음 메뉴와 명령이 포함됩니다.

## 보기 메뉴

### 업데이트

정보 표시 섹션 / 작동 섹션에 표시된 내용을 최신 데이터로 업데이트합니다 . 로그 화면의 로그 항목이 재정렬됩니다 .

### 닫기

이 소프트웨어의 창을 닫습니다 .

## 도구 메뉴

### 시스템 검사

Optical Disc Archive Software 가 바르게 작동되는지 확인합니다 .

EEMBC 벤치마크 소프트웨어인 CoreMark-Pro 를 사용하여 CPU 의 성능을 측정합니다 .



<http://www.eembc.org/>

#### 참고

이것이 성능을 보장하는 것은 아닙니다 .

### 파일 캐시 대상 변경

파일 캐시가 저장되는 대상을 변경합니다 .

## 도움말 메뉴

### 도움말

이 소프트웨어의 도움말 ( 이 창 ) 을 표시합니다 .

### 버전 정보

[Optical Disc Archive Software] 의 버전 정보를 표시합니다 .

## 관련 항목

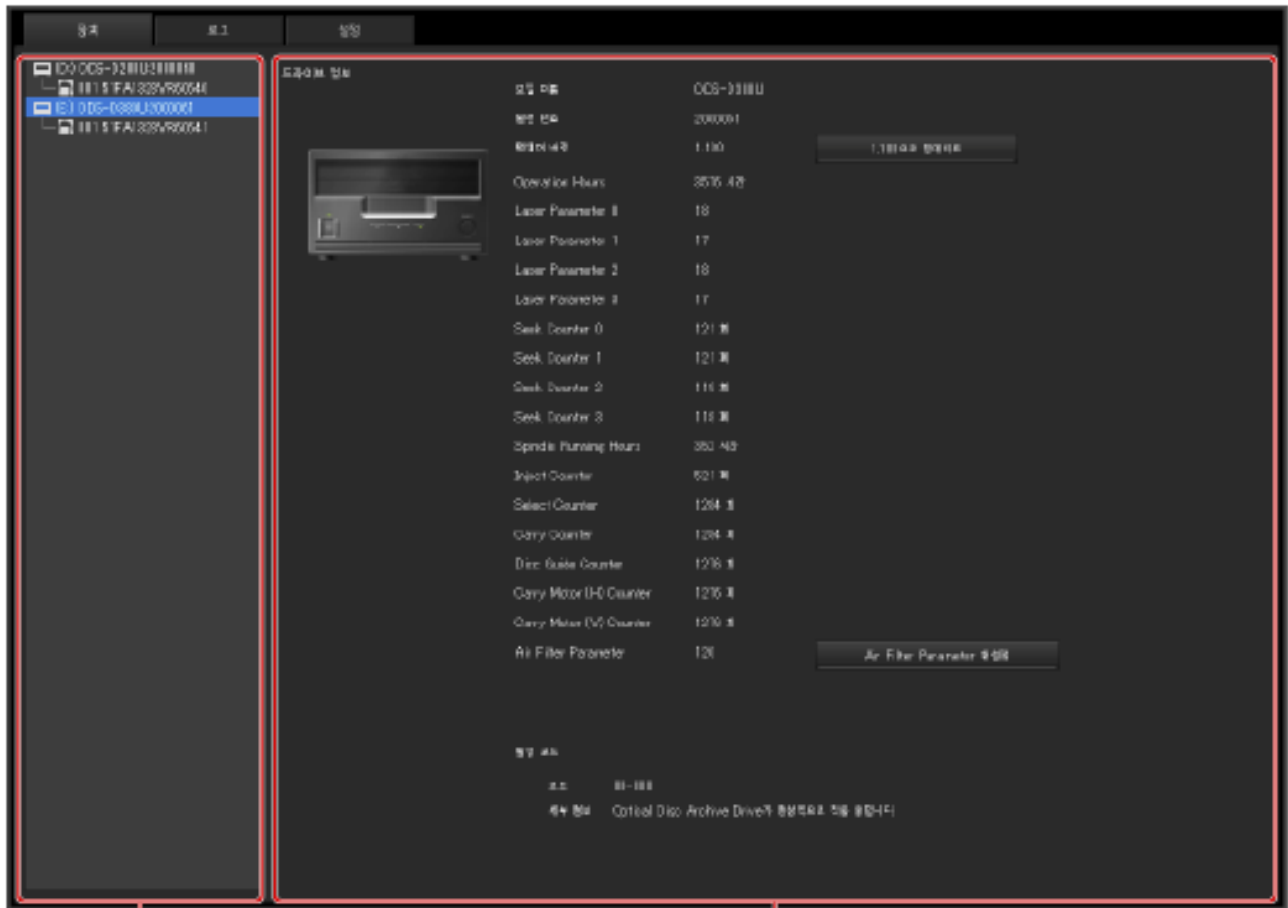
소프트웨어 시작 및 종료

# 실행 화면의 기능

## 장치 화면

### 장치 화면 - 화면 구성

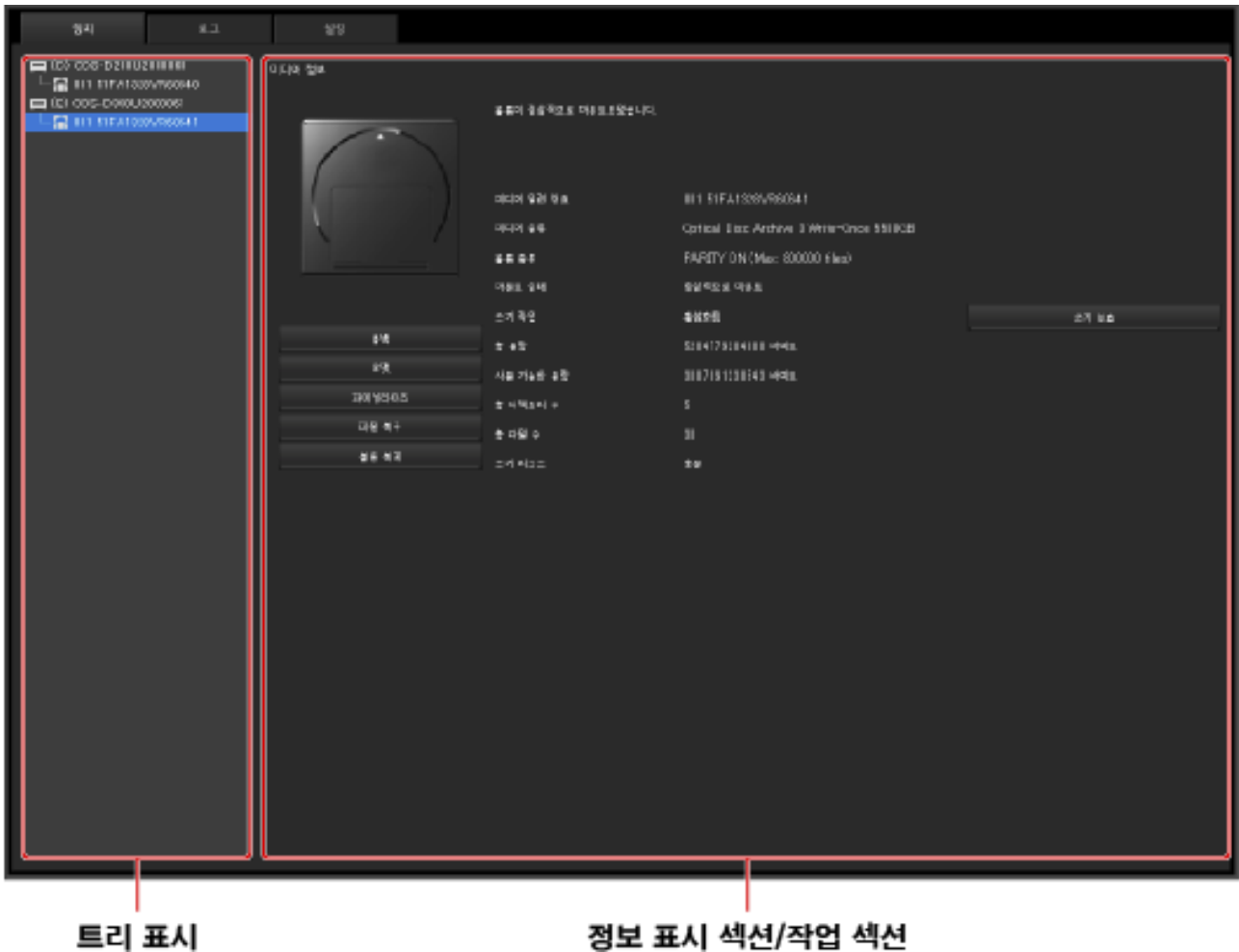
#### 트리 표시 - 드라이브 정보



트리 표시

정보 표시 섹션/작업 섹션

## 트리 표시 - 미디어 정보



연결된 드라이브 ( 드라이브 문자 , 모델 이름 및 일련 번호 ) 와 미디어는 트리 표시에 표시됩니다 . 2 개 이상의 드라이브가 연결되어 있으면 드라이브 문자가 오름차순으로 목록에 표시됩니다 . 선택한 드라이브 또는 미디어에 대한 정보는 목록 오른쪽의 정보 표시 섹션 / 작업 섹션에 표시됩니다 .

### 주의점

- 컴퓨터 하나를 네 대의 장치에 연결할 수 있습니다 .
- 미디어를 꺼낼 수 없는 경우 다른 응용 프로그램에서 카트리지를 사용하고 있지 않은지 확인하십시오 .

### 정보 표시 섹션 / 작업 섹션

트리 표시에서 선택한 정보를 표시하거나 드라이브 또는 미디어를 작동합니다 .

### 드라이브 정보

항목	표시되는 정보
모델 이름	선택한 드라이브의 이름 (ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U)
일련 번호	선택한 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 의 일련 번호
펌웨어 버전	선택한 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 의 펌웨어 버전

항목	표시되는 정보
Operation Hours <sup>a)</sup>	ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 를 켜 놓은 총 시간 (단위 : 시간)
Laser Parameter 0 에서 3 <sup>a)</sup>	광학 헤드의 누적 조명 출력 시간
Seek Counter 0 에서 3 <sup>a)</sup>	광학 헤드의 누적 검색 작업 수
Spindle Running Hours <sup>a)</sup>	누적 회전축 회전 시간 (단위 : 시간)
Inject Counter <sup>a)</sup>	카트리지를 삽입 누적 카운트
Select Counter <sup>a)</sup>	내부 디스크 선택 카운트
Carry Counter <sup>a)</sup>	내부 디스크 캐리 카운트
Disc Guide Counter	디스크 캐리 롤러를 사용한 디스크 캐리 누적 수
Carry Motor (H) Counter	Carry Motor (H) 를 사용한 디스크 캐리 누적 수
Carry Motor (V) Counter	Carry Motor (V) 를 사용한 디스크 캐리 누적 수
Air Filter Parameter	에어 필터의 누적된 사용 시간 (리셋 가능) <sup>b)</sup>
알람 코드	선택한 드라이브에서 발생했을 수 있는 알람에 대한 정보를 표시합니다.

a) ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 의 작동 기록에 대한 정보를 표시합니다. 이 정보를 주기적 유지 관리 일정을 잡기 위한 지침으로 사용하십시오. 주기적 유지 관리에 대한 자세한 내용은 Sony 서비스 센터에 문의하십시오.

b) Air Filter Parameter 의 리셋 방법에 대한 자세한 내용은 에어 필터와 함께 제공되는 설치 설명서를 참조하십시오 (RP).

### 주의점

일부 항목은 모델에 따라 나와있지 않을 수 있습니다.

## 드라이브 작업

항목	정보
1.090 으로 업데이트 <sup>c)</sup>	선택한 드라이브의 펌웨어 버전

c) 이 패키지의 펌웨어 버전이 1.090 인 경우 업데이트하십시오.

## 미디어 정보

항목	표시되는 정보
미디어 일련 번호	선택한 미디어의 일련 번호
미디어 종류	선택한 미디어의 종류 및 용량 <ul style="list-style-type: none"> <li>Optical Disc Archive 1 Rewritable 300GB</li> <li>Optical Disc Archive 1 Rewritable 600GB</li> <li>Optical Disc Archive 1 Rewritable 1200GB</li> <li>Optical Disc Archive 1 Write-Once 300GB</li> <li>Optical Disc Archive 1 Write-Once 600GB</li> <li>Optical Disc Archive 1 Write-Once 1500GB</li> <li>Optical Disc Archive 2 Write-Once 3300GB</li> <li>Optical Disc Archive 3 Write-Once 5500GB</li> </ul>
볼륨 종류	선택한 미디어의 볼륨 종류
마운트 상태	선택한 미디어의 마운트 상태
쓰기 작업	선택한 미디어에 쓸 수 있는지 여부.
총 용량	선택한 미디어의 총 용량
사용 가능한 용량	선택한 미디어의 쓰기 가능 여부

항목	표시되는 정보
총 디렉토리 수	선택한 미디어의 총 디렉토리 수
총 파일 수	선택한 미디어의 총 파일 수
다시 쓰기 카운트	선택한 미디어의 누적 다시 쓰기 카운트 (다시 쓰기 가능한 미디어만 표시됨)
포맷 카운트	선택한 미디어의 누적 포맷 카운트 (다시 쓰기 가능한 미디어만 표시됨)
쓰기 리소스	[ 비어 있음 ], [ 일부 ] 또는 [ 꽉 참 ] 이 표시됩니다 . (WO 미디어만 표시됨)

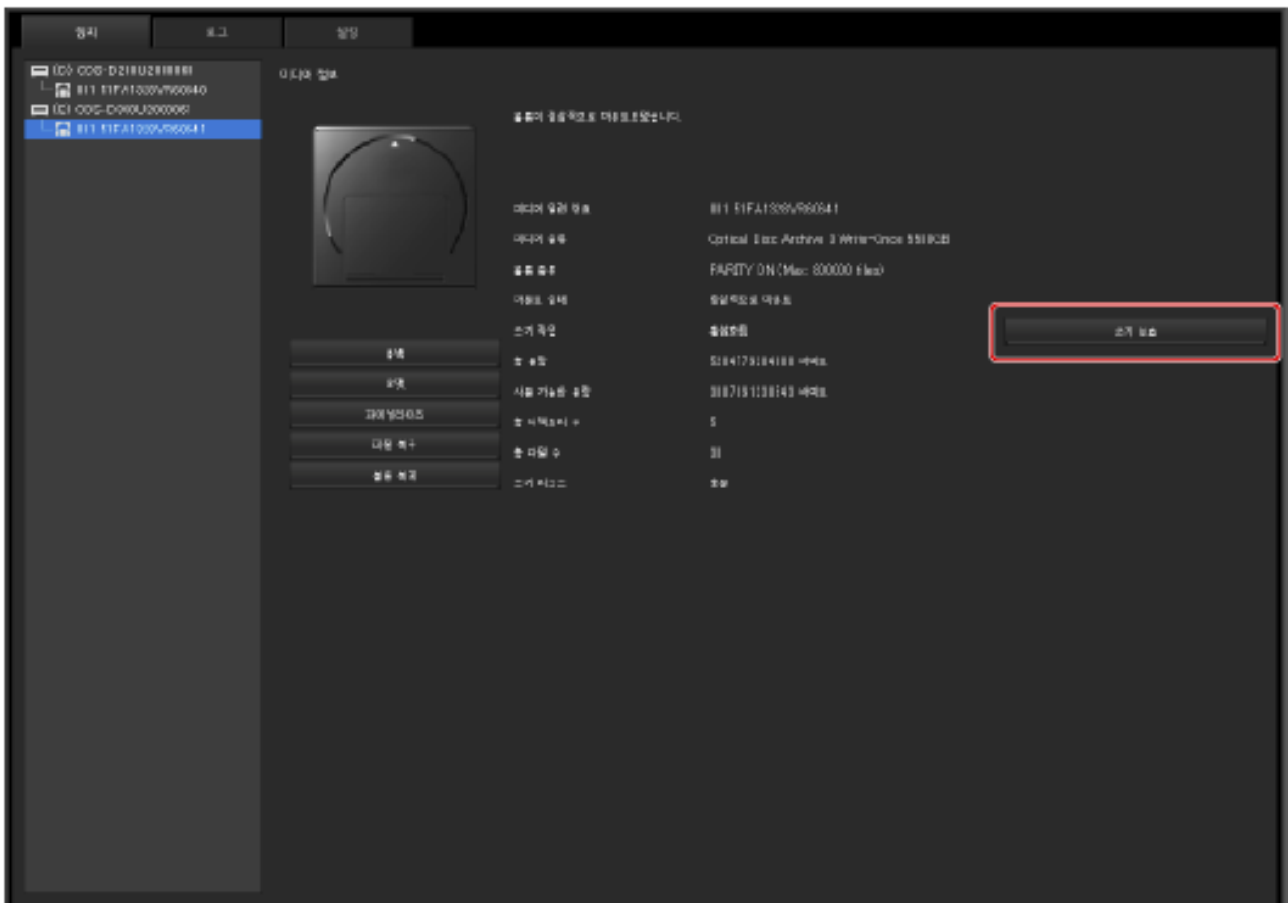
## 미디어 작업

항목	정보
[ 롤백 ] 버튼	롤백 포인트 검색을 시작합니다 .
[ 포맷 ] 버튼	포맷을 시작합니다 .
[ 파이널라이즈 ] 버튼	파이널라이즈를 시작합니다 .
[ 파일 복구 ] 버튼	복구 파일 목록 화면을 표시합니다 .
[ 쓰기 보호 ( 또는 쓰기 보호 해제 ) ] 버튼	쓰기 보호 설정 또는 해제를 시작합니다 .
[ 볼륨 복제 ] 버튼	볼륨 복제를 시작합니다 .

## 관련 항목

알람 코드

## 장치 화면 - 미디어에 쓰기 보호 설정



## 카트리지 메모리를 사용하여 미디어에 쓰기 보호 설정

1. [ 쓰기 보호 ] 버튼을 클릭합니다 .

" 쓰기 보호 설정을 변경하시겠습니까 ? 그러면 카트리지가 자동으로 꺼내집니다 ." 메시지가 나타납니다 .

2. [ 적용 ] 버튼을 클릭합니다 .

미디어가 쓰기 보호되고 카트리지가 꺼내집니다 .

## 카트리지 메모리를 사용하여 쓰기 보호를 해제하려면

1. [ 쓰기 보호 해제 ] 버튼을 클릭합니다 .

" 쓰기 보호 설정을 변경하시겠습니까 ? 그러면 카트리지가 자동으로 꺼내집니다 ." 메시지가 나타납니다 .

2. [ 적용 ] 버튼을 클릭합니다 .

미디어의 쓰기 보호가 해제되고 카트리지가 꺼내집니다 .

## 알람 코드

이 화면에는 선택한 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 에서 발생했을 수 있는 알람에 대한 정보가 표시됩니다 . 이 정보는 오류가 없어질 때까지 보존됩니다 .

### 코드

이 항목은 선택한 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 에서 발생한 알람의 코드 번호를 표시합니다 .

### 세부 정보

이 항목은 선택한 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 에서 발생한 알람에 대한 정보와 조치 방법에 대한 정보가 표시됩니다 .

알람에 대한 자세한 내용은 알람 코드 목록을 참조하십시오 .

## 디스플레이 새로 고침

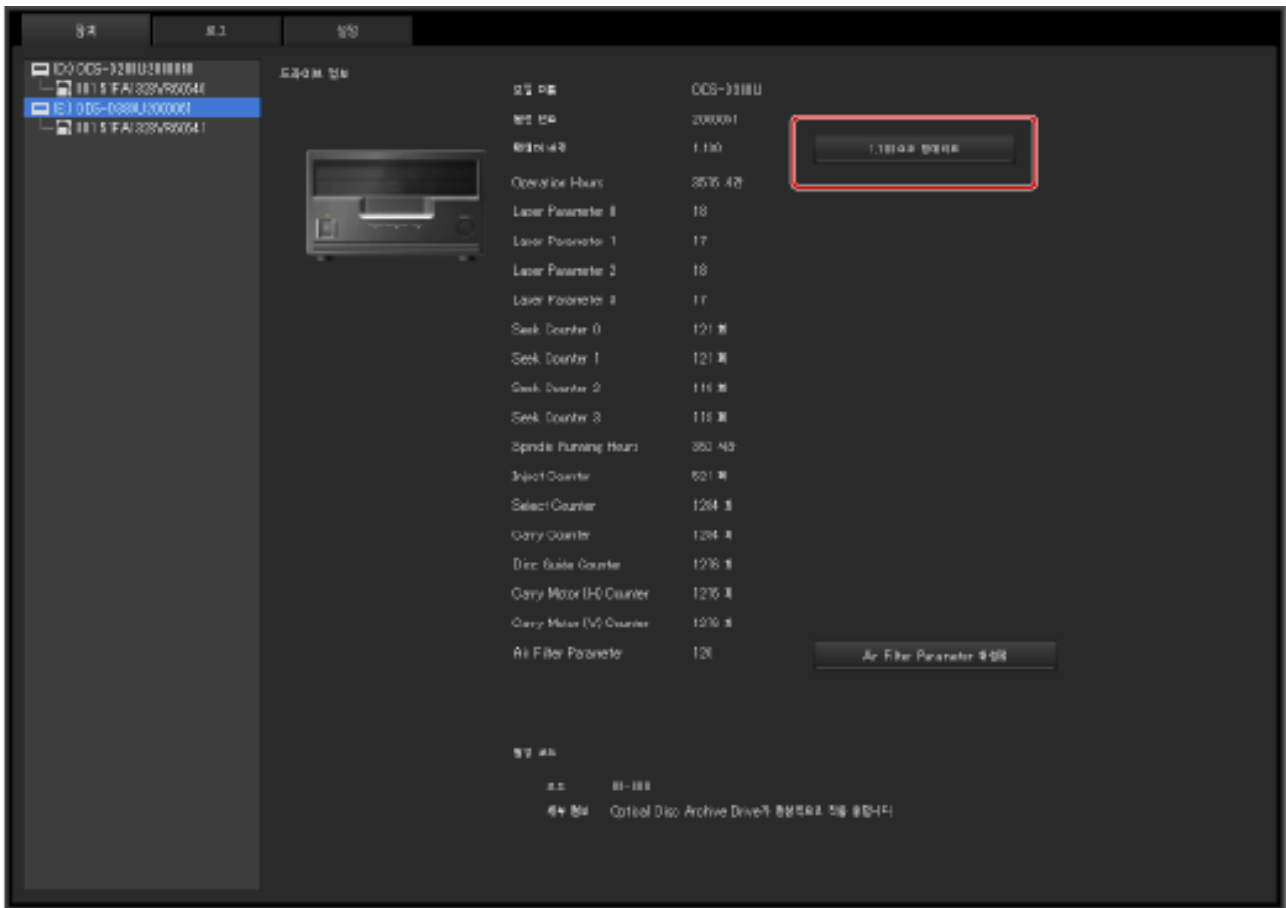
보기 메뉴에서 [ 업데이트 ] 를 선택합니다 .

## 관련 항목

장치 화면 - 화면 구성

## 펌웨어 업데이트

ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 의 펌웨어를 업데이트합니다 .



## 펌웨어를 업데이트하는 방법

1. [ 1.630 으로 업데이트 ] 버튼을 클릭합니다 a).

" 펌웨어를 업데이트하시겠습니까 ? " 메시지가 나타납니다 .

2. [ 예 ] 버튼을 클릭합니다 .

" 펌웨어를 업데이트하는 중 . 업데이트하는 동안 PC 와 드라이브를 끄거나 케이블을 분리하지 마십시오 ." 메시지가 나타나고 업데이트가 시작됩니다 .

일정한 시간이 지난 후 드라이브가 재시작되고 업데이트가 완료됩니다 .

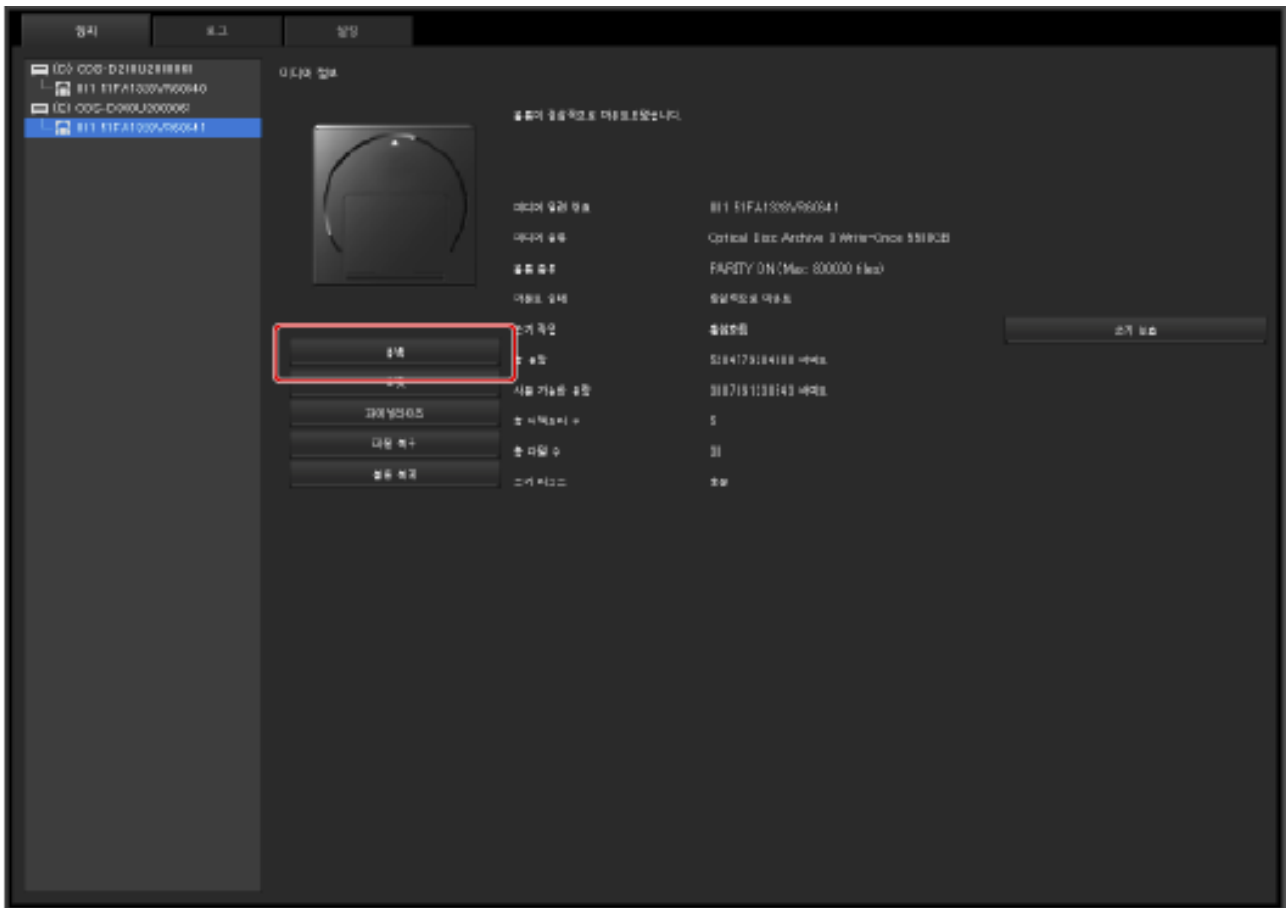
a) 이 패키지의 펌웨어 버전이 1.630 인 경우 업데이트하십시오 .

## 관련 항목

장치 화면 - 화면 구성

## 롤백

실수로 파일 시스템 제어 정보나 미디어 파일을 삭제한 경우 , 롤백 포인트를 검색하여 파일을 복구할 수 있습니다 .



## 롤백을 수행하는 방법

1. [ 롤백 ] 버튼을 클릭합니다 .

[ 롤백 포인트 검색 ] 화면이 나타나고 롤백 포인트 검색이 시작됩니다 .

2. 목록에서 롤백 포인트를 선택한 다음 [ 마운트 ] 버튼을 클릭합니다 .

메시지가 나타난 다음 읽기 전용 마운트가 시작됩니다 .

읽기 전용 마운트가 성공하면 " 롤백 포인트로 읽기 전용 마운트가 완료되었습니다 . Optical Disc Archive Filer 로 전체 볼륨을 다른 볼륨으로 복사하거나 파일 또는 디렉토리를 볼륨에 복사할 수 있습니다 . 또는 아래에서 하나를 선택하십시오 ." 메시지가 나타납니다 .

3. [ 이 롤백 포인트에 쓰기 가능을 적용합니다 . ] 를 선택한 다음 [ 확인 ] 버튼을 클릭합니다 .

메시지가 나타나고 롤백 포인트로 쓰기 가능 마운트가 시작됩니다 .

" 쓰기 가능 마운트가 적용되었습니다 . 롤백이 성공적으로 완료되었습니다 ." 메시지가 나타나고 롤백이 완료됩니다 .

## 롤백을 수행하는 방법 ( 용량 복구 )

쓰기 가능 미디어 사용 시 , 롤백 프로세싱을 수행하고 , 선택한 롤백 포인트 이후의 롤백 포인트를 삭제하는 방식으로 미디어 용량을 복원할 수 있습니다 .

1. " 롤백을 수행하는 방법 " 의 3 단계에서 [ 이 롤백 포인트에 쓰기 가능을 적용합니다 . ] 및 [ 미디어의 용량을 복원합니다 . ] 를 모두 선택하고 [ 확인 ] 버튼을 클릭합니다 .

### 주의점

- 삭제된 롤백 포인트는 복구할 수 없습니다 .
- 다른 응용 프로그램이 카트리지를 사용하고 있지 않은지 확인한 다음 롤백 프로세싱을 수행하십시오 .

## 롤백을 수행하는 방법 (파일 복구)

볼륨의 파일을 읽기 전용 마운트 아래에 복구할 수 있습니다.

1. "롤백을 수행하는 방법"의 2 단계에서 [볼륨의 파일을 복구합니다.]를 선택한 다음 [확인] 버튼을 클릭합니다.

## 롤백을 수행하는 방법 (볼륨 복제)

1. "롤백을 수행하는 방법"의 3 단계에서 [볼륨을 다른 미디어로 복제합니다.]를 선택한 다음 [확인] 버튼을 클릭합니다.

"볼륨을 복제하시겠습니까? 볼륨을 복제하는 동안 파일을 변경하지 마십시오." 메시지가 나타납니다.

2. [예] 버튼을 클릭합니다.

"복제 대상을 선택하십시오." 메시지가 나타납니다.

3. [다른 볼륨을 선택하십시오.]를 선택한 다음 [확인] 버튼을 클릭합니다.

표시된 화면에서 다른 볼륨의 빈 폴더를 선택하거나 [새 폴더] 버튼을 클릭하여 새 폴더를 만든 다음 [확인] 버튼을 클릭합니다.

볼륨 복제가 시작됩니다. 복제 상태가 진행률 막대에 표시됩니다.

### 팁

Optical Disc Archive 볼륨을 복제 대상으로 선택하고 [디스크 스페닝을 제한합니다.]를 선택하면 녹화되고 있는 여러 디스크 스페닝으로부터 단일 파일을 제한할 수 있습니다.

## 관련 항목

장치 화면 - 화면 구성

## 포맷

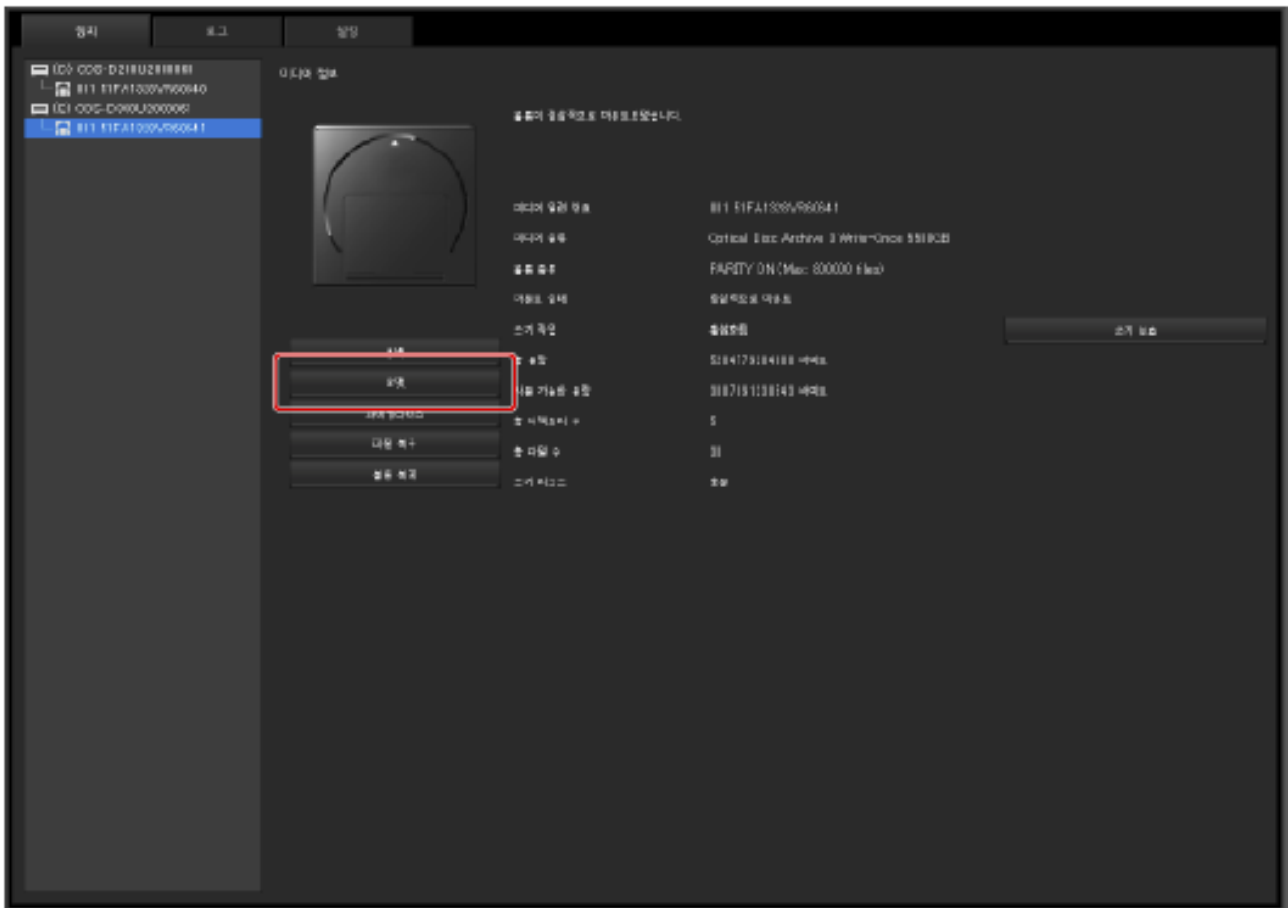
미디어의 모든 파일과 디렉토리가 삭제됩니다.

### 팁

포맷 후에 롤백 기능으로 포맷 프로세싱 이전의 상태로 돌아갈 수 있습니다.

### 주의점

- 포맷 후에 미디어 용량을 복구할 수 없습니다.
- [미디어의 용량을 복원합니다.]를 선택한 경우 미디어 용량을 복구할 수 있습니다. 그렇지 않은 경우 롤백 기능을 사용할 수 없습니다.
- 포맷할 수 없는 경우  
미디어가 쓰기 보호되어 있습니다. 다음 사항을 확인한 다음 다시 포맷하십시오.
  - Optical Disc Archive Drive에 쓰기가 가능한 카트리지가 있는지 여부. (자세한 내용은 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL을 참조하십시오.)
  - 카트리지의 쓰기 보호 탭이 [Writing disabled]로 설정되지 않았는지 여부. (자세한 내용은 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL을 참조하십시오.)
  - 설정 화면에서 [드라이브를 기록 금지로 설정] 확인란이 ON으로 설정되지 않았는지 여부. (확인란을 OFF로 설정한 다음 "작업 모드를 변경하는 방법"을 수행하십시오.)
  - 장치 화면 / 미디어 정보에서 [쓰기 보호] 버튼에 [쓰기 보호 해제]가 표시되지 않았는지 여부.



## 포맷하는 방법

1. [ 포맷 ] 버튼을 클릭합니다.  
"미디어를 포맷하시겠습니까? 포맷하면 여기에 저장된 모든 파일이 삭제됩니다." 메시지가 나타납니다.
2. [ 예 ] 버튼을 클릭합니다.  
포맷이 완료되면 "포맷이 완료되었습니다." 메시지가 나타납니다.
3. [ 닫기 ] 버튼을 클릭합니다.  
포맷이 완료됩니다.

## 포맷하는 방법 (용량 복구)

쓰기 가능 미디어를 사용할 때 기록된 공간을 비우기 위해 전체 미디어를 포맷할 수 있습니다. 또한, Optical Disc Archive 1 카트리지가 삽입된 경우 PARITY ON( 최대 : 60000 개 파일 ) 또는 PARITY OFF( 최대 : 240000 개 파일 ) 중에서 볼륨 종류를 선택할 수 있습니다.

1. 위의 2 단계에서 [ 미디어의 용량을 복원합니다. ] 를 선택하고 [ 확인 ] 버튼을 클릭합니다.

## 관련 항목

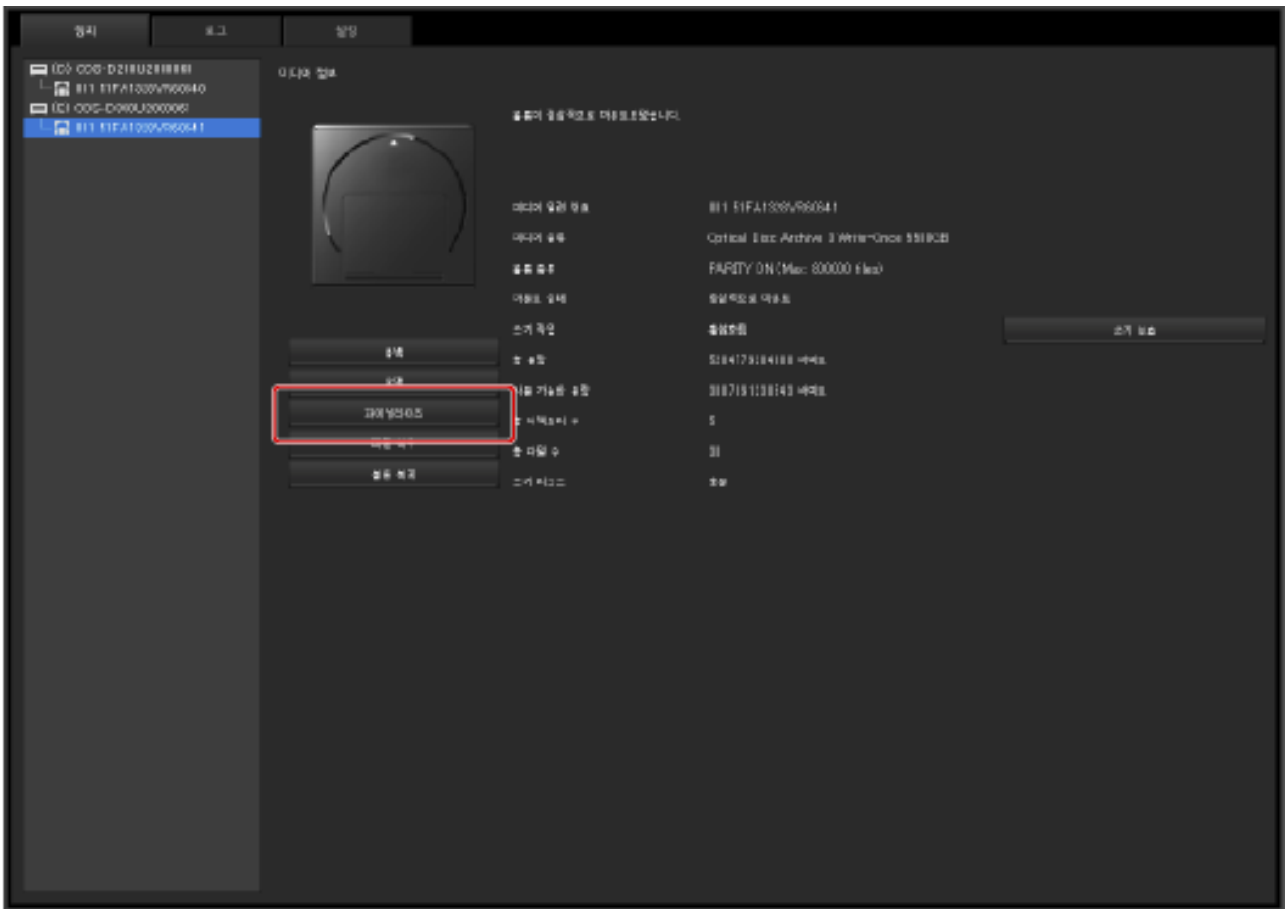
장치 화면 - 화면 구성

## 파이널라이즈 ( 바뀔쓰기가 안되는 미디어만 해당 )

미디어를 파이널라이즈하면 해당 미디어가 읽기 전용이 되고 쓸 수 없게 됩니다. 데이터의 내구성이 개선됩니다.

## 주의점

- 파이널라이즈할 수 없는 경우  
미디어가 쓰기 보호되어 있습니다 . 다음 사항을 확인한 다음 다시 파이널라이즈하십시오 .
  - 카트리지가 Optical Disc Archive Drive 와 호환되는지 여부 . ( 자세한 내용은 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL 을 참조하십시오 . )
  - 카트리지의 쓰기 보호 탭이 [ 쓰기 비활성화됨 ] 으로 설정되지 않았는지 여부 . ( 자세한 내용은 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL 을 참조하십시오 . )
  - 설정 화면에서 [ 드라이브를 기록 금지로 설정 ] 확인란이 ON 으로 설정되지 않았는지 여부 . ( 확인란을 OFF 로 설정한 다음 " 작업 모드를 변경하는 방법 " 을 수행하십시오 . )
  - 장치 화면 / 미디어 정보에서 [ 쓰기 보호 ] 버튼에 [ 쓰기 보호 해제 ] 가 표시되지 않았는지 여부 .



## 파이널라이즈하는 방법

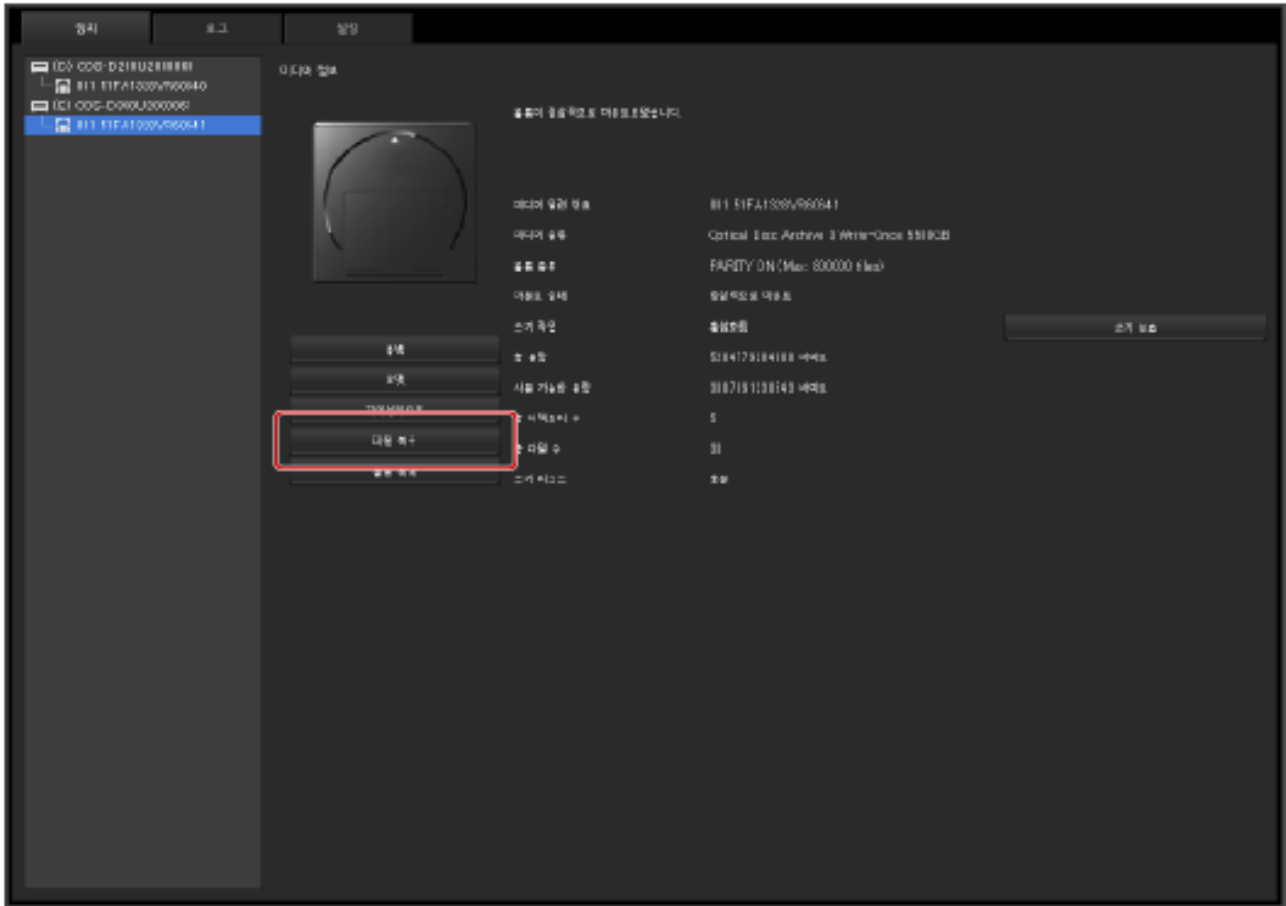
1. [ 파이널라이즈 ] 버튼을 클릭합니다 .  
" 미디어를 파이널라이즈하시겠습니까 ? 미디어를 파이널라이즈하면 읽기 전용으로 변경됩니다 . 파이널라이즈를 시작한 후에는 되돌릴 수 없습니다 . " 메시지가 나타납니다 .
2. [ 예 ] 버튼을 클릭합니다 .  
파이널라이즈가 완료된 후에 " 파이널라이즈가 완료되었습니다 . " 메시지가 나타납니다 .
3. [ 닫기 ] 버튼을 클릭합니다 .  
파이널라이즈가 완료됩니다 .

## 관련 항목

장치 화면 - 화면 구성

## 파일 복구

파손된 파일을 복구하고 복원할 수 있습니다.



## 파일을 복구하는 방법

### 파일 등록

1. [ 파일 복구 ] 버튼을 클릭합니다.  
목록 화면이 표시됩니다.
2. [ 파일 추가 ] 버튼을 클릭합니다.
3. 표시된 화면에서 복구하려는 파일을 선택한 다음 [Open] 버튼을 클릭합니다.  
복구하려는 파일이 목록 화면에 추가됩니다.

### 팁

파일을 드래그 앤 드롭하여 3 단계의 화면에 추가할 수도 있습니다.

### 파일 복구

1. [ 파일 복구 ] 버튼을 클릭합니다.  
목록 화면이 표시됩니다.
2. 복구하려는 파일을 선택하고 [ 복구 수행 ] 버튼을 클릭합니다.

3. 복구 후에 표시되는 화면에서 저장할 대상을 선택한 다음 [ 확인 ] 버튼을 클릭합니다 .

목록 화면으로 돌아가고 파일 복구가 시작됩니다 . 파일 복구가 완료되면 " 상태 " 가 " 복구 완료됨 " 으로 변경됩니다 .

#### 주의점

[ 파일 복구 ] 를 수행하면 카트리지에서 파일을 가져와서 복구한 다음 HDD 와 같은 다른 저장 장치에 저장합니다 .

## 볼륨 검사를 수행하는 방법

파일 시스템을 검사 및 복구할 수 있습니다 .

### 볼륨 검사

1. [ 파일 복구 ] 버튼을 클릭합니다 .

그러면 화면에 목록이 표시됩니다 .

2. [ 볼륨 검사 ] 버튼을 클릭합니다 .

그러면 “볼륨 검사를 수행하시겠습니까 ?” 라는 메시지가 표시됩니다 .

3. [ 예 ] 버튼을 클릭합니다 .

그러면 볼륨 검사 화면이 표시되면서 볼륨 검사가 시작됩니다 .

4. 볼륨 검사가 성공적으로 완료되면 “문제가 발견되지 않았습니다 .” 라는 메시지가 표시됩니다 .

문제가 발견되는 경우 화면에 표시되는 지침에 따라 볼륨을 복구합니다 .

#### 주의점

손상된 파일을 복구하려면 “파일을 복구하는 방법” 을 참조하십시오 .”

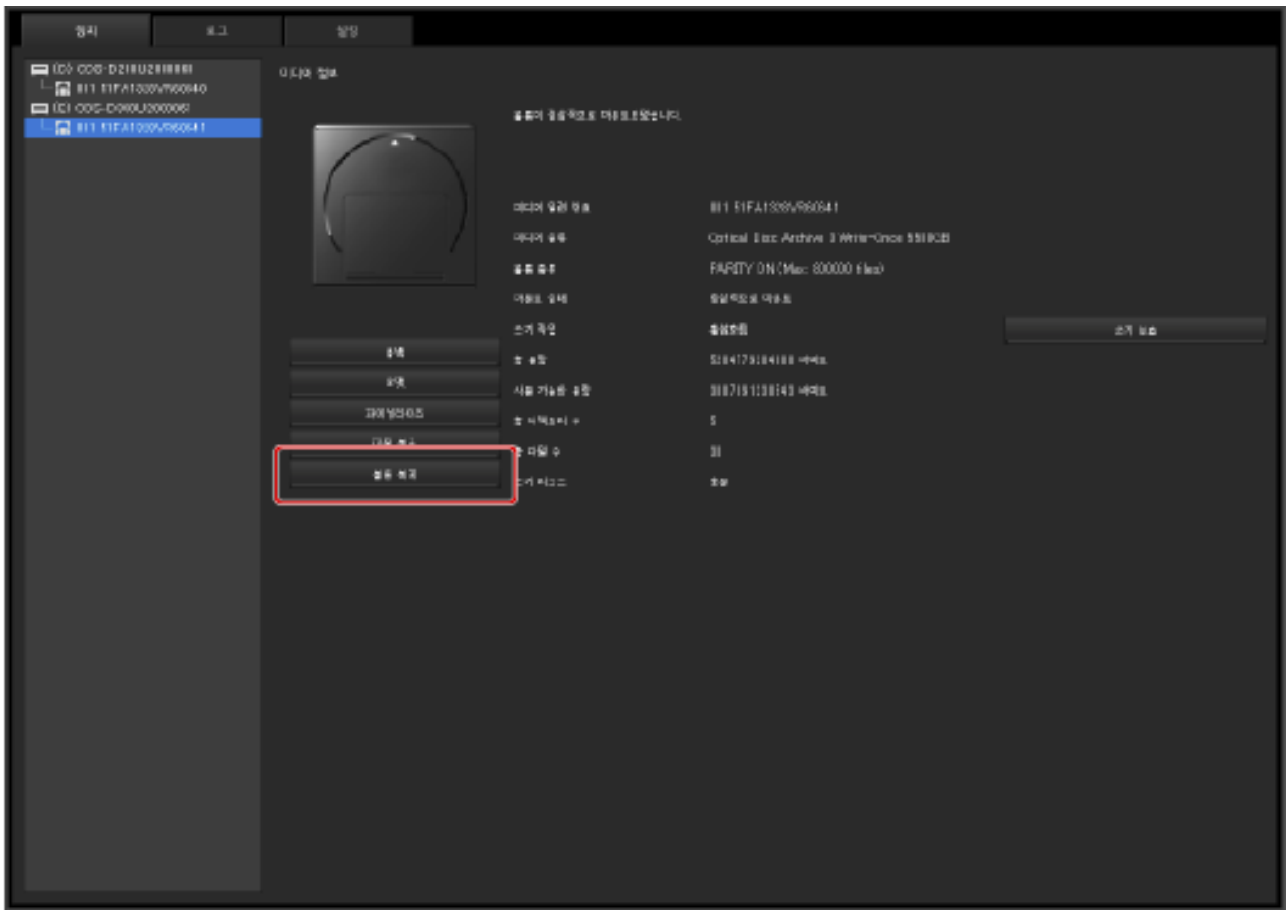
## 관련 항목

장치 화면 - 화면 구성

## 볼륨 복제

선택한 미디어 데이터를 볼륨이나 폴더 단위로 다른 미디어로 신속하게 복제할 수 있습니다 .

또한 Optical Disc Archive 카트리지가 아닌 하드 디스크 드라이브 (HDD) 로 복제할 수도 있습니다 .



## Optical Disc Archive 볼륨에서 로컬 디스크와 같은 다른 파일 시스템 볼륨으로 복제하려면

1. [ 볼륨 복제 ] 버튼을 클릭합니다.  
"볼륨을 복제하시겠습니까? 볼륨을 복제하는 동안 파일을 변경하지 마십시오." 메시지가 나타납니다.
2. [ 예 ] 버튼을 클릭합니다.  
[ 볼륨 단위로 복제합니다. ] 또는 [ 폴더 단위로 복제합니다. ] 를 선택한 다음 [ 확인 ] 버튼을 클릭합니다. [ 폴더 단위로 복제합니다. ] 를 선택한 경우, [ 참조 ] 버튼을 클릭하여 표시된 화면에서 복제할 폴더를 선택합니다.
3. [ 다른 볼륨을 선택하십시오. ] 를 선택한 다음 [ 확인 ] 버튼을 클릭합니다.  
표시된 화면에서 복제하려는 폴더를 선택하거나 새 폴더를 만든 다음 [ 확인 ] 버튼을 클릭합니다.
4. [ 볼륨 복제를 종료합니다. ] 또는 [ 다시 씹니다. ] 를 선택한 다음 [ 확인 ] 버튼을 클릭합니다.  
볼륨 복제가 시작됩니다. 복제 상태가 진행률 막대에 표시됩니다.

## Optical Disc Archive 볼륨에서 다른 Optical Disc Archive 볼륨으로 복제하려면

1. [ 볼륨 복제 ] 버튼을 클릭합니다.  
"볼륨을 복제하시겠습니까? 볼륨을 복제하는 동안 파일을 변경하지 마십시오." 메시지가 나타납니다.
2. [ 예 ] 버튼을 클릭합니다.  
[ 볼륨 단위로 복제합니다. ] 또는 [ 폴더 단위로 복제합니다. ] 를 선택한 다음 [ 확인 ] 버튼을 클릭합니다. [ 폴더 단위로 복제합니다. ] 를 선택한 경우, [ 참조 ] 버튼을 클릭하여 표시된 화면에서 복제할 폴더를 선택합니다.

3. [Optical Disc Archive Drive 의 볼륨을 선택하십시오 .] 를 선택하고 , 풀다운 메뉴에서 다른 Optical Disc Archive 볼륨을 선택한 다음 [ 확인 ] 버튼을 클릭합니다 .  
빈 폴더가 선택되거나 새 폴더가 만들어집니다 .
4. [ 볼륨 복제를 종료합니다 .] 또는 [ 다시 씁니다 .] 를 선택한 다음 [ 확인 ] 버튼을 클릭합니다 .  
볼륨 복제가 시작됩니다 . 복제 상태가 진행률 막대에 표시됩니다 .

#### 팁

복제 대상을 선택하고 [ 디스크 스페닝을 제한합니다 .] 를 선택하면 녹화되고 있는 여러 디스크 스페닝으로부터 단일 파일을 제한할 수 있습니다 .

## 동일한 Optical Disc Archive 볼륨으로 복제하려면

1. [ 볼륨 복제 ] 버튼을 클릭합니다 .  
" 볼륨을 복제하시겠습니까 ? 볼륨을 복제하는 동안 파일을 변경하지 마십시오 ." 메시지가 나타납니다 .
2. [ 예 ] 버튼을 클릭합니다 .  
표시된 화면에서 [ 볼륨 단위로 복제합니다 .] 를 선택하고 풀다운 메뉴에서 동일한 Optical Disc Archive 볼륨을 선택한 다음 [ 확인 ] 버튼을 클릭합니다 .
3. 다른 볼륨에서 백업 대상을 선택한 다음 [ 확인 ] 버튼을 클릭합니다 .
4. [ 볼륨 복제를 종료합니다 .] 또는 [ 다시 씁니다 .] 를 선택한 다음 [ 확인 ] 버튼을 클릭합니다 .  
복제 소스에서 백업 대상으로 볼륨 복제가 시작됩니다 . 복제 상태가 진행률 막대에 표시됩니다 .  
복제 소스에서 백업 대상으로 볼륨 복제가 종료되면 , 카트리지가 자동으로 꺼내지고 [ 복제 대상으로 다른 카트리지를 삽입하십시오 .] 메시지가 나타납니다 .
5. 카트리지를 삽입한 다음 [ 확인 ] 버튼을 클릭합니다 .  
[ 다른 카트리지를 삽입 시 ] => 6 단계  
[ 동일한 카트리지를 삽입 시 ] => 7 단계
6. [ 미디어를 포맷하고 여기에 복제합니다 .] 또는 [ 선택한 폴더로 복제합니다 .] 를 선택한 다음 [ 확인 ] 버튼을 클릭합니다 .  
백업 대상에서 복제 대상으로 볼륨 복제가 시작됩니다 . 복제 상태가 진행률 막대에 표시됩니다 .
7. [ 복제 소스와 동일한 카트리지를 삽입했습니다 . 다른 카트리지에 미디어를 복제하는 것이 좋습니다 .] 메시지가 나타납니다 .  
[ 다시 선택 ] 또는 [ 확인 ] 을 클릭합니다 .  
[ 다시 선택 ] 을 선택하면 카트리가 자동으로 꺼내지고 " 복제 대상으로 다른 카트리지를 삽입하십시오 ." 메시지가 나타납니다 .  
[ 확인 ] 을 선택한 경우 6 단계로 이동합니다 .

#### 팁

복제 대상을 선택하고 [ 디스크 스페닝을 제한합니다 .] 를 선택하면 녹화되고 있는 여러 디스크 스페닝으로부터 단일 파일을 제한할 수 있습니다 .

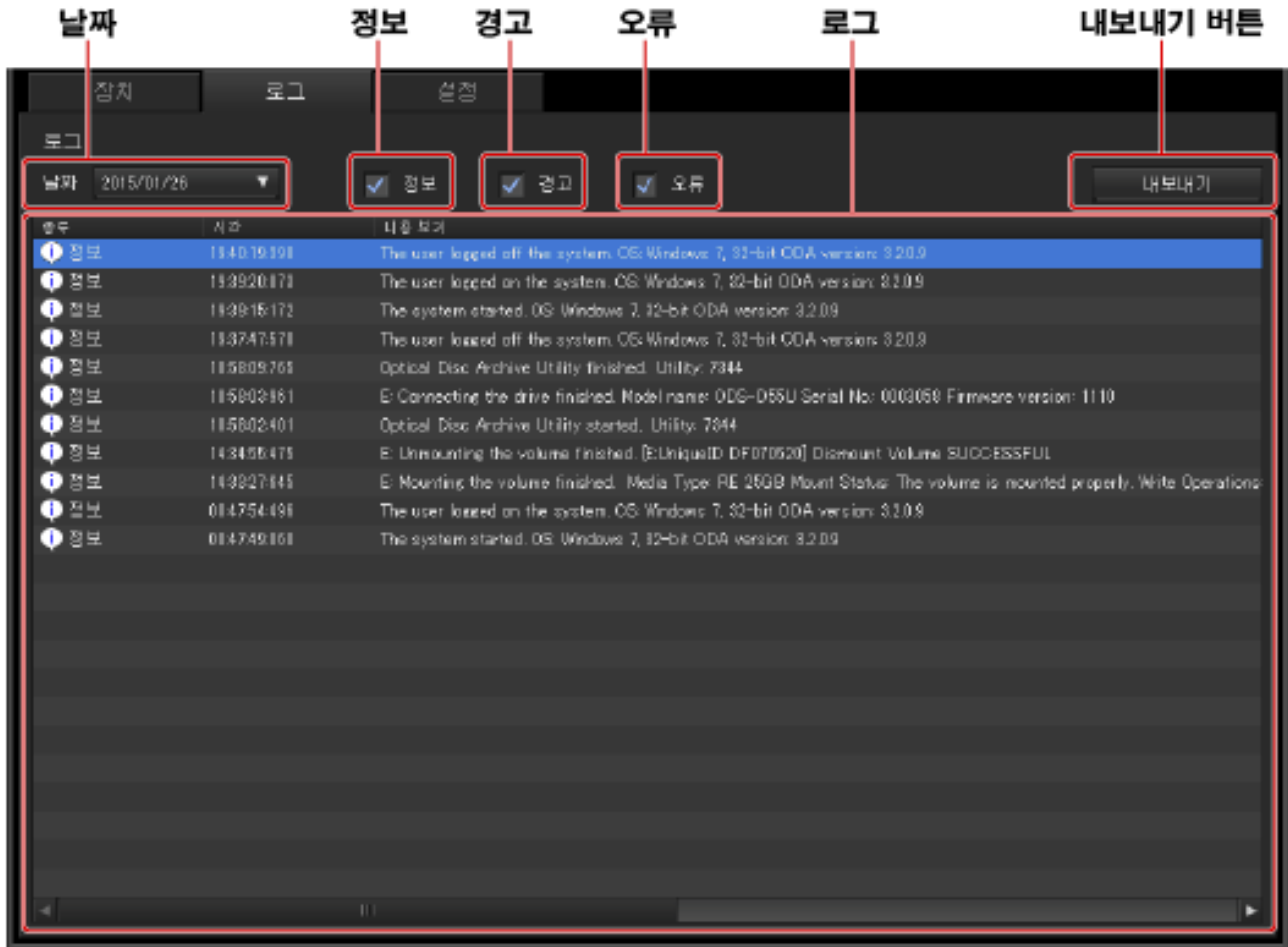
## 관련 항목

장치 화면 - 화면 구성

## 로그 화면

### 로그 화면 - 화면 구성

드라이버에서 발생한 로그입니다.



#### 날짜

표시하려는 로그의 날짜를 선택합니다.

▼를 클릭하여 목록 양식에 로그의 날짜를 표시합니다.

#### 로그

선택한 날짜의 로그 목록을 표시합니다.

[ 정보 ], [ 경고 ] 또는 [ 오류 ] 로 로그 유형을 필터링할 수 있습니다.

목록을 더블 클릭하거나 마우스 오른쪽 버튼으로 클릭하여 상세한 로그 대화 상자를 표시합니다.

항목	표시되는 정보
종류	로그 유형 표시 ( 정보 / 경고 / 오류 )
시간	로그가 발생한 시간 .
내용 보기	로그의 내용

#### 내보내기 버튼

로그를 원하는 위치로 내보냅니다.

#### 주의점

Optical Disc Archive Drive 의 용량을 선택할 수 없습니다 .

## 로그를 내보내는 방법

1. [ 내보내기 ] 버튼을 클릭합니다 .  
[ 다른 이름으로 저장 ] 화면이 표시됩니다 .
2. 저장할 파일 이름과 대상을 지정한 다음 [ 저장 ] 버튼을 클릭합니다 .  
" 내보내기가 완료되었습니다 ." 메시지가 나타납니다 .
3. [ 닫기 ] 버튼을 클릭합니다 .  
로그가 지정된 장소로 내보내집니다 .

#### 디스플레이 새로 고침

보기 메뉴에서 [ 업데이트 ] 를 선택합니다 .

#### 주의점

- 이전 버전의 Optical Disc Drive 펌웨어에서는 드라이브 로그를 사용하지 못할 수도 있습니다 .
- 카트리지가 삽입된 드라이브에서는 드라이브 로그를 사용할 수 없습니다 .

## 설정 화면

### 설정 화면 - 화면 구성

ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 및 Optical Disc Archive Software 의 작업 모드를 설정합니다 .

#### 주의점

설정 변경을 적용하려면 카트리지를 다시 삽입해야 합니다 .

## 작업 모드



## 작업 모드

작업 모드	정보
쓰기 - 검증	<p>Optical Disc Archive 1 미디어에서 쓰기 - 검증</p> <p>쓰기가 성공했는지 확인하는 동안 볼륨에 파일을 씁니다 . Optical Disc Archive 2/3 미디어에서 항상 쓰기 - 검증 .</p> <p><b>주의점</b></p> <p>전송 속도가 변경됩니다 . 자세한 내용은 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL 을 참조하십시오 .</p>
드라이브를 기록 금지로 설정	드라이브에 쓰기를 금지합니다 .

작업 모드	정보
파일 쓰기 완료 직후 관리 데이터를 미디어에 동기화	<p>녹화 도중에 오류가 발생하더라도 완료된 파일을 저장합니다 .</p> <p><b>주의점</b></p> <p>"파일 시스템 " 작업 모드 : ON - 기본 설정 파일 기록 중에 드라이브 전원이 꺼지거나 장애가 발생하더라도 이전에 완료된 파일이 안전하게 저장됩니다 . 다음에 볼륨이 마운트되면 , 이러한 장애로 인해 기록 도중에 손상된 파일만 삭제되고 다른 완료된 파일들은 자동으로 복구됩니다 . 그 이유는 새 파일이 기록될 때마다 시스템 정보가 업데이트되고 쓰여지기 때문입니다 . 안전에 최고 우선 순위를 두는 경우 [ON] 으로 설정하는 것이 좋습니다 .</p> <p>"파일 시스템 " 작업 모드 : OFF [OFF] 모드는 일련의 작은 파일들을 기록할 때 개선된 성능을 제공합니다 . 또한 카트리지의 사용의 효율성이 향상됩니다 . 반면에 , 연속 녹화 도중에 전원 장애와 같은 문제로 인해 다수의 파일이 삭제될 수 있습니다 . 그 이유는 일련의 파일들이 기록된 후에 시스템 정보가 한 번만 업데이트되고 쓰여지기 때문입니다 . 기록 문제의 경우 , 롤백이 발생하고 일련의 파일들을 기록하기 시작하기 전의 상태로 돌아갑니다 . 다음에 볼륨이 마운트되면 , 카트리지에 쓰여진 마지막 전체 파일 시스템 업데이트가 적용됩니다 . 전체 파일 시스템 기록에서 나타나지 않는 이전의 작은 파일들은 모두 삭제되고 복구할 수 없습니다 . 이러한 이유로 , 전원 공급이 불안정한 환경에서는 이 모드를 [ON] 으로 설정하는 것이 좋습니다 .</p>
기본 볼륨 종류	<p>Optical Disc Archive 1 : 포맷되지 않은 미디어를 삽입하면 이 볼륨 종류로 자동 포맷됩니다 .</p> <p>Optical Disc Archive 2/3 미디어에 항상 패리티를 추가해서 씁니다 . 파일의 최대 수는 각각 480000/800000 입니다 .</p> <p><b>주의점</b></p> <p>패리티가 추가된 쓰기를 수행하면 "파일 복구 " 수행 시 패리티 정보를 사용하여 오류를 수정하기 때문에 파손된 파일이 복구 / 복원됩니다 .</p>

### [ 공장 기본값 복원 ] 버튼

작업 모드를 공장 기본 설정으로 복원합니다 .

### [ 적용 ] 버튼

작업 모드를 결정합니다 .

## 작업 모드를 변경하는 방법

1. 작업 모드의 확인란을 선택합니다 . 폴다운 메뉴에서 [ 기본 볼륨 종류 ] 를 선택합니다 .
2. [ 적용 ] 버튼을 클릭합니다 .  
" 작업 모드 설정이 변경되었습니다 . 새로 설정된 모드를 활성화하려면 카트리지를 다시 삽입하십시오 . " 메시지가 나타납니다 .
3. [ 닫기 ] 버튼을 클릭합니다 .

4. 카트리지를 다시 삽입합니다 .  
작업 모드가 변경됩니다 .

## 작업 모드를 공장 기본 설정으로 되돌리는 방법

1. [ 공장 기본값 복원 ] 버튼을 클릭합니다 .  
" 작업 모드 설정의 공장 기본값을 복원하시겠습니까 ? " 메시지가 나타납니다 .
2. [ 예 ] 버튼을 클릭합니다 .  
" 작업 모드 설정이 변경되었습니다 . 새로 설정된 모드를 활성화하려면 카트리지를 다시 삽입하십시오 . " 메시지가 나타납니다 .
3. [ 닫기 ] 버튼을 클릭합니다 .
4. 카트리지를 다시 삽입합니다 .  
작업 모드가 공장 기본 설정으로 복원됩니다 .

## 부록

### 알람 코드 목록

장치 화면의 드라이브 정보에 표시되는 알람의 내용은 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 의 각 상태에 따라 나열됩니다 .

오류가 제거되면 표시등이 꺼집니다 .

- 카트리지 삽입 시 알람
- 작업 중 알람
- 센서 및 드라이브와 관련된 알람

### 카트리지 삽입 시 알람

LED <sup>a)</sup>	알람 코드	설명	가능한 해결책
초당 네 번 깜박임	50-010	디스크의 관리 영역을 읽을 수 없습니다 .	사용할 수 없는 미디어입니다 . 다른 카트리지를 삽입하십시오 .
	50-011		
	51-020		
	51-021		
	54-008		
	51-500	지원되지 않는 디스크 . 이 미디어를 사용하려면 최신 펌웨어가 필요합니다 .	최신 Optical Disc Archive Software 를 구하여 설치하고 펌웨어를 업데이트하십시오 .

LED <sup>a)</sup>	알람 코드	설명	가능한 해결책
매초 깜박임	21-001 6D-000	이 카트리지의 수명이 거의 만료되었습니다 .	데이터를 다른 카트리지에 복제할 것을 권장합니다 .
	21-100	사용할 수 없는 미디어 ;	Sony 서비스 센터에 문의하십시오 .
	21-101	미디어에 문제가 있을 수 있습니다 .	데이터를 다른 카트리지에 복제할 것을 권장합니다 . 자세한 내용은 최신 릴리스 노트를 참조하십시오 .
	21-102	카트리가 읽기 전용으로 마운트되었습니다 .	데이터를 다른 카트리지에 복제할 것을 권장합니다 . 자세한 내용은 최신 릴리스 노트를 참조하십시오 .
	54-009	카트리지와 디스크가 일치하지 않습니다 .	사용할 수 없는 미디어입니다 . 다른 카트리지를 삽입하십시오 .
	54-000 54-001 54-002 54-003	지원되지 않는 디스크 형식 .	사용할 수 없는 미디어입니다 . 다른 카트리지를 삽입하십시오 .
	54-006	지원되지 않는 카트리지 메모리 형식 .	사용할 수 없는 미디어입니다 . 다른 카트리지를 삽입하십시오 .
	54-004 54-005 54-007 95-517 95-518	카트리지 메모리에 액세스할 수 없습니다 .	카트리지를 다시 삽입하십시오 .

a) ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 의 ALARM 표시등 .

## 관련 항목

작업 중 알람

센서 및 드라이브와 관련된 알람

## 작업 중 알람

LED <sup>a)</sup>	알람 코드	설명	가능한 해결책
매초 깜박임	6D-001	사용할 수 없는 미디어 ;	Sony 서비스 센터에 문의하십시오 .
	6D-002	미디어에 문제가 있을 수 있습니다 .	데이터를 다른 카트리지에 복제할 것을 권장합니다 . 자세한 내용은 최신 릴리스 노트를 참조하십시오 .
	54-200 54-201 53-502	디스크의 관리 영역에서 오류가 감지되었습니다 .	카트리지를 다시 삽입하십시오 .
	54-004 54-005 54-007 95-517 95-518	카트리지 메모리에 액세스할 수 없습니다 .	카트리지를 다시 삽입하십시오 .
	54-006	지원되지 않는 카트리지 메모리 형식 .	사용할 수 없는 미디어입니다 . 다른 카트리지를 삽입하십시오 .
	54-300	기록용 디스크의 물리적 포맷을 복구하는 중입니다 .	오류 발생 중에는 전원을 끄지 마십시오 . 카트리지를 복구하는 중입니다 . 이 과정은 몇 분이 소요될 수 있으므로 전원을 끄지 말고 이 과정이 완료될 때까지 기다리십시오 .

LED <sup>a)</sup>	알람 코드	설명	가능한 해결책
점등되지 않음	22-001	다중 동시 카트리지 액세스가 빈번하게 발생했습니다.	다음 작업을 수행하지 마십시오. 성능이 저하될 수 있습니다. <ul style="list-style-type: none"> <li>• 동시에 파일 여러 개 읽기</li> <li>• 쓰기 (읽기) 도중에 파일 읽기 (쓰기)</li> <li>• 동일한 볼륨에 파일의 복제본 생성</li> </ul> 자세한 내용은 " 권장되지 않는 작업 " 을 참조하십시오.
	91-552	마운트에 실패했습니다.	카트리지를 꺼낸 후 다시 삽입하십시오.
	91-553	읽기 오류가 발생했습니다.	
	91-554	쓰기 오류가 발생했습니다.	
	91-556	미디어에 기록된 패리티 중 일부가 손상될 수 있습니다.	데이터를 다른 카트리지에 복제할 것을 권장합니다. 자세한 내용은 최신 릴리스 노트를 참조하십시오.
	91-558	파이버 채널 호스트 버스 어댑터의 최대 데이터 전송 크기가 올바르게 설정되지 않았습니다.	자세한 내용은 ODS-D380F Technical Note 를 참조하십시오.
	91-559	파일 시스템 캐시를 저장할 경로에 액세스할 수 없습니다.	Sony 서비스 센터에 문의하십시오.

a) ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 의 ALARM 표시등.

## 관련 항목

카트리지 삽입 시 알람

센서 및 드라이브와 관련된 알람

## 센서 및 드라이브와 관련된 알람

LED <sup>a)</sup>	알람 코드	설명	가능한 해결책
초당 네 번 깜박임	95-50D	드라이브의 내부 온도가 비정상적입니다 .	즉시 드라이브를 끄고 전원 케이블을 분리하십시오 . 드라이브를 계속 사용하면 내부 온도가 더욱 상승하여 피해를 입거나 화재가 발생할 수 있습니다 .
	95-51D		
	37-901		
	37-A01		
	37-B01		
	37-C01		
	47-901		
	47-A01		
	47-B01		
	47-C01		
매초 깜박임	95-50E	드라이브의 내부 온도가 상승했습니다 .	드라이브 앞뒤의 환기구가 막혀 있지 확인하고 열을 배출하십시오 .
	95-51E		
	37-900		
	37-A00		
	37-B00		
	37-C00		
	95-50F	드라이브의 내부 온도가 상승했습니다 .	드라이브 앞뒤의 환기구가 막혀 있지 확인하고 열을 배출하십시오 . 문제가 지속되면 Sony 서비스 센터에 문의하십시오 .
	95-51F		
	95-52F		
	3E-500	드라이브가 수평이 아닙니다 .	드라이브를 수평으로 설치하십시오 .
	95-52A	드라이브 유닛의 일련번호에서 불일치가 감지되었습니다 .	드라이브 조정을 수행하십시오 .

LED <sup>a)</sup>	알람 코드	설명	가능한 해결책
초당 네 번 깜박임	3E-501	드라이브가 수평이 아닙니다 .	드라이브를 수평으로 설치한 후에 드라이브를 꺾다가 켜십시오 .
	20-xxx	드라이브의 기계 제어에서 이상이 감지되었습니다 .	카트리지가 나오지 않으면 EJECT 버튼을 눌러 카트리를 꺼내십시오 . 카트리를 꺼낼 수 없으면 드라이브를 꺾다가 켜십시오 .
	20-117	드라이브의 기계 제어에서 이상이 감지되었습니다 .	취급하지 않는 카트리가 삽입되었을 가능성이 있습니다 .
	52-00B 52-08B 52-10B 52-18B 72-00B 72-08B 72-10B 72-18B	디스크에 액세스할 수 없습니다 .	카트리를 다시 삽입하십시오 .
매초 깜박임	6F-E00 6F-E80 6F-F00 6F-F80 8F-E00 8F-E80 8F-F00 8F-F80	디스크에 쓸 수 없습니다 .	카트리를 다시 삽입하십시오 .
초당 네 번 깜박임	6F-E03 6F-E83 6F-F03 6F-F83 8F-E03 8F-E83 8F-F03 8F-F83	디스크에 액세스할 수 없습니다 .	카트리를 다시 삽입하십시오 .

LED <sup>a)</sup>	알람 코드	설명	가능한 해결책
매초 깜박임	3F-511	에어 필터를 교체해야 합니다 .	에어 필터를 교체하십시오 . <sup>b)</sup>
	02-605	먼지 및 기타 요소로 인해 광학 블록의 광량이 줄었습니다 .	Sony 서비스 센터에 문의하십시오 .
	02-685		
	02-705		
	02-785		
	12-605		
	12-685		
	12-705		
	12-785		

a) ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 의 ALARM 표시등 .

b) 자세한 내용은 사용 설명서를 참조하십시오 .

## 관련 항목

카트리지 삽입 시 알람

작업 중 알람

# 파일 시스템에 대하여

## 개요

이 섹션에서는 파일 시스템의 개요를 설명합니다 .

- 마운트 작업
- 제한사항
- 권장되지 않는 작업

## 마운트 작업

[ 볼륨 ] 은 포맷된 미디어의 파일 시스템을 의미합니다 .

[ 마운트 ] 는 볼륨에 액세스가 가능한 상태를 의미합니다 .

### 빈 미디어의 경우

드라이브에 미디어를 삽입하면 자동으로 포맷된 다음 파일과 디렉토리를 포함하지 않은 빈 볼륨으로 마운트됩니다 .

#### Optical Disc Archive 1 미디어

Utility 의 설정 화면 / 규칙에서 볼륨 종류에 따라 다음 볼륨 종류 중 하나를 미리 선택할 수 있습니다 .

- PARITY ON( 최대 60000 개 파일 )  
최대 60,000 개의 파일을 만들 수 있는 포맷입니다 ( 디렉토리 포함 ) .  
파일 기록 시 예비 패리티 데이터가 자동으로 생성됩니다 . 이 패리티 데이터는 파일 복구가 필요한 경우에 사용됩니다 .
- PARITY OFF( 최대 240000 개 파일 )  
최대 240,000 개의 파일을 만들 수 있는 포맷입니다 ( 디렉토리 포함 ) .  
파일 기록 시 패리티 데이터가 생성되지 않습니다 .

#### Optical Disc Archive 2 미디어

- PARITY ON( 최대 480000 개 파일 )  
최대 480,000 개 파일 ( 디렉토리 포함 ) 을 만들 수 있는 포맷입니다 .  
파일을 기록하는 경우 예비 패리티 데이터가 자동으로 생성됩니다 .  
이 패리티 데이터는 파일 복구가 필요한 경우에 사용됩니다 .

#### Optical Disc Archive 3 미디어

- PARITY ON( 최대 800000 개 파일 )  
최대 800,000 개 파일 ( 디렉토리 포함 ) 을 만들 수 있는 포맷입니다 .  
파일을 기록하는 경우 예비 패리티 데이터가 자동으로 생성됩니다 .  
이 패리티 데이터는 파일 복구가 필요한 경우에 사용됩니다 .

### 다시 쓰기 가능한 미디어의 경우

Utility 의 포맷 기능을 사용하는 경우 , [ 미디어의 용량을 복원합니다 . ] 를 선택하여 위의 볼륨 종류 중 하나로 포맷된 미디어의 볼륨 종류를 다른 볼륨 종류로 변경할 수 있습니다 .

( 포맷하는 방법 ( 용량 복구 ) 를 참조하십시오 . )



이름에 다음 문자를 사용할 수 없습니다 .

코드	문자
U+0000	( 없음 )
U+0000 - U+001F	a)
U+0022	" ( 따옴표 ) a)
U+002A	* ( 별표 ) a)
U+002F	/ ( 슬래시 )
U+003A	: ( 콜론 ) a)
U+003C	< ( 보다 작음 ) a)
U+003E	> ( 보다 큼 ) a)
U+003F	? ( 물음표 ) a)
U+005C	₩ ( 백슬래시 또는 Yen 기호 ) a)
U+007C	( 세로 막대 ) a)
U+007F	(DEL) a)

a) Macintosh/Linux 에서 기록된 문자는 UDF 교환 규칙에 따라 변경됩니다 .

." ( 점 ) 또는 ".." ( 연속된 점 ) 만 사용하여 이름을 구성할 수 없습니다 .

이름 끝에 ( 스페이스 ) 또는 "." ( 점 ) 을 사용할 수 없습니다 .

동일한 디렉토리에서 파일 이름을 두 번 (IGNORE CASE) 사용할 수 없습니다 .

루트 디렉토리 아래에서 "\$" ( 달러 ) 또는 "\$\$" ( 연속 달러 ) 만 사용하여 이름을 구성할 수 없습니다 .

## 볼륨 레이블

볼륨 레이블에 사용 가능한 문자는 Unicode 2.0 에서 1 - 63 자입니다 .

Surrogate Pair 형식의 문자는 2 개의 문자로 카운트됩니다 .

이름에 다음 문자를 사용할 수 없습니다 .

코드	문자
U+0000 - U+001F	
U+0022	" ( 따옴표 )
U+002A	* ( 별표 )
U+002F	/ ( 슬래시 )
U+003A	: ( 콜론 )
U+003C	< ( 보다 작음 )
U+003E	> ( 보다 큼 )
U+003F	? ( 물음표 )
U+005C	₩ ( 백슬래시 또는 Yen 기호 )
U+007C	( 세로 막대 )
U+007F	(DEL)

." ( 점 ) 으로 시작하는 문자열을 사용할 수 없습니다 .

## 파일 기록

기록 모드에서 하나의 파일만 열 수 있습니다 . 순차 기록만 가능합니다 .

일반적으로 기록 모드에서 기록된 파일을 열 수 없습니다 .

다음 기록 파일은 기록 모드에서 열리고 순차 기록을 통해 추가로 기록될 수 있습니다 .

- 마지막으로 기록된 파일
- 크기가 영 (0) 인 파일 .

또한 , 표준 복사 명령을 사용할 경우 스페스 파일이 기록되지 않을 수 있습니다 . 자세한 내용은 최신 릴리스 노트를 참조하십시오 .

## 권장되지 않는 작업

파일 이동 과정 중에 장애가 발생하면 소스와 대상의 파일이 소실될 수 있습니다 . 장애가 발생하는 경우 파일을 이동하지 마십시오 .

카트리지에 대해 권장되지 않는 다음 작업 ([1] - [4]) 중 하나를 수행하면 카트리지 액세스가 느려집니다 . 이러한 상황이 장기간 지속되면 카트리지 액세스가 일시적으로 차단됩니다 .

이 오류는 카트리지를 다시 삽입하면 해결할 수 있습니다 .

권장되지 않는 작업 대신 가능한 해결책을 수행하십시오 .

권장되지 않는 작업	가능한 해결책
<p>[1]</p> <p>동시에 파일 읽기</p> <p>예 :</p> <p>Windows Explorer 에서 드래그 앤 드롭 방식으로 ODA 미디어의 기록된 파일을 로컬 폴더로 복사하면서 동시에 ODA 미디어의 다른 파일을 로컬 폴더로 드래그 앤 드롭 .</p> <p>이러한 동시 작업은 오류가 발생하면 안됩니다 . 하지만 2 개의 파일이 서로 다른 디스크에 있으면 , 64 KB - 1 MB 의 데이터가 복사될 때마다 디스크가 스왑되기 때문에 , 전송 속도가 매우 느려지고 미디어의 내구성이 저하됩니다 .</p>	<p>첫 번째 파일을 로컬 폴더 ( 컴퓨터의 하드 디스크나 다른 미디어 ) 로 복사하는 과정이 끝난 후에 다음 파일의 복사를 시작하십시오 .</p>
<p>[2]</p> <p>기록 도중에 파일 읽기 또는 읽기 도중에 파일 기록</p> <p>예 :</p> <p>Windows Explorer 에서 드래그 앤 드롭 방식으로 로컬 폴더의 파일을 ODA 미디어로 복사하면서 동시에 드래그 앤 드롭 방식으로 ODA 미디어의 다른 파일을 로컬 폴더로 복사 .</p> <p>이러한 2 개의 작업은 계속 실행되지만 파일이 서로 다른 디스크에 있으면 , 64 KB - 32 MB 의 데이터가 복사될 때마다 디스크가 스왑되기 때문에 전송 속도가 매우 느려지고 미디어의 내구성이 저하됩니다 .</p>	<p>ODA 미디어로 파일을 복사하는 과정이 끝난 후에 미디어의 파일을 로컬 폴더 ( 컴퓨터의 하드 디스크 또는 다른 미디어 ) 로 복사하십시오 .</p>

권장되지 않는 작업	가능한 해결책
<p>[3]</p> <p>동일한 볼륨에 파일의 복제본 생성</p> <p>예 :</p> <p>Windows Explorer 에서 ODA 미디어에 기록된 파일을 마우스 오른쪽 버튼으로 클릭하고 폴더로 드래그한 다음 [여기로 복사] 를 선택 .</p> <p>이 복사 작업은 오류가 발생하지 않지만 파일이 서로 다른 디스크에 있으면 , 64 KB - 32 MB 의 데이터가 복사될 때마다 디스크가 스왑되기 때문에 전송 속도가 매우 느려지고 미디어의 내구성이 저하됩니다 .</p>	<p>파일을 컴퓨터의 하드 디스크 ( 또는 다른 미디어 ) 로 복사하는 과정이 끝난 후에 해당 파일을 하드 디스크에서 ODA 미디어로 다시 복사하십시오 .</p>
<p>[4]</p> <p>2 개 이상의 디스크에 기록된 파일 읽기</p> <p>예 :</p> <p>XDCAM Viewer 를 통해 클립 파일을 재생할 때 ODA 미디어에서 2 개 이상의 디스크에 파일이 기록되면 , 스크롤 막대의 슬라이더를 옆으로 반복적으로 이동 .</p> <p>디스크가 빈번히 스왑되기 때문에 전송 속도가 매우 느려지고 미디어의 내구성이 저하됩니다 .</p>	<p>컴퓨터의 하드 디스크 ( 또는 다른 미디어 ) 로 파일을 복사한 다음 해당 미디어에서 복사한 파일을 재생하십시오 ( 또는 스크립 등 ) .</p> <p>ODA 미디어에 기록하면서 Content Manager (ODA 용 권장 소프트웨어 ) 를 사용하면 여러 디스크에 기록하는 것을 차단할 수 있습니다 . ( 기록 파일 크기가 가용 디스크 공간보다 크면 , 여러 디스크에 기록하는 것이 항상 차단되지는 않습니다 .)</p>

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Module: PCRE2 - Stack-less Just-In-Time Compiler, version 10.40

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Guido Bertoni, Joan Daemen, Michaël Peeters and Gilles Van Assche.

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Module: Secure Hash Algorithm SHA-3 - brg\_endian, version <https://github.com/BrianGladman/sha/commit/4b9e13ead2c5b5e41ca27c65de4dd69ae0bac228>

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The list was originally provided by Jo Hermans <[jo.hermans@gmail.com](mailto:jo.hermans@gmail.com)>.

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Module: Vulkan Memory Allocator, version 2.3.0

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Module: WebGradients

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=====  
Module: Wintab API

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Module: X Server helper

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