

# Optical Disc Archive Utility

Help

ODS-D55U

ODS-D77U

ODS-D280U

ODS-D380U

# Über die Optical Disc Archive Software

## Übersicht

Mit dieser Software können Sie auf dem Computer, der an das ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U angeschlossen ist, die folgenden Funktionen am ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U ausführen.

- **Anzeigen von Informationen**
  - Laufwerksinformationen
  - Medieninformationen
- **Konfiguration**
  - Betriebsmoduseinstellungen
  - Schreibschutzeinstellungen für Medien mit Cartridge-Speicher
- **Medienhandhabung**
  - Rollback
  - Formatieren
  - Abschließen
  - Dateiwiederherstellung
  - Volume-Duplizierung
- **Wartung**
  - Aktualisieren der Firmware
  - Anzeigen und Exportieren von Protokollen
  - Systemüberprüfung

## Verwandtes Handbuch

### OPERATION MANUAL

Dieses Handbuch wird mit dem ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U mitgeliefert.

Es enthält Erläuterungen zum Verwenden des ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U und der mitgelieferten Software.

# Systemvoraussetzungen

Für diese Software benötigen Sie ein Computersystem, das die folgenden Voraussetzungen erfüllt.

Element	Voraussetzung
Prozessor	<p>ODS-D55U/D77U/D77UA: Intel Core 2 Duo mit mindestens 2,66 GHz oder Intel Xeon mit mindestens 2,0 GHz</p> <p>ODS-D280U: Intel Core i5 der 3. Generation mit mindestens 2,5 GHz oder Intel Xeon mit mindestens 2,27 GHz</p> <p>ODS-D380U: Intel Core i5 der 6. Generation mit 2,3 GHz oder Intel Xeon mit mindestens 2,0 GHz</p>
Hauptspeicher	<p>ODS-D55U/D77U/D77UA: mindestens 2 GB × (Anzahl der angeschlossenen Geräte + 1)</p> <p>ODS-D280U/D380U: mindestens 4 GB × (Anzahl der angeschlossenen Geräte + 1)</p>
Freier Speicherplatz auf dem Zielort für die Installation	<p>ODS-D55U/D77U/D77UA: mindestens 32 GB + 16 GB × (Anzahl der angeschlossenen Geräte + 1)</p> <p>ODS-D280U: mindestens 32 GB + 32 GB × (Anzahl der angeschlossenen Geräte + 1)</p> <p>ODS-D380U: mindestens 64 GB + 64 GB × (Anzahl der angeschlossenen Geräte + 1)</p>
Betriebssystem	Informationen dazu finden Sie auf der Sony-Website für Profi-Produkte <sup>a)</sup> .
Sonstiges	<p>ODS-D55U/D77U/D77UA: Hi-Speed USB (USB 2.0) (Host-Controller mit Hi-Speed USB (USB 2.0) erforderlich)</p> <p>SuperSpeed USB (USB 3.2) (Host-Controller mit SuperSpeed USB erforderlich)</p> <p>ODS-D280U: SuperSpeed USB (USB 3.2) (Host-Controller mit SuperSpeed USB erforderlich)</p> <p>ODS-D380U: SuperSpeed USB 10 Gbps (USB 3.2) (Host-Controller mit SuperSpeed USB 10 Gbps (USB 3.2) erforderlich)</p> <p>SuperSpeed USB (USB 3.2)<sup>b)</sup> (Host-Controller mit SuperSpeed USB erforderlich)</p>

a) Sony-Website für Profi-Produkte

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

Andere Länder/Regionen als Japan

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

(Sie können Ihre Region und Ihre Sprache unter [Change Country, Region or Language] unten auf der Seite auswählen. Zudem können Sie die Software und Dokumentation abrufen, indem Sie nach der Bezeichnung des gewünschten Modells suchen, also z. B. „ODS-380U“.)

b) Die SuperSpeed USB-Verbindung (USB 3.2) erzielt möglicherweise nicht die gewünschte Übertragungsgeschwindigkeit.



## Menüleiste

Klicken Sie auf einen Menünamen, um die Befehle in diesem Menü anzuzeigen.

## Registerkarten

Zum Wechseln zwischen den Bildschirmen Gerät, Protokoll und Einstellung.

## Informationsanzeigebereich/Vorgangsbereich

Der über die Registerkarte ausgewählte Bildschirm wird angezeigt.

## Optionen in der Menüleiste

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Die Menüleiste enthält die folgenden Menüs und Optionen.

### Menü Ansicht

**Minimieren**

**Verschieben**

**Immer im Vordergrund**

**Immer in sichtbarem Arbeitsbereich**

**Nur in diesem Arbeitsbereich**

**In Arbeitsbereich rechts verschieben \*Beim Suchen im linken Arbeitsbereich  
oder**

**In Arbeitsbereich links verschieben \*Beim Suchen im rechten Arbeitsbereich**

**Schließen**

### Menü Tools

#### Systemüberprüfung

Zum Feststellen, ob Optical Disc Archive Software ordnungsgemäß funktioniert.

Hierbei wird mit CoreMark-Pro, einer Benchmark-Software des EEMBC, die Leistung der CPU gemessen.



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

#### Hinweis

Damit ist die Leistung der Software jedoch nicht garantiert.

## Datei-Cache-Ziel ändern

Zum Ändern des Ziels, an dem der Datei-Cache gespeichert wird.

## Verwandte Themen

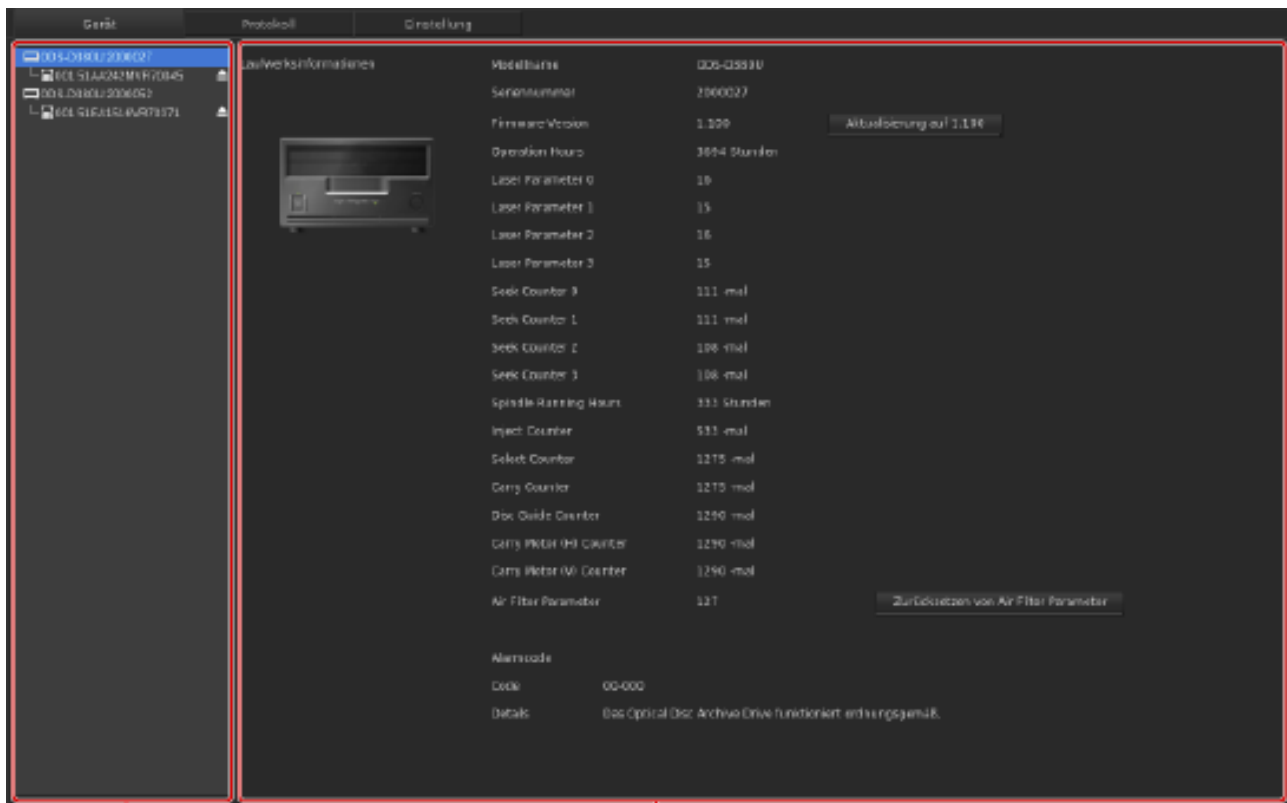
Starten und Beenden der Software

# Die Funktionsbildschirme

## Bildschirm Gerät

### Bildschirm Gerät – Bildschirm-Layout

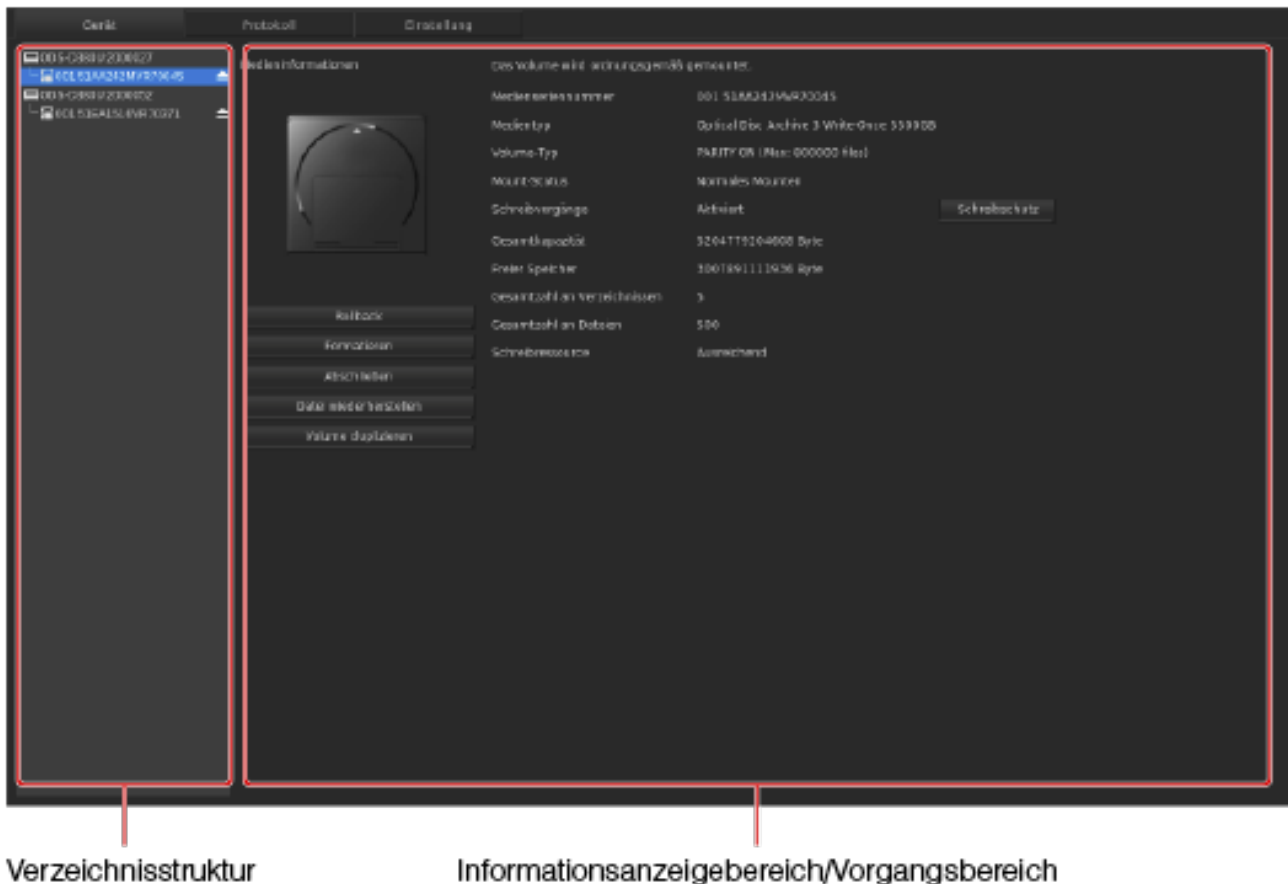
#### Verzeichnisstruktur – Laufwerksinformationen



Verzeichnisstruktur

Informationsanzeigebereich/Vorgangsbereich

## Verzeichnisstruktur – Medieninformationen



Das angeschlossene Laufwerk (Modellbezeichnung und Seriennummer) und die Medien werden in der Verzeichnisstruktur angezeigt. Das Symbol zum Auswerfen wird in der Liste ganz rechts angezeigt. Informationen zum ausgewählten Laufwerk oder Medium werden im Informationsanzeigebereich/Vorgangsbereich rechts neben der Liste angezeigt.

### Hinweis

- Ein Computer kann mit vier Laufwerken verbunden werden.
- Wenn das Medium nicht ausgeworfen werden kann, vergewissern Sie sich, dass keine andere Anwendung die Cartridge nutzt.

## Informationsanzeigebereich/Vorgangsbereich

Zum Anzeigen von Informationen oder zum Bedienen des in der Verzeichnisstruktur ausgewählten Laufwerks oder Mediums.

### Laufwerksinformationen

Element	Angezeigte Informationen
Modellname	Name des ausgewählten Laufwerks (ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U)
Seriennummer	Seriennummer des ausgewählten ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U
Firmware-Version	Firmware-Version des ausgewählten ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U

Element	Angezeigte Informationen
Operation Hours <sup>a)</sup>	Gesamtzahl der Stunden, in denen das ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U eingeschaltet war (Einheit: Stunde)
Laser Parameter 0 bis 3 <sup>a)</sup>	Gesamte Lichtausgabedauer des optischen Kopfs
Seek Counter 0 bis 3 <sup>a)</sup>	Gesamtzahl der Suchvorgänge mit dem optischen Kopf
Spindle Running Hours <sup>a)</sup>	Gesamtdauer der Spindeldrehung (Einheit: Stunden)
Inject Counter <sup>a)</sup>	Gesamtzahl, wie oft eine Cartridge eingesetzt wurde
Select Counter <sup>a)</sup>	Auswahlzähler der internen Disc
Carry Counter <sup>a)</sup>	Trägerzähler der internen Disc
Disc Guide Counter	Gesamtzahl an Disc-Trägern mit Disc-Tragwalzen
Carry Motor (H) Counter	Gesamtzahl an Disc-Trägern mit Carry Motor (H)
Carry Motor (V) Counter	Gesamtzahl an Disc-Trägern mit Carry Motor (V)
Air Filter Parameter	Gesamte Betriebsdauer des Luftfilters (Zurücksetzen ist möglich) <sup>b)</sup>
Alarmcode	Zum Anzeigen von Informationen zu allen Alarmen, die am ausgewählten Laufwerk aufgetreten sind.

a) Dieser Bildschirm zeigt Informationen zum Betriebsverlauf des ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U. Verwenden Sie die Informationen als Hilfe bei der Planung regelmäßiger Wartungsmaßnahmen. Einzelheiten zur regelmäßigen Wartung erhalten Sie von Ihrem Sony-Kundendienstmitarbeiter.

b) Einzelheiten zum Zurücksetzen von Air Filter Parameter finden Sie in der Installationsanleitung zum Luftfilter (RP).

### Hinweis

Je nach Modell werden manche Elemente nicht angezeigt.

## Laufwerksversion

Element	Bedeutung
Aktualisierung auf 1.090 <sup>c)</sup>	Firmware-Version des ausgewählten Laufwerks

c) Aktualisierung bei Firmware-Version 1.090 in diesem Paket.

## Medieninformationen

Element	Angezeigte Informationen
Medienseriennummer	Seriennummer des ausgewählten Mediums
Medientyp	Typ und Kapazität des ausgewählten Mediums <ul style="list-style-type: none"> <li>• Optical Disc Archive 1, wiederbeschreibbar, 300 GB</li> <li>• Optical Disc Archive 1, wiederbeschreibbar, 600 GB</li> <li>• Optical Disc Archive 1, wiederbeschreibbar, 1.200 GB</li> <li>• Optical Disc Archive 1, nur einmal beschreibbar, 300 GB</li> <li>• Optical Disc Archive 1, nur einmal beschreibbar, 600 GB</li> <li>• Optical Disc Archive 1, nur einmal beschreibbar, 1.500 GB</li> <li>• Optical Disc Archive 2, nur einmal beschreibbar, 3.300 GB</li> <li>• Optical Disc Archive 3, nur einmal beschreibbar, 5.500 GB</li> </ul>
Volume-Typ	Volume-Typ des ausgewählten Mediums
Mount-Status	Mount-Status des ausgewählten Mediums
Schreibvorgänge	Information, ob das ausgewählte Medium beschreibbar ist.
Gesamtkapazität	Gesamtkapazität des ausgewählten Mediums
Freier Speicher	Schreibverfügbarkeit des ausgewählten Mediums
Gesamtzahl an Verzeichnissen	Gesamtzahl an Verzeichnissen auf dem ausgewählten Medium
Gesamtzahl an Dateien	Gesamtzahl an Dateien auf dem ausgewählten Medium

Element	Angezeigte Informationen
Überschreibungshäufigkeit	Gesamte Überschreibungshäufigkeit des ausgewählten Mediums (nur bei wiederbeschreibbaren Medien angezeigt)
Formatierungshäufigkeit	Gesamte Formatierungshäufigkeit des ausgewählten Mediums (nur bei wiederbeschreibbaren Medien angezeigt)
Schreibressource	[Leer], [Wenig] oder [Ausreichend] wird angezeigt. (Nur bei einmal beschreibbaren Medien angezeigt)

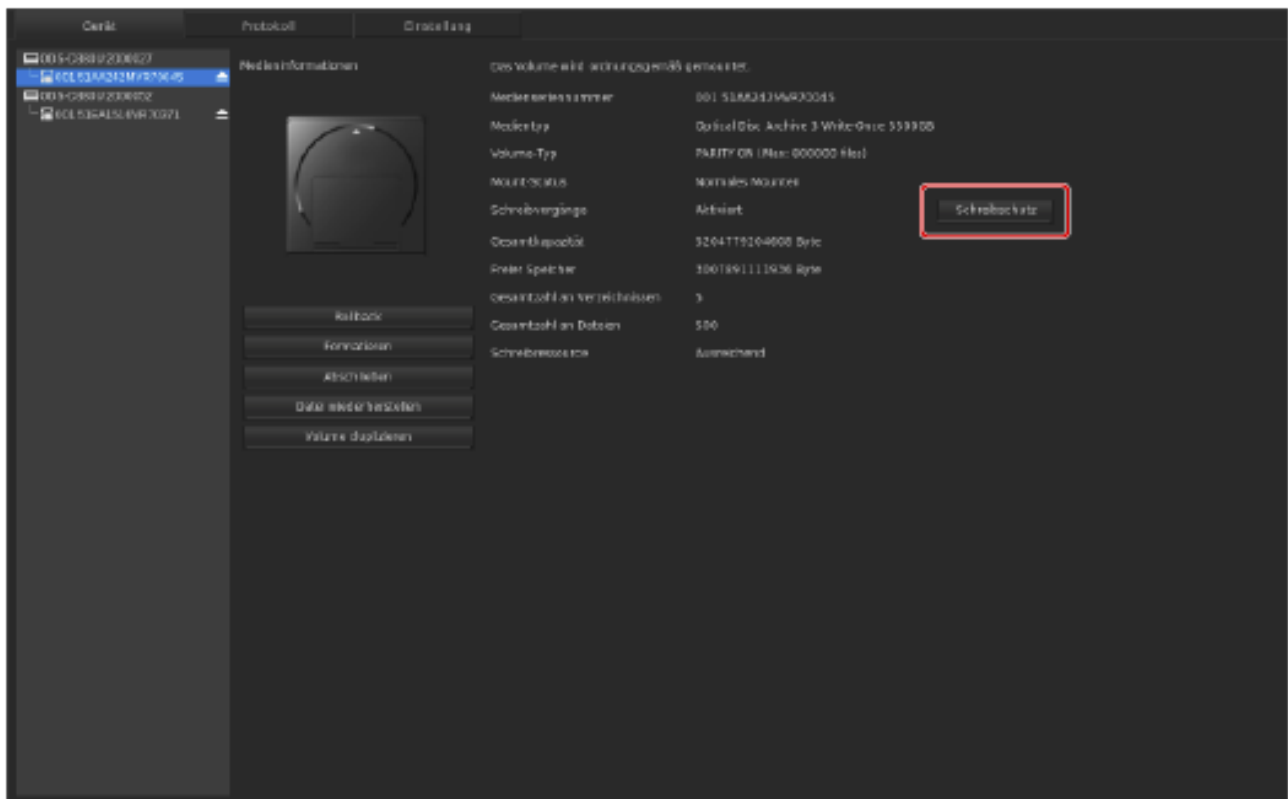
## Medienfunktionen

Element	Bedeutung
Schaltfläche [Rollback]	Zum Starten der Suche nach Rollback-Punkten.
Schaltfläche [Formatieren]	Zum Starten der Formatierung.
Schaltfläche [Abschließen]	Zum Starten des Abschließens.
Schaltfläche [Datei wiederherstellen]	Zum Anzeigen des Listenbildschirms zur Dateiwiederherstellung.
Schaltfläche [Schreibschutz (oder Schreibschutz aufheben)]	Zum Aktivieren oder Aufheben des Schreibschutzes.
Schaltfläche [Volume duplizieren]	Zum Starten der Volume-Duplizierung.

## Verwandte Themen

Alarmcode

## Bildschirm Gerät – Schreibschutzeinstellungen für Medien



## Schreibschutz Einstellungen für Medien mit Cartridge-Speicher

1. Klicken Sie auf die Schaltfläche [Schreibschutz].  
„Möchten Sie die Schreibschutzeinstellung ändern? In diesem Fall wird die Cartridge automatisch ausgeworfen.“ erscheint.
2. Klicken Sie auf die Schaltfläche [Übernehmen].  
Das Medium ist schreibgeschützt und die Cartridge wird ausgeworfen.

## So heben Sie den Schreibschutz für Medien mit Cartridge-Speicher auf

1. Klicken Sie auf die Schaltfläche [Schreibschutz aufheben].  
„Möchten Sie die Schreibschutzeinstellung ändern? In diesem Fall wird die Cartridge automatisch ausgeworfen.“ erscheint.
2. Klicken Sie auf die Schaltfläche [Übernehmen].  
Der Schreibschutz für das Medium ist aufgehoben und die Cartridge wird ausgeworfen.

## Alarmcode

Dieser Bildschirm enthält Informationen zu allen Alarmen, die am ausgewählten ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U aufgetreten sind. Diese Informationen bleiben angezeigt, bis der Fehler behoben ist.

### Code

Damit wird die Codenummer des Alarms angezeigt, der am ausgewählten ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U aufgetreten ist.

### Details

Damit werden detaillierte Informationen zum Alarm angezeigt, der am ausgewählten ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U aufgetreten ist, sowie Informationen dazu, wie vorzugehen ist.

Weitere Informationen zu Alarmen finden Sie unter Alarmcodeliste.

## Aktualisieren der Anzeige

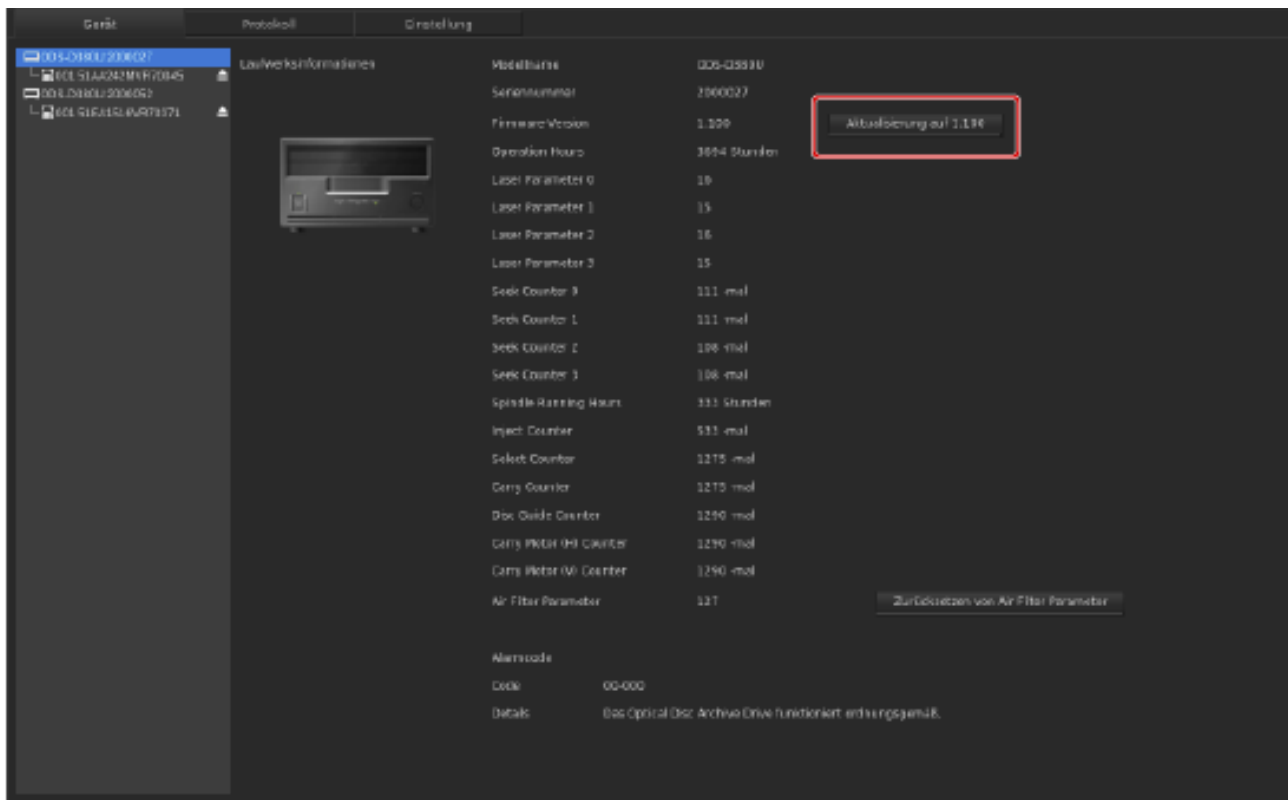
Wählen Sie [Aktualisieren] aus dem Menü Ansicht aus.

## Verwandte Themen

Bildschirm Gerät – Bildschirm-Layout

## Aktualisieren der Firmware

Sie können die Firmware des ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U aktualisieren.



## So aktualisieren Sie die Firmware

1. Klicken Sie auf die Schaltfläche [Aktualisierung auf 1.630] <sup>a)</sup>.

„Möchten Sie die Firmware aktualisieren?“ erscheint.

2. Klicken Sie auf die Schaltfläche [Ja].

„Die Firmware wird aktualisiert. Schalten Sie beim Aktualisieren den PC und das Laufwerk nicht aus und lösen Sie keine Kabel.“ erscheint und die Aktualisierung beginnt.

Nach einer Weile wird das Laufwerk neu gestartet und die Aktualisierung ist abgeschlossen.

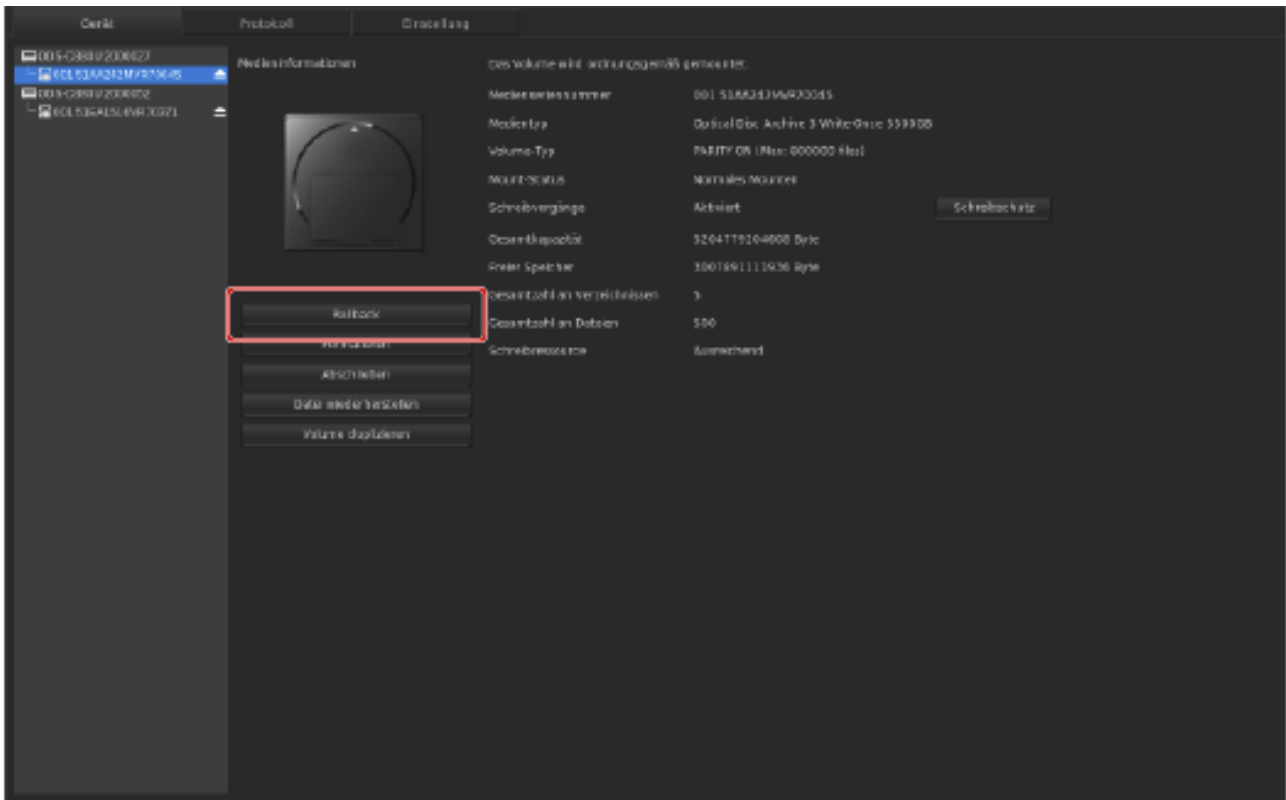
a) Aktualisierung bei Firmware-Version 1.630 in diesem Paket.

## Verwandte Themen

Bildschirm Gerät – Bildschirm-Layout

## Rollback

Wenn Sie versehentlich Steuerinformationen für das Dateisystem oder eine Mediendatei löschen, können Sie die Datei wiederherstellen, indem Sie nach Rollback-Punkten suchen.



## Ausführen des Rollback

1. Klicken Sie auf die Schaltfläche [Rollback].

Der Bildschirm [Rollback-Punkte suchen] erscheint und die Suche nach Rollback-Punkten beginnt.

2. Wählen Sie einen Rollback-Punkt in der Liste aus und klicken Sie dann auf die Schaltfläche [Mounten].

Eine Meldung erscheint und danach beginnt der Mount-Vorgang mit Schreibschutz.

Bei erfolgreichem Mount-Vorgang mit Schreibschutz wird die Meldung „Mount-Vorgang mit Schreibschutz für den Rollback-Punkt abgeschlossen. Mit Optical Disc Archive Filer können Sie das ganze Volume auf ein anderes Volume kopieren oder Dateien oder Verzeichnisse auf dem Volume kopieren. Oder wählen Sie eine der folgenden Optionen aus.“ angezeigt.

3. Wählen Sie [Heben Sie für diesen Rollback-Punkt den Schreibschutz auf.] und klicken Sie dann auf die Schaltfläche [OK].

Eine Meldung erscheint und der Mount-Vorgang ohne Schreibschutz für den Rollback-Punkt beginnt.

„Mount-Vorgang ohne Schreibschutz durchgeführt. Rollback erfolgreich abgeschlossen.“ erscheint und das Rollback ist damit abgeschlossen.

## Ausführen des Rollback (Wiederherstellen der Kapazität)

Bei wiederbeschreibbaren Medien kann die Medienkapazität wiederhergestellt werden, wenn Sie ein Rollback ausführen und neuere Rollback-Punkte als den ausgewählten Rollback-Punkt löschen.

1. Wählen Sie in Schritt 3 unter „Ausführen des Rollback“ die Option [Heben Sie für diesen Rollback-Punkt den Schreibschutz auf.] und die Option [Stellen Sie die Kapazität des Mediums wieder her.] aus und klicken Sie dann auf die Schaltfläche [OK].

#### **Hinweis**

- Sie können einen gelöschten Rollback-Punkt nicht wiederherstellen.
- Vergewissern Sie sich, dass keine andere Anwendung die Cartridge nutzt, und führen Sie dann ein Rollback aus.

## **Ausführen des Rollback (Dateiwiederherstellung)**

Die Dateien im Volume können mit einem Mount-Vorgang mit Schreibschutz wiederhergestellt werden.

1. Wählen Sie in Schritt 2 unter „Ausführen des Rollback“ die Option [Stellen Sie Dateien auf dem Volume wieder her.] aus und klicken Sie auf die Schaltfläche [OK].

## **Ausführen des Rollback (Volume-Duplizierung)**

1. Wählen Sie in Schritt 3 unter „Ausführen des Rollback“ die Option [Duplizieren Sie das Volume auf ein anderes Medium.] aus und klicken Sie auf die Schaltfläche [OK].  
„Möchten Sie das Volume wirklich duplizieren? Ändern Sie die Dateien während der Volume-Duplizierung bitte nicht.“ erscheint.
2. Klicken Sie auf die Schaltfläche [Ja].  
„Wählen Sie bitte ein Duplizierungsziel aus.“ erscheint.
3. Wählen Sie [Wählen Sie ein anderes Volume aus.] und klicken Sie auf die Schaltfläche [OK].  
Wählen Sie einen leeren Ordner eines anderen Volume auf dem angezeigten Bildschirm aus oder klicken Sie auf die Schaltfläche [Neuer Ordner], um einen neuen Ordner zu erstellen. Klicken Sie anschließend auf die Schaltfläche [OK].  
Die Volume-Duplizierung beginnt. Der Duplizierungsstatus wird in der Fortschrittsanzeige angezeigt.

#### **Tipp**

Wenn Sie das Optical Disc Archive-Volume als Duplizierungsziel festlegen und [Disc-Aufteilung einschränken.] auswählen, wird verhindert, dass eine einzelne Datei über mehrere Discs hinweg aufgezeichnet wird.

## **Verwandte Themen**

Bildschirm Gerät – Bildschirm-Layout

## **Formatieren**

Damit werden alle Dateien und Verzeichnisse auf dem Medium gelöscht.

#### **Tipp**

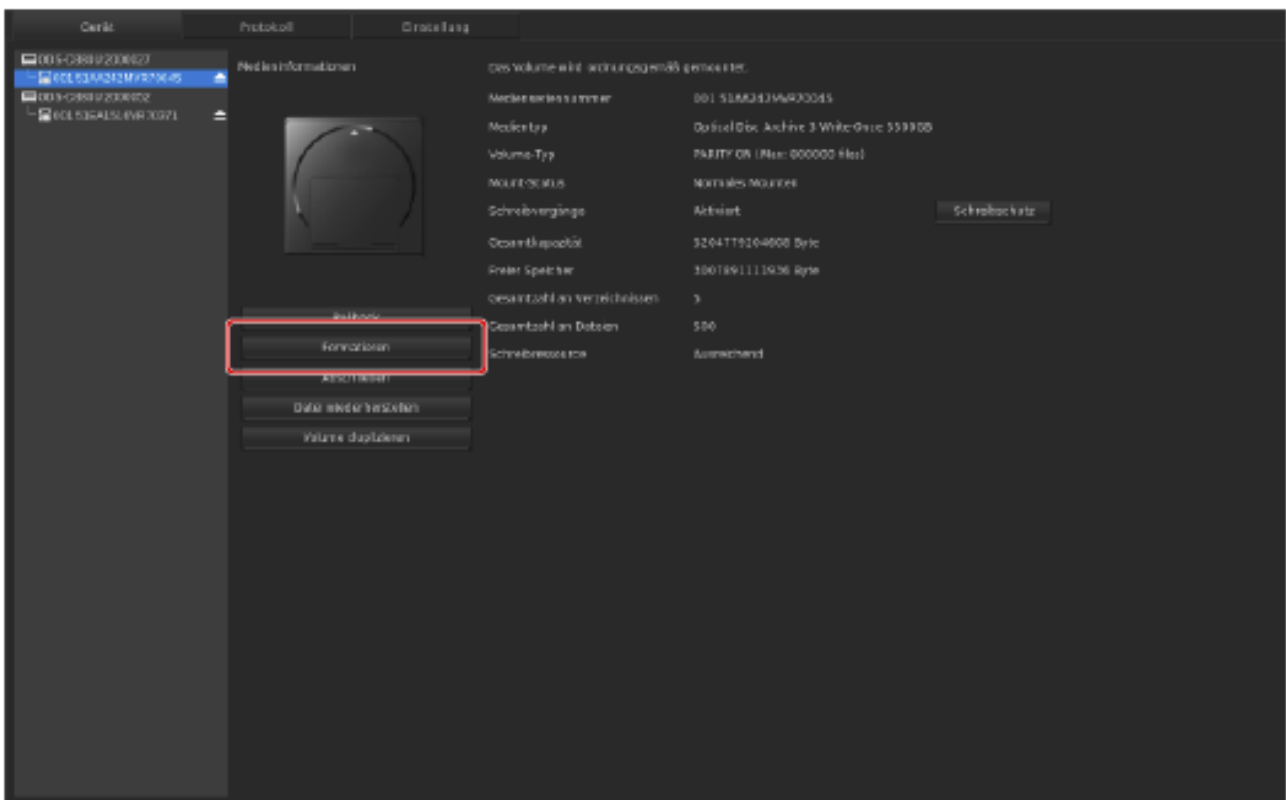
Nach dem Formatieren können Sie mit einem Rollback wieder den Zustand vor dem Formatieren herstellen.

## Hinweis

- Die Medienkapazität lässt sich nach dem Formatieren nicht wiederherstellen.
- Wenn Sie [Stellen Sie die Kapazität des Mediums wieder her.] auswählen, kann die Medienkapazität wiederhergestellt werden. Andernfalls kann die Rollback-Funktion nicht verwendet werden.
- Wenn das Formatieren nicht möglich ist

Das Medium ist schreibgeschützt. Überprüfen Sie Folgendes und starten Sie das Formatieren erneut.

- Die Cartridge muss mit dem Optical Disc Archive Drive beschrieben werden können. (Einzelheiten dazu finden Sie im OPERATION MANUAL zum ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U.)
- Der Schreibschutzschalter der Cartridge darf nicht auf [Schreibschutz] eingestellt sein. (Einzelheiten dazu finden Sie im OPERATION MANUAL zum ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U.)
- Das Kontrollkästchen [Aufzeichnung auf Laufwerke sperren] auf dem Bildschirm Einstellung darf nicht aktiviert sein. (Deaktivieren Sie das Kontrollkästchen und gehen Sie wie unter „Ändern des Betriebsmodus“ erläutert vor.)
- [Schreibschutz aufheben] darf nicht anstelle der Schaltfläche [Schreibschutz] auf dem Bildschirm Gerät/Medieninformationen angezeigt werden.



## Ausführen der Formatierung

1. Klicken Sie auf die Schaltfläche [Formatieren].  
„Möchten Sie das Medium wirklich formatieren? Wenn Sie es formatieren, werden alle darauf gespeicherten Dateien gelöscht.“ erscheint.
2. Klicken Sie auf die Schaltfläche [Ja].  
Wenn das Formatieren abgeschlossen ist, erscheint „Formatieren abgeschlossen.“.

3. Klicken Sie auf die Schaltfläche [Schließen].

Damit ist das Formatieren abgeschlossen.

## Ausführen der Formatierung (Wiederherstellen der Kapazität)

Bei wiederbeschreibbaren Medien können Sie das ganze Medium formatieren, um den belegten Speicherplatz freizugeben. Zudem können Sie als Volume-Typ PARITY ON (max. 60.000 Dateien) oder PARITY OFF (max. 240.000 Dateien) auswählen, wenn die Optical Disc Archive 1-Cartridge eingelegt ist.

1. Wählen Sie in Schritt 2 oben [Stellen Sie die Kapazität des Mediums wieder her.] und klicken Sie auf die Schaltfläche [Ja].

## Verwandte Themen

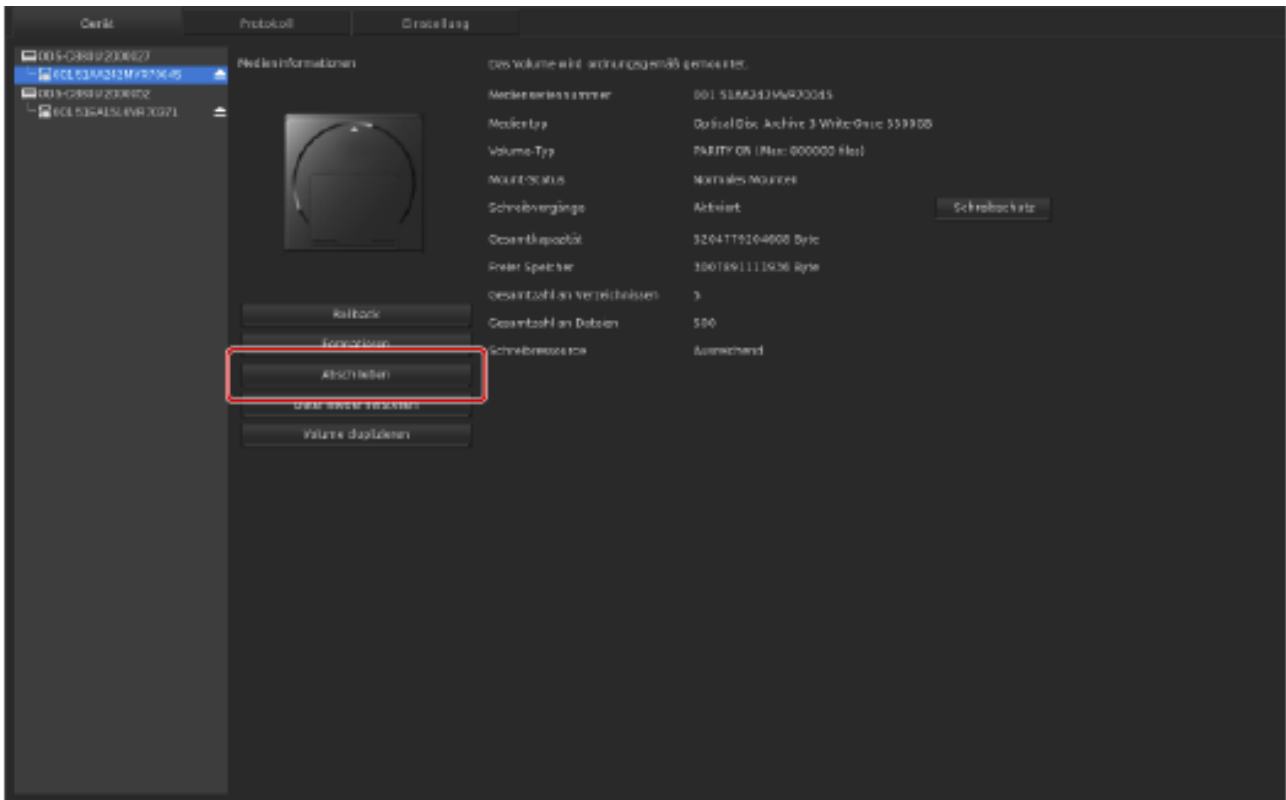
Bildschirm Gerät – Bildschirm-Layout

## Abschließen (nur einmal beschreibbare Medien)

Wenn Sie ein Medium abschließen, kann es nur noch gelesen und nicht mehr beschrieben werden. Dadurch sinkt die Fehleranfälligkeit der Daten.

### Hinweis

- Wenn das Abschließen nicht möglich ist  
Das Medium ist schreibgeschützt. Überprüfen Sie Folgendes und starten Sie das Abschließen erneut.
  - Die Cartridge muss mit Optical Disc Archive Drive kompatibel sein. (Einzelheiten dazu finden Sie im OPERATION MANUAL zum ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U.)
  - Der Schreibschutzschalter der Cartridge darf nicht auf [Schreibschutz] eingestellt sein. (Einzelheiten dazu finden Sie im OPERATION MANUAL zum ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U.)
  - Das Kontrollkästchen [Aufzeichnung auf Laufwerke sperren] auf dem Bildschirm Einstellung darf nicht aktiviert sein. (Deaktivieren Sie das Kontrollkästchen und gehen Sie wie unter „Ändern des Betriebsmodus“ erläutert vor.)
  - [Schreibschutz aufheben] darf nicht anstelle der Schaltfläche [Schreibschutz] auf dem Bildschirm Gerät/Medieninformationen angezeigt werden.



## Ausführen des Abschließens

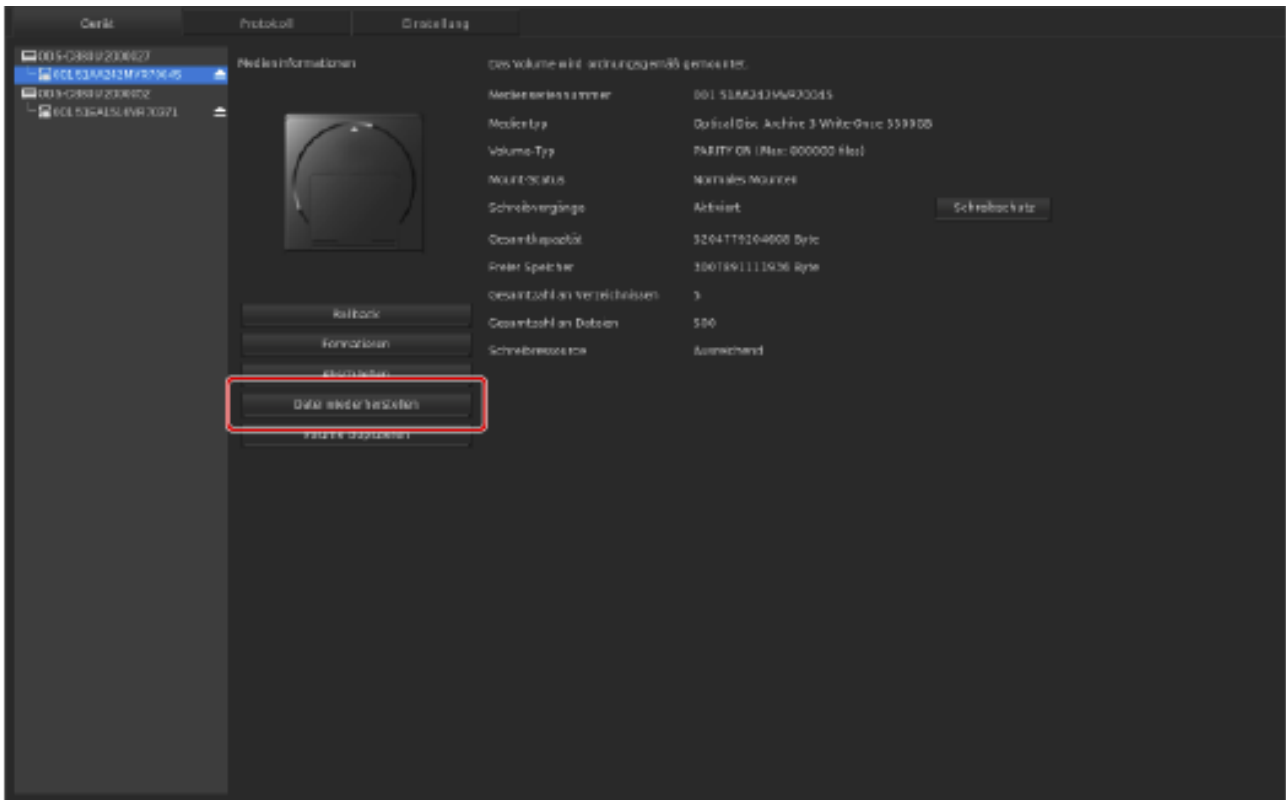
1. Klicken Sie auf die Schaltfläche [Abschließen].  
„Möchten Sie das Medium wirklich abschließen? Wenn Sie es abschließen, wird es schreibgeschützt. Sobald das Abschließen gestartet wurde, kann es nicht mehr rückgängig gemacht werden.“ erscheint.
2. Klicken Sie auf die Schaltfläche [Ja].  
Wenn das Abschließen beendet ist, erscheint „Abschließen durchgeführt.“.
3. Klicken Sie auf die Schaltfläche [Schließen].  
Damit ist das Abschließen beendet.

## Verwandte Themen

Bildschirm Gerät – Bildschirm-Layout

## Dateiwiederherstellung

Sie können beschädigte Dateien wiederherstellen.



## Ausführen der Dateiwiederherstellung

### Registrieren einer Datei

1. Klicken Sie auf die Schaltfläche [Datei wiederherstellen].  
Der Listenbildschirm wird angezeigt.
2. Klicken Sie auf die Schaltfläche [Dateien hinzufügen].
3. Wählen Sie auf dem angezeigten Bildschirm die wiederherzustellende Datei aus und klicken Sie auf die Schaltfläche [Öffnen].  
Die wiederherzustellende Datei wird zum Listenbildschirm hinzugefügt.

#### **Tipp**

Sie können eine Datei in Schritt 3 auch auf den Bildschirm ziehen und dort ablegen.

### Wiederherstellen einer Datei

1. Klicken Sie auf die Schaltfläche [Datei wiederherstellen].  
Der Listenbildschirm wird angezeigt.
2. Wählen Sie die wiederherzustellende Datei aus und klicken Sie auf die Schaltfläche [Wiederherstellung ausführen].
3. Wählen Sie auf dem angezeigten Bildschirm das Speicherziel für die Datei nach dem Wiederherstellen aus und klicken Sie dann auf die Schaltfläche [OK].  
Wenn wieder der Listenbildschirm angezeigt wird, beginnt die Dateiwiederherstellung. Wenn die Dateiwiederherstellung abgeschlossen ist, ändert sich „Status“ in „Wiederherstellung abgeschlossen“.

#### **Hinweis**

Wenn Sie [Datei wiederherstellen] ausführen, wird die Datei aus der Cartridge abgerufen und wiederhergestellt und dann auf anderen Speichergeräten wie der Festplatte gespeichert.

## **So führen Sie den Volume-Check aus**

Sie können das Dateisystem überprüfen und wiederherstellen.

### **Ausführen des Volume-Check**

1. Klicken Sie auf die Schaltfläche [Datei wiederherstellen].  
Der Listenbildschirm wird angezeigt.
2. Klicken Sie auf die Schaltfläche [Volume-Check].  
„Möchten Sie den Volume-Check wirklich ausführen?“ erscheint.
3. Klicken Sie auf die Schaltfläche [Ja].  
Der Bildschirm für den Volume-Check wird angezeigt und der Volume-Check beginnt.
4. Wenn der Volume-Check erfolgreich abgeschlossen ist, wird „Es wurde kein Problem festgestellt.“ angezeigt.

Wenn Probleme festgestellt werden, stellen Sie das Volume gemäß den Anweisungen auf dem Bildschirm wieder her.

#### **Hinweis**

Informationen zum Wiederherstellen der beschädigten Dateien finden Sie unter „Ausführen der Dateiwiederherstellung“.

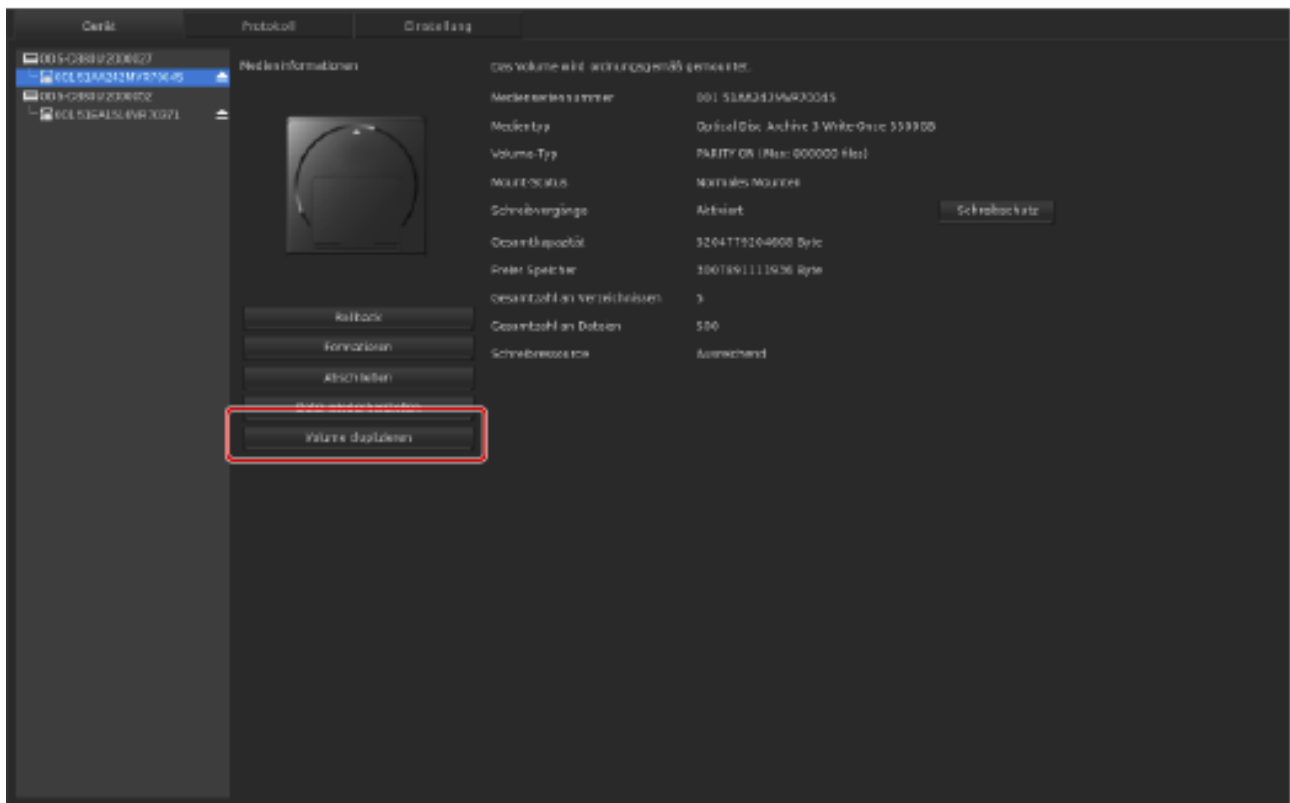
## **Verwandte Themen**

Bildschirm Gerät – Bildschirm-Layout

## **Volume-Duplizierung**

Sie können die ausgewählten Mediendaten auf Volume- oder Ordner Ebene umgehend auf einem anderen Medium duplizieren.

Außerdem können Sie sie auf einem anderen Festplattenlaufwerk als der Optical Disc Archive- Cartridge duplizieren.



## So duplizieren Sie vom Optical Disc Archive-Volume zu einem Volume mit anderem Dateisystem wie beispielsweise einer lokalen Platte

1. Klicken Sie auf die Schaltfläche [Volume duplizieren].  
„Möchten Sie das Volume wirklich duplizieren? Ändern Sie die Dateien während der Volume-Duplizierung bitte nicht.“ erscheint.
2. Klicken Sie auf die Schaltfläche [Ja].  
Wählen Sie [Duplizieren Sie auf Volume-Ebene.] oder [Duplizieren Sie auf Ordner-Ebene.] und klicken Sie dann auf die Schaltfläche [OK]. Bei Auswahl von [Duplizieren Sie auf Ordner-Ebene.] klicken Sie auf die Schaltfläche [Verweis], um den zu duplizierenden Ordner auf dem angezeigten Bildschirm auszuwählen.
3. Wählen Sie [Wählen Sie ein anderes Volume aus.] und klicken Sie dann auf die Schaltfläche [OK].  
Wählen Sie den zu duplizierenden Ordner auf dem angezeigten Bildschirm aus oder erstellen Sie einen neuen Ordner und klicken Sie dann auf die Schaltfläche [OK].
4. Wählen Sie [Beenden Sie die Volume-Duplizierung.] oder [Wiederholen Sie den Schreibvorgang.] und klicken Sie dann auf die Schaltfläche [OK].  
Die Volume-Duplizierung beginnt. Der Duplizierungsstatus wird in der Fortschrittsanzeige angezeigt.

## So duplizieren Sie von einem Optical Disc Archive-Volume auf ein anderes Optical Disc Archive-Volume

1. Klicken Sie auf die Schaltfläche [Volume duplizieren].  
„Möchten Sie das Volume wirklich duplizieren? Ändern Sie die Dateien während der Volume-Duplizierung bitte nicht.“ erscheint.

2. Klicken Sie auf die Schaltfläche [Ja].

Wählen Sie [Duplizieren Sie auf Volume-Ebene.] oder [Duplizieren Sie auf Ordnebene.] und klicken Sie dann auf die Schaltfläche [OK]. Bei Auswahl von [Duplizieren Sie auf Ordnebene.] klicken Sie auf die Schaltfläche [Verweis], um den zu duplizierenden Ordner auf dem angezeigten Bildschirm auszuwählen.

3. Wählen Sie [Wählen Sie das Volume von Optical Disc Archive Drive aus.] und ein anderes Optical Disc Archive-Volume aus dem Pulldown-Menü und klicken Sie dann auf die Schaltfläche [OK].

Beachten Sie, dass Sie einen leeren Ordner auswählen oder einen neuen Ordner erstellen müssen.

4. Wählen Sie [Beenden Sie die Volume-Duplizierung.] oder [Wiederholen Sie den Schreibvorgang.] und klicken Sie dann auf die Schaltfläche [OK].

Die Volume-Duplizierung beginnt. Der Duplizierungsstatus wird in der Fortschrittsanzeige angezeigt.

#### **Tipp**

Wenn Sie ein Duplizierungsziel festlegen und [Disc-Aufteilung einschränken.] auswählen, wird verhindert, dass eine einzelne Datei über mehrere Discs hinweg aufgezeichnet wird.

## **So duplizieren Sie auf dasselbe Optical Disc Archive-Volume**

1. Klicken Sie auf die Schaltfläche [Volume duplizieren].

„Möchten Sie das Volume wirklich duplizieren? Ändern Sie die Dateien während der Volume-Duplizierung bitte nicht.“ erscheint.

2. Klicken Sie auf die Schaltfläche [Ja].

Wählen Sie [Duplizieren Sie auf Volume-Ebene.] auf dem angezeigten Bildschirm und dasselbe Optical Disc Archive-Volume aus dem Pulldown-Menü und klicken Sie dann auf die Schaltfläche [OK].

3. Wählen Sie das Sicherungsziel auf einem anderen Volume und klicken Sie auf die Schaltfläche [OK].

4. Wählen Sie [Beenden Sie die Volume-Duplizierung.] oder [Wiederholen Sie den Schreibvorgang.] und klicken Sie dann auf die Schaltfläche [OK].

Die Volume-Duplizierung von der Duplizierungsquelle zum Sicherungsziel beginnt. Der Duplizierungsstatus wird in der Fortschrittsanzeige angezeigt.

Wenn die Volume-Duplizierung von der Duplizierungsquelle zum Sicherungsziel endet, wird die Cartridge automatisch ausgeworfen und [Legen Sie eine andere Cartridge als Duplizierungsziel ein.] erscheint.

5. Setzen Sie eine Cartridge ein und klicken Sie dann auf die Schaltfläche [OK].

[Einsetzen einer anderen Cartridge] => Schritt 6

[Einsetzen derselben Cartridge] => Schritt 7

6. Wählen Sie [Formatieren Sie das Medium und duplizieren Sie darauf.] oder [Duplizieren Sie in den von Ihnen ausgewählten Ordner.] und klicken Sie dann auf die Schaltfläche [OK].

Die Volume-Duplizierung vom Sicherungsziel zum Duplizierungsziel beginnt. Der Duplizierungsstatus wird in der Fortschrittsanzeige angezeigt.

7. [Dieselbe Cartridge wie die Duplizierungsquelle wurde eingelegt. Es empfiehlt sich, das Medium auf eine andere Cartridge zu duplizieren.] erscheint.

Klicken Sie auf [Neu auswählen] oder [Bestätigen].

Wenn Sie [Neu auswählen] auswählen, wird die Cartridge automatisch ausgeworfen und „Legen Sie eine andere Cartridge als Duplizierungsziel ein.“ erscheint.

Bei Auswahl von [Bestätigen] fahren Sie mit Schritt 6 fort.

### Tipp

Wenn Sie ein Duplizierungsziel festlegen und [Disc-Aufteilung einschränken.] auswählen, wird verhindert, dass eine einzelne Datei über mehrere Discs hinweg aufgezeichnet wird.

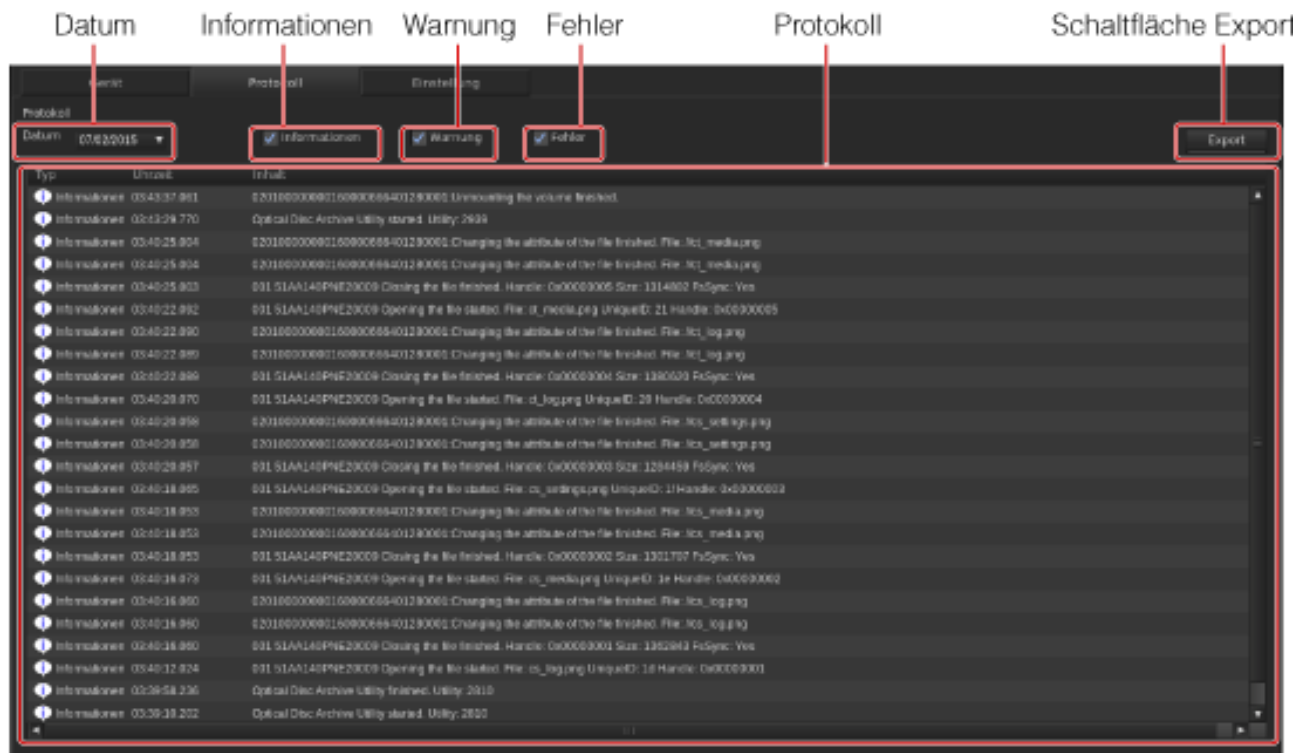
## Verwandte Themen

Bildschirm Gerät – Bildschirm-Layout

## Bildschirm Protokoll

### Bildschirm Protokoll – Bildschirm-Layout

Sie können ein Laufwerksprotokoll anzeigen.



### Datum

Zum Auswählen des Datums des anzuzeigenden Protokolls.

Klicken Sie auf ▼, um die Protokolldaten in Listenform anzuzeigen.

### Protokoll

Zum Anzeigen der Protokollliste für das ausgewählte Datum.

Sie können die Protokolltypen nach [Informationen], [Warnung] oder [Fehler] filtern.

Wenn Sie auf die Liste doppelklicken oder mit der rechten Maustaste darauf klicken, wird ein Dialogfeld mit Details zum Protokoll angezeigt.

Element	Angezeigte Informationen
Typ	Zum Anzeigen des Protokolltyps (Informationen/Warnung/Fehler)

Element	Angezeigte Informationen
Uhrzeit	Uhrzeit der Protokollerstellung
Inhalt	Inhalt des Protokolls

## Schaltfläche Export

Zum Exportieren des Protokolls an den gewünschten Speicherort.

### Hinweis

Sie können die Kapazität für das Optical Disc Archive Drive nicht auswählen.

## Exportieren des Protokolls

1. Klicken Sie auf die Schaltfläche [Export].  
Der Bildschirm [Speichern unter] wird angezeigt.
2. Geben Sie den Dateinamen und das Speicherziel an und klicken Sie auf die Schaltfläche [Speichern].  
„Export abgeschlossen.“ erscheint.
3. Klicken Sie auf die Schaltfläche [Schließen].  
Das Protokoll wird an den angegebenen Ort exportiert.

### Aktualisieren der Anzeige

Wählen Sie [Aktualisieren] aus dem Menü Ansicht aus.

### Hinweis

- Bei der alten Version der Optical Disc Drive-Firmware ist möglicherweise kein Laufwerksprotokoll verfügbar.
- Für ein Laufwerk, in das eine Cartridge eingesetzt ist, ist kein Laufwerksprotokoll verfügbar.

# Bildschirm Einstellung

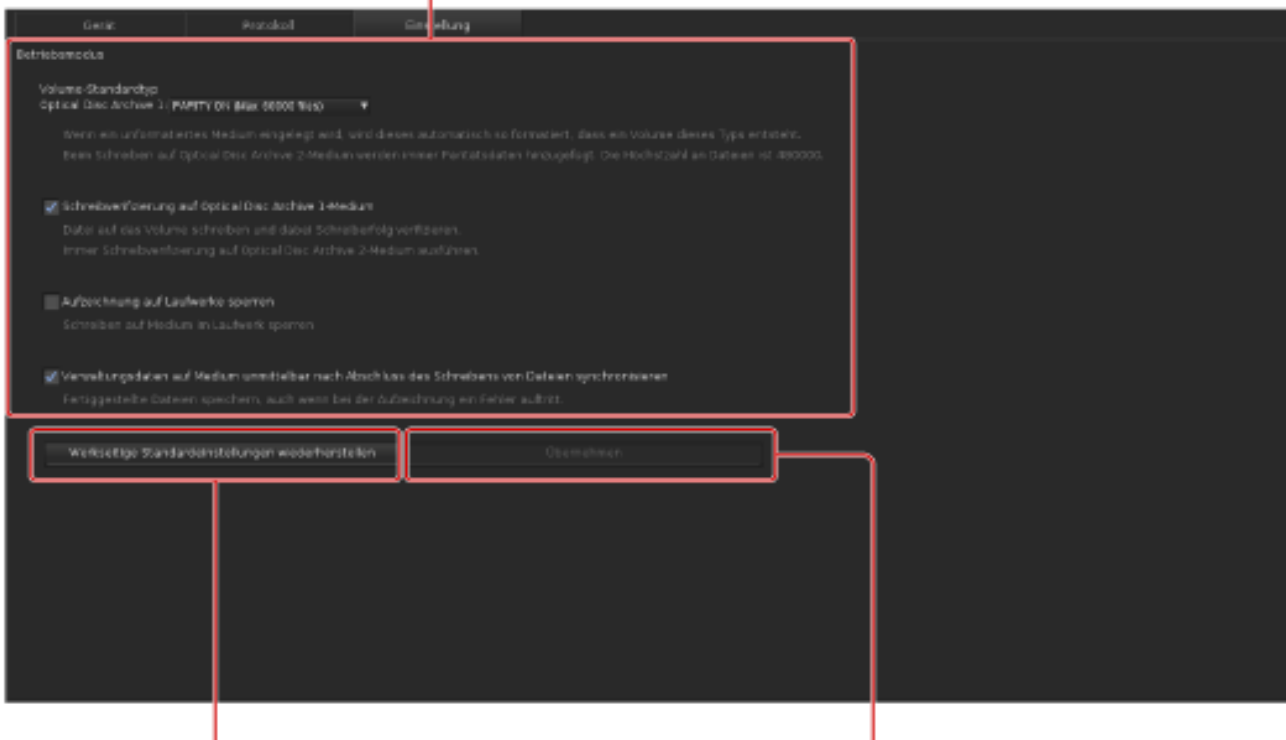
## Bildschirm Einstellung – Bildschirm-Layout

Damit können Sie den Betriebsmodus für das ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U und die Optical Disc Archive Software einstellen.

### Hinweis

Damit eine Änderung an einer Konfiguration wirksam wird, müssen Sie die Cartridge erneut einsetzen.

## Betriebsmodus



Schaltfläche [Werkseitige  
Standardeinstellungen wiederherstellen]

Schaltfläche [Übernehmen]

## Betriebsmodus

Betriebsmodus	Bedeutung
Schreibverifizierung	<p>Schreibverifizierung auf Optical Disc Archive 1-Medium</p> <p>Datei auf das Volume schreiben und dabei Schreiberfolg verifizieren.</p> <p>Immer Schreibverifizierung auf Optical Disc Archive 2/3-Medium ausführen.</p> <p><b>Hinweis</b></p> <p>Die Übertragungsgeschwindigkeit ändert sich. Einzelheiten dazu finden Sie im OPERATION MANUAL zum ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U.</p>
Aufzeichnung auf Laufwerke sperren	Zum Schützen des Laufwerks vor versehentlichem Beschreiben.

Betriebsmodus	Bedeutung
Verwaltungsdaten auf Medium unmittelbar nach Abschluss des Schreibens von Dateien synchronisieren	<p>Zum Speichern fertiger Dateien, auch wenn während der Aufzeichnung ein Fehler auftritt.</p> <p><b>Hinweis</b></p> <p>Betriebsmodus „Dateisystem“: Aktiviert – Standardeinstellung Bereits fertiggestellte Dateien werden selbst bei einer Stromunterbrechung am Laufwerk oder einem Fehler beim Aufzeichnen einer Datei korrekt gespeichert. Beim nächsten Mount-Vorgang des Volume wird nur die Datei gelöscht, die aufgrund einer Störung fehlerhaft aufgezeichnet wurde. Alle anderen fertiggestellten Dateien werden automatisch wiederhergestellt. Dies ist möglich, weil die Systeminformationen beim Aufzeichnen jeder einzelnen Datei aktualisiert und neu geschrieben werden. Es empfiehlt sich, diese Option zu aktivieren, wenn Sicherheit Vorrang hat.</p> <p>Betriebsmodus „Dateisystem“: Deaktiviert Mit dieser Einstellung erzielen Sie beispielsweise beim Aufzeichnen einer Serie kleiner Einzeldateien eine bessere Leistung. Darüber hinaus wird die Cartridge effizienter genutzt. Andererseits gehen im Fall von Problemen wie einer Stromunterbrechung bei der Aufzeichnung von mehreren Dateien unter Umständen Dateien verloren. Dies liegt daran, dass die Systeminformationen nur einmal aktualisiert und neu geschrieben werden, und zwar nach der Aufzeichnung sämtlicher Dateien. Bei einem Problem während der Aufzeichnung erfolgt ein Rollback und der vorherige Zustand, also der Zustand vor der Aufzeichnung der Dateien, wird wiederhergestellt. Beim nächsten Mount-Vorgang des Volume gilt demnach die letzte vollständige Dateisystemaktualisierung, die auf der Cartridge erstellt wurde. Dateien, zu denen keine vollständige Dateisystemaktualisierung vorliegt, sind verloren und können nicht wiederhergestellt werden. Aus diesem Grund empfiehlt es sich in Umgebungen mit instabiler Stromversorgung, den Dateisystem-Betriebsmodus zu aktivieren.</p>

Betriebsmodus	Bedeutung
Volume-Standardtyp	<p>Optical Disc Archive 1 :</p> <p>Wenn ein unformatiertes Medium eingelegt wird, wird dieses automatisch so formatiert, dass ein Volume dieses Typs entsteht.</p> <p>Beim Schreiben auf Optical Disc Archive 2/3-Medium werden immer Paritätsdaten hinzugefügt. Die Höchstzahl an Dateien ist jeweils 480000/800000.</p> <p><b>Hinweis</b></p> <p>Bei einem Schreibvorgang mit Parität können beschädigte Dateien wiederhergestellt werden, da bei „Datei wiederherstellen“ der Fehler mithilfe von Paritätsinformationen korrigiert wird.</p>

### Schaltfläche [Werkseitige Standardeinstellungen wiederherstellen]

Zum Zurücksetzen des Betriebsmodus auf die werkseitigen Standardeinstellungen.

### Schaltfläche [Übernehmen]

Zum Übernehmen des Betriebsmodus.

## Ändern des Betriebsmodus

1. Aktivieren Sie das gewünschte Kontrollkästchen für den Betriebsmodus. Wählen Sie [Volume-Standardtyp] im Pulldown-Menü aus.
2. Klicken Sie auf die Schaltfläche [Übernehmen].  
„Die Einstellung des Betriebsmodus wurde geändert. Legen Sie die Cartridge neu ein, um den neu eingestellten Modus zu aktivieren.“ erscheint.
3. Klicken Sie auf die Schaltfläche [Schließen].
4. Setzen Sie die Cartridge erneut ein.  
Der Betriebsmodus ist nun geändert.

## Zurücksetzen des Betriebsmodus auf die werkseitigen Standardeinstellungen

1. Klicken Sie auf die Schaltfläche [Werkseitige Standardeinstellungen wiederherstellen].  
„Möchten Sie die werkseitigen Standardeinstellungen für den Betriebsmodus wiederherstellen?“ erscheint.
2. Klicken Sie auf die Schaltfläche [Ja].  
„Die Einstellung des Betriebsmodus wurde geändert. Legen Sie die Cartridge neu ein, um den neu eingestellten Modus zu aktivieren.“ erscheint.
3. Klicken Sie auf die Schaltfläche [Schließen].
4. Setzen Sie die Cartridge erneut ein.  
Der Betriebsmodus ist nun auf die werkseitigen Standardeinstellungen zurückgesetzt.

# Anhang

## Alarmcodeliste

Die Alarminhalte, die auf dem Bildschirm Gerät unter den Laufwerksinformationen angezeigt werden, werden je nach dem Status des ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U aufgelistet.

Wenn der Fehler behoben ist, erlischt die Anzeige.

- Alarme beim Einsetzen einer Cartridge
- Alarme während des Betriebs
- Alarme zu Sensoren und Laufwerken

### Alarme beim Einsetzen einer Cartridge

LED <sup>a)</sup>	Alarmcode	Beschreibung	Mögliche Abhilfemaßnahme
Blinkt viermal pro Sekunde	50-010 50-011 51-020 51-021 54-008	Der Verwaltungsbereich der Disc kann nicht gelesen werden.	Nicht verwendbares Medium, setzen Sie eine andere Cartridge ein.
	51-500	Nicht unterstützte Disc. Für das Medium ist die neueste Firmware erforderlich.	Besorgen und installieren Sie die neueste Optical Disc Archive Software und aktualisieren Sie die Firmware.

LED <sup>a)</sup>	Alarmcode	Beschreibung	Mögliche Abhilfemaßnahme
Blinkt einmal pro Sekunde	21-001 6D-000	Diese Cartridge nähert sich dem Ende ihrer Lebensdauer.	Es empfiehlt sich, die Daten auf eine andere Cartridge zu duplizieren.
	21-100	Nicht verwendbares Medium.	Wenden Sie sich an den Sony-Kundendienst.
	21-101	Es liegt möglicherweise ein Problem mit dem Medium vor.	Es empfiehlt sich, die Daten auf eine andere Cartridge zu duplizieren. Zu Einzelheiten siehe die neuesten Versionshinweise.
	21-102	Die Cartridge ist schreibgeschützt montiert.	Es empfiehlt sich, die Daten auf eine andere Cartridge zu duplizieren. Zu Einzelheiten siehe die neuesten Versionshinweise.
	54-009	Die Cartridge und die Disc stimmen nicht überein.	Nicht verwendbares Medium, setzen Sie eine andere Cartridge ein.
	54-000 54-001 54-002 54-003	Format der Disc wird nicht unterstützt.	Nicht verwendbares Medium, setzen Sie eine andere Cartridge ein.
	54-006	Format des Cartridge-Speichers wird nicht unterstützt.	Nicht verwendbares Medium, setzen Sie eine andere Cartridge ein.
	54-004 54-005 54-007 95-517 95-518	Zugriff auf Cartridge-Speicher nicht möglich.	Setzen Sie die Cartridge erneut ein.

a) ALARM-Anzeige am ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U.

## Verwandte Themen

Alarmer während des Betriebs

Alarmer zu Sensoren und Laufwerken

## Alarmer während des Betriebs

LED <sup>a)</sup>	Alarmcode	Beschreibung	Mögliche Abhilfemaßnahme
Blinkt einmal pro Sekunde	6D-001	Nicht verwendbares Medium.	Wenden Sie sich an den Sony-Kundendienst.
	6D-002	Es liegt möglicherweise ein Problem mit dem Medium vor.	Es empfiehlt sich, die Daten auf eine andere Cartridge zu duplizieren. Zu Einzelheiten siehe die neuesten Versionshinweise.
	54-200 54-201 53-502	Im Verwaltungsbereich der Disc wurde ein Fehler erkannt.	Setzen Sie die Cartridge erneut ein.
	54-004 54-005 54-007 95-517 95-518	Zugriff auf Cartridge-Speicher nicht möglich.	Setzen Sie die Cartridge erneut ein.
	54-006	Format des Cartridge-Speichers wird nicht unterstützt.	Nicht verwendbares Medium, setzen Sie eine andere Cartridge ein.
	54-300	Das physische Format der Disc für die Aufnahme wurde wiederhergestellt.	Schalten Sie die Stromversorgung nicht aus, während ein Fehler auftritt. Die Cartridge wird repariert. Da dieser Vorgang einige Minuten dauern kann, warten Sie, bis der Vorgang abgeschlossen ist, bevor Sie das Gerät ausschalten.

LED <sup>a)</sup>	Alarmcode	Beschreibung	Mögliche Abhilfemaßnahme
Leuchtet nicht	22-001	Es wurde mehrfach gleichzeitig auf die Cartridge zugegriffen.	Führen Sie die folgenden Vorgänge nicht aus. Andernfalls kann die Leistung beeinträchtigt werden. <ul style="list-style-type: none"> <li>• Gleichzeitiges Lesen mehrerer Dateien</li> <li>• Lesen (Schreiben) einer Datei, während diese geschrieben (gelesen) wird</li> <li>• Erstellen eines Duplikats einer Datei auf demselben Volume</li> </ul> Einzelheiten dazu finden Sie unter „Nicht zu empfehlende Funktionen“.
	91-552	Mounten ist fehlgeschlagen.	Lassen Sie die Cartridge auswerfen und legen Sie dieselbe Cartridge erneut ein.
	91-553	Ein Fehler ist beim Lesen aufgetreten.	
	91-554	Ein Fehler ist beim Schreiben aufgetreten.	
	91-556	Ein Teil der auf dem Medium aufgezeichneten Parität ist möglicherweise beschädigt.	Es empfiehlt sich, die Daten auf eine andere Cartridge zu duplizieren. Zu Einzelheiten siehe die neuesten Versionshinweise.
	91-558	Die maximale Datenübertragungsgröße für den Fiber-Channel-Host-Bus-Adapter ist nicht korrekt festgelegt.	Einzelheiten dazu finden Sie unter ODS-D380F Technical Note.
	91-559	Auf den Speicherpfad für den Dateisystemcache kann nicht zugegriffen werden.	Wenden Sie sich an den Sony-Kundendienst.

a) ALARM-Anzeige am ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U.

## Verwandte Themen

Alarmer beim Einsetzen einer Cartridge

Alarmer zu Sensoren und Laufwerken

## Alarmer zu Sensoren und Laufwerken

LED <sup>a)</sup>	Alarmcode	Beschreibung	Mögliche Abhilfemaßnahme
Blinkt viermal pro Sekunde	95-50D	Die interne Temperatur des Laufwerks ist abnormal.	Schalten Sie das Laufwerk umgehend aus und lösen Sie das Netzkabel.  Wenn Sie das Laufwerk weiterhin benutzen, steigt die interne Temperatur unter Umständen weiter an, was zu Schäden oder Feuergefahr führen kann.
	95-51D		
	37-901		
	37-A01		
	37-B01		
	37-C01		
	47-901		
	47-A01		
	47-B01		
	47-C01		
Blinkt einmal pro Sekunde	95-50E	Die interne Temperatur des Laufwerks ist angestiegen.	Achten Sie darauf, dass die Lüftungsöffnungen vorne und hinten am Laufwerk nicht blockiert sind und Wärme entweichen kann.
	95-51E		
	37-900		
	37-A00		
	37-B00		
	37-C00		
	95-50F	Die interne Temperatur des Laufwerks ist angestiegen.	Achten Sie darauf, dass die Lüftungsöffnungen vorne und hinten am Laufwerk nicht blockiert sind und Wärme entweichen kann.  Wenn das Problem weiterhin besteht, wenden Sie sich an den Sony-Kundendienst.
	95-51F		
	95-52F		
	3E-500	Das Laufwerk ist nicht horizontal aufgestellt.	Stellen Sie das Laufwerk bitte horizontal auf.
	95-52A	Eine Nichtübereinstimmung der Seriennummer der Laufwerkseinheit wurde erkannt.	Führen Sie die Laufwerksanpassung durch.

LED <sup>a)</sup>	Alarmcode	Beschreibung	Mögliche Abhilfemaßnahme
Blinkt viermal pro Sekunde	3E-501	Das Laufwerk ist nicht horizontal aufgestellt.	Stellen Sie das Laufwerk horizontal auf und schalten Sie es dann aus und wieder ein.
	20-xxx	In der mechanischen Steuerung des Laufwerks ist eine Störung aufgetreten.	Drücken Sie bitte die Taste EJECT und lassen Sie die Cartridge auswerfen, wenn diese nicht ausgeworfen wurde. Schalten Sie das Laufwerk aus und wieder ein, wenn sich die Cartridge nicht auswerfen lässt.
	20-117	In der mechanischen Steuerung des Laufwerks ist eine Störung aufgetreten.	Möglicherweise wurde eine Cartridge eingelegt, die nicht verwendet werden kann.
	52-00B 52-08B 52-10B 52-18B 72-00B 72-08B 72-10B 72-18B	Kein Zugriff auf die Disc.	Setzen Sie die Cartridge erneut ein.
Blinkt einmal pro Sekunde	6F-E00 6F-E80 6F-F00 6F-F80 8F-E00 8F-E80 8F-F00 8F-F80	Schreiben auf die Disc nicht möglich.	Setzen Sie die Cartridge erneut ein.
Blinkt viermal pro Sekunde	6F-E03 6F-E83 6F-F03 6F-F83 8F-E03 8F-E83 8F-F03 8F-F83	Kein Zugriff auf die Disc.	Setzen Sie die Cartridge erneut ein.

LED <sup>a)</sup>	Alarmcode	Beschreibung	Mögliche Abhilfemaßnahme
Blinkt einmal pro Sekunde	3F-511	Der Luftfilter muss ausgetauscht werden.	Tauschen Sie den Luftfilter aus. <sup>b)</sup>
	02-605	Die Lichtmenge im optischen Block hat sich aufgrund von Schmutz und anderen Faktoren verringert.	Wenden Sie sich an den Sony-Kundendienst.
	02-685		
	02-705		
	02-785		
	12-605		
	12-685		
	12-705		
	12-785		

a) ALARM-Anzeige am ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U.

b) Einzelheiten dazu finden Sie in der Bedienungsanleitung.

## Verwandte Themen

Alarmer beim Einsetzen einer Cartridge

Alarmer während des Betriebs

# Informationen zu Optical Disc Archive Utility Command Line Interface

## Übersicht

Optical Disc Archive Utility Command Line Interface ist in Optical Disc Archive Software inbegriffen. Einige der Optical Disc Archive Utility-Funktionen stehen als Befehle in der CUI-Umgebung zur Verfügung.

## Einschränkungen

---

- Der Optical Disc Archive Utility Command Line Interface-Befehl kann nicht mit mehreren Prozessen gleichzeitig ausgeführt werden.
- Der Optical Disc Archive Utility Command Line Interface-Befehl und die GUI-Anwendung von Optical Disc Archive Utility können nicht gleichzeitig verwendet werden.
- Für das Ausführen von Optical Disc Archive Utility Command Line Interface sind Administratorberechtigungen erforderlich.

## Informationen zu Befehlen

---

Die Befehle im Optical Disc Archive Utility Command Line Interface sind hierarchisch aufgebaut. Zum Grundbefehl `oda-util` gibt es Verwaltungsbefehle wie den Befehl `oda-util drive`. Zu Verwaltungsbefehlen gibt es Befehle zum Abrufen von Informationen wie den Befehl `oda-util drive info`.

## Anzeigen der Hilfe

Um die einzelnen Befehle zu nutzen, führen Sie den Befehl mit der Option „`--help`“ aus und lesen dann in der Hilfe nach.

Zum Ausgeben der Hilfe zum Grundbefehl

```
# oda-util --help
```

Zum Ausgeben der Hilfe zum Verwaltungsbefehl

```
# oda-util drive --help
```

Zum Ausgeben der Hilfe zum Befehl

```
# oda-util drive info --help
```

## Anzeigen von Anweisungen

Einzelheiten finden Sie in den Anweisungen. Verwenden Sie dazu den Befehl man wie folgt.

Zum Anzeigen der Anweisungen zum Grundbefehl

```
# man oda-util
```

Zum Anzeigen der Anweisungen zum Verwaltungsbefehl

```
# man oda-util-drive
```

Zum Anzeigen der Anweisungen zum Befehl

```
# man oda-util-drive-info
```

## Befehlsliste

---

### oda-util config

Verwaltungsbefehl zum Steuern der Betriebsmoduseinstellungen der Optical Disc Archive Utility.

Die wichtigsten Funktionen dieses Befehls werden mit den folgenden Befehlen aufgerufen.

#### Verfügbare Befehle

- oda-util config inhibit  
Zum Aktivieren oder Deaktivieren der Schreibschutzfunktion des Laufwerks.
- oda-util config parity  
Zum Einstellen des Volume-Typs auf PARITY ON oder PARITY OFF, wenn unformatierte Optical Disc Archive 1-Medien eingesetzt werden.
- oda-util config sync  
Zum Einstellen, ob Verwaltungsdaten auf dem Medium unmittelbar nach Abschluss des Schreibens von Dateien auf dem Medium synchronisiert werden sollen.
- oda-util config verify  
Zum Aktivieren oder Deaktivieren der Schreibverifizierung von Optical Disc Archive 1-Medien.

### oda-util drive

Verwaltungsbefehl zum Steuern des Laufwerks.

Die wichtigsten Funktionen dieses Befehls werden mit den folgenden Befehlen aufgerufen.

#### Verfügbare Befehle

- oda-util drive afpreset  
Zum Zurücksetzen von Air Filter Parameter für das Laufwerk.
- oda-util drive info  
Zum Ausgeben der Laufwerksinformationen.
- oda-util drive update  
Zum Aktualisieren der Laufwerksfirmware.

- oda-util drive version

Zum Anzeigen der Version der Laufwerksfirmware und ob eine Aktualisierung möglich ist.

## **oda-util log**

Verwaltungsbefehl zum Steuern des Protokolls.

Die wichtigsten Funktionen dieses Befehls werden mit den folgenden Befehlen aufgerufen.

### **Verfügbare Befehle**

- oda-util log export

Zum Exportieren des Protokolls.

## **oda-util media**

Verwaltungsbefehl zum Steuern der Medien.

Die wichtigsten Funktionen dieses Befehls werden mit den folgenden Befehlen aufgerufen.

### **Verfügbare Befehle**

- oda-util media finalize

Zum Abschließen der Medien. (nur einmal beschreibbare Medien)

- oda-util media format

Zum Formatieren der Medien.

- oda-util media info

Zum Ausgeben von Medieninformationen.

- oda-util media label

Zum Einstellen der Volume-Bezeichnung der Medien.

- oda-util media protect

Zum Aktivieren oder Deaktivieren der Schreibschutzeinstellungen für die Medien.

# Informationen zum Dateisystem

## Übersicht

Dieser Abschnitt enthält eine Übersicht über das Dateisystem.

- Mount-Funktionen
- Einschränkungen
- Nicht zu empfehlende Funktionen

## Mount-Funktionen

---

Mit [Volume] bezeichnet man das Dateisystem des formatierten Mediums.

[Mounten] bezeichnet den Status, in dem auf das Volume zugegriffen werden kann.

Das Volume wird vom System automatisch auf dem Desktop gemountet. Auf dem zurzeit unterstützten RHEL6-System wird es unter dem Verzeichnis /media/ gemountet. Auf dem RHEL7-System wird es unter dem Verzeichnis /run/media/user\_name/ gemountet.

Wenn das Geräteverwaltungstool nicht funktioniert, mounten Sie das Volume wie im folgenden Beispiel manuell.

```
mount -t odaudf /dev/sdx/*mount-point
```

\*Geben Sie das Mount-Verzeichnis zum mount-point an.

Zum Ausführen des Befehls mount benötigen Sie Root-Berechtigung.

Wenn der Dateisystemtyp nicht auf odaudf gesetzt ist, seien Sie vorsichtig, da die Funktion unter Umständen nicht korrekt ausgeführt wird.

### Hinweis

Wenn Sie ein Verzeichnis festlegen, das eingebunden werden soll, können Sie möglicherweise abhängig vom Betriebssystem kein Verzeichnis als Einstiegspunkt festlegen, das nicht leer ist. Erstellen Sie in diesem Fall keine neue Datei bzw. kein neues Verzeichnis unter dem festgelegten Verzeichnis.

### Bei einem leeren Medium

Wenn das Medium in das Laufwerk eingesetzt wird, wird es automatisch formatiert. Danach wird es als leeres Volume, das keine Dateien und Verzeichnisse enthält, gemountet.

#### Optical Disc Archive 1-Medium

Sie können vorab je nach Volume-Typ auf dem Bildschirm Einstellung bzw. je nach Regeln der Utility einen der folgenden Volume-Typen auswählen.

- PARITY ON (max. 60.000 Dateien)  
Mit diesem Format können bis zu 60.000 Dateien (einschließlich Verzeichnissen) erstellt werden.  
Beim Aufzeichnen einer Datei werden automatisch redundante Paritätsdaten erstellt. Diese Paritätsdaten werden herangezogen, wenn eine Dateiwiederherstellung erforderlich wird.
- PARITY OFF (max. 240.000 Dateien)  
Mit diesem Format können bis zu 240.000 Dateien (einschließlich Verzeichnissen) erstellt werden.  
Beim Aufzeichnen einer Datei werden keine Paritätsdaten erstellt.

#### Optical Disc Archive 2-Medium

- PARITY ON (max. 480.000 Dateien)

Mit diesem Format können bis zu 480.000 Dateien (einschließlich Verzeichnissen) erstellt werden.

Beim Aufzeichnen einer Datei werden automatisch redundante Paritätsdaten erstellt.

Diese Paritätsdaten werden herangezogen, wenn eine Dateiwiederherstellung erforderlich wird.

#### Optical Disc Archive 3-Medium

- PARITY ON (max. 800.000 Dateien)

Mit diesem Format können bis zu 800.000 Dateien (einschließlich Verzeichnissen) erstellt werden.

Beim Aufzeichnen einer Datei werden automatisch redundante Paritätsdaten erstellt.

Diese Paritätsdaten werden herangezogen, wenn eine Dateiwiederherstellung erforderlich wird.

### **Bei einem wiederbeschreibbaren Medium**

Wenn ein Medium mit einem der obigen Volume-Typen formatiert wurde, können Sie den Volume-Typ ändern, indem Sie beim Formatieren mit der Utility [Stellen Sie die Kapazität des Mediums wieder her.] auswählen.

(Informationen dazu finden Sie unter Ausführen der Formatierung (Wiederherstellen der Kapazität).)

### **Bei einem einmal beschreibbaren Medium**

Sie können den Volume-Typ eines Mediums, das bereits mit einem der obigen Volume-Typen formatiert wurde, nicht ändern.

### **Bei einem bereits formatierten Medium**

Sie können auf Dateien und Verzeichnisse, die auf dem Volume erstellt wurden, zugreifen.

Wenn das Volume nicht schreibgeschützt ist, können Sie neue Dateien und Verzeichnisse erstellen.

Sie können zudem bereits erstellte Dateien und Verzeichnisse lesen, anzeigen, löschen, verschieben sowie ihre Namen und Attribute ändern und die Volume-Bezeichnung ändern.

Wenn das Aufzeichnen auf das Volume deaktiviert oder eingeschränkt ist, können Sie Dateien und Verzeichnisse lesen und anzeigen, aber Sie können keine Dateien und Verzeichnisse erstellen oder verschieben, ihre Namen und Attribute nicht ändern und die Volume-Bezeichnung nicht ändern.

Über den Bildschirm Gerät/Medieninformationen/Aufzeichnung der Utility können Sie überprüfen, ob das Volume beschreibbar ist oder nicht.

### **Wenn das Medium aufgrund eines Problems nicht gemountet werden kann**

Sie haben keinen Zugriff auf die Dateien oder Verzeichnisse, die auf dem Volume erstellt wurden.

Überprüfen Sie über den Bildschirm Gerät/Medieninformationen/Mount-Status der Utility den Mount-Status des Volume.

## **Verwandte Themen**

Bildschirm Gerät – Formatieren

# Einschränkungen

## Höchstzahl an Dateien und Verzeichnissen

Je nach Volume-Typ können Sie die folgende Anzahl an Dateien und Verzeichnissen erstellen.

Optical Disc Archive 1-Medium

- PARITY ON (max. 60.000 Dateien): Bis zu 60.000
- PARITY OFF (max. 240.000 Dateien): Bis zu 240.000

Optical Disc Archive 2-Medium

- PARITY ON (max. 480.000 Dateien): Bis zu 480.000

Optical Disc Archive 3-Medium

- PARITY ON (max. 800.000 Dateien): Bis zu 800.000

Das Stammverzeichnis zählt als ein Verzeichnis. Auch bei einem leeren Volume gibt es zumindest ein Verzeichnis (Stammverzeichnis).

## Datei- und Verzeichnisebenen

Sie können bis zu 64 Ebenen für Dateien und Verzeichnisse erstellen.

Das Stammverzeichnis zählt als eine Ebene.

Eine im Stammverzeichnis erstellte Datei gilt als zweite Ebene.

## Dateiname

Für Datei- und Verzeichnisnamen können Sie 1 bis 127 Unicode 2.0-Zeichen eingeben.

Die Zeichen in Surrogatpaaren werden als zwei Zeichen gezählt.

Die folgenden Zeichen sind für Namen nicht zulässig.

Code	Zeichen
U+0000	(null)
U+002F	/ (Schrägstrich)

Ein Name darf nicht lediglich aus einem „.“ (Punkt) oder „..“ (aufeinanderfolgenden Punkten) bestehen.

Sie können keine identischen Dateinamen mit unterschiedlicher Groß-/Kleinschreibung (IGNORE CASE) im gleichen Verzeichnis verwenden.

Ein Name darf im Stammverzeichnis nicht lediglich aus „\$“ (Dollarzeichen) oder „\$\$“ (aufeinanderfolgenden Dollarzeichen) bestehen.

## Volume-Bezeichnung

Für die Volume-Bezeichnung können Sie 1 bis 63 Zeichen in Unicode 2.0 eingeben.

Die Zeichen in Surrogatpaaren werden als zwei Zeichen gezählt.

Die folgenden Zeichen sind für Namen nicht zulässig.

Code	Zeichen
U+0000 - U+001F	
U+0022	" (doppeltes Anführungszeichen)
U+002A	* (Stern)

U+002F	/ (Schrägstrich)
U+003A	: (Doppelpunkt)
U+003C	< (kleiner als)
U+003E	> (größer als)
U+003F	? (Fragezeichen)
U+005C	\ (Umgekehrter Schrägstrich oder Yen-Zeichen)
U+007C	(senkrechter Strich)
U+007F	(Löschen)

Sie können einen „.“ (Punkt) nicht an den Anfang einer Zeichenfolge stellen.

## Dateiaufzeichnung

Im Aufzeichnungsmodus können Sie nur eine einzige Datei öffnen. Die Aufzeichnung erfolgt immer sequenziell.

Normalerweise kann eine aufgezeichnete Datei im Aufzeichnungsmodus nicht geöffnet werden.

Die folgende Datei kann im Aufzeichnungsmodus geöffnet werden und im Rahmen der sequenziellen Aufzeichnung zusätzlich aufgezeichnet werden.

- Zuletzt aufgezeichnete Datei
- Dateien der Größe null (0).

Des Weiteren wird möglicherweise eine Sparse-Datei nicht aufgezeichnet, wenn der Kopieren-Standardbefehl verwendet wird. Zu Einzelheiten siehe die neuesten Versionshinweise.

## Nicht zu empfehlende Funktionen

Dateien auf Quelle und Ziel können verloren gehen, wenn während der Dateiverschiebung ein Problem auftritt. Verschieben Sie keine Dateien, wenn die Gefahr besteht, dass ein Problem auftritt.

Wenn an der Cartridge eine der folgenden nicht zu empfehlenden Funktionen ([1] bis [4]) ausgeführt wird, verlangsamt sich der Zugriff auf die Cartridge. Wenn dieser Zustand längere Zeit anhält, wird der Zugriff auf die Cartridge vorübergehend gesperrt.

Dieses Problem lässt sich beheben, indem die Cartridge neu eingesetzt wird.

Führen Sie anstelle der nicht zu empfehlenden Funktionen die möglichen Abhilfemaßnahmen aus.

Nicht zu empfehlende Funktionen	Mögliche Abhilfemaßnahme
<p>[1]</p> <p>Gleichzeitiges Lesen von Dateien</p> <p>Beispiel:</p> <p>In Nautilus wird eine auf dem ODA-Medium aufgezeichnete Datei per Ziehen und Ablegen in den lokalen Ordner kopiert und gleichzeitig ziehen Sie eine andere Datei auf dem ODA-Medium in den lokalen Ordner und legen sie dort ab.</p> <p>Solche gleichzeitigen Vorgänge sollten keinen Fehler verursachen. Wenn sich die beiden Dateien allerdings auf verschiedenen Discs befinden, verringert sich die Übertragungsrate erheblich, da die Discs nach jeweils 64 KB bis 1 MB kopierter Daten gewechselt werden. Auch die Haltbarkeit des Mediums wird dadurch beeinträchtigt.</p>	<p>Warten Sie, bis das Kopieren der ersten Datei in den lokalen Ordner (Festplatte des Computers oder anderes Medium) beendet ist, und kopieren Sie erst dann die nächste Datei.</p>
<p>[2]</p> <p>Lesen einer Datei während einer Aufzeichnung oder Aufzeichnen einer Datei während eines Lesevorgangs</p> <p>Beispiel:</p> <p>In Nautilus wird eine Datei im lokalen Ordner per Ziehen und Ablegen auf das ODA-Medium kopiert und gleichzeitig kopieren Sie eine andere Datei auf dem ODA-Medium per Ziehen und Ablegen in den lokalen Ordner.</p> <p>Diese beiden Vorgänge werden ausgeführt, aber wenn sich die Dateien auf verschiedenen Discs befinden, verringert sich die Übertragungsrate erheblich, da die Discs nach jeweils 64 KB bis 32 MB kopierter Daten gewechselt werden. Auch die Haltbarkeit des Mediums wird dadurch beeinträchtigt.</p>	<p>Warten Sie, bis das Kopieren der Datei auf das ODA-Medium beendet ist, und kopieren Sie erst dann die Datei auf dem Medium in den lokalen Ordner (Festplatte des Computers oder anderes Medium).</p>

Nicht zu empfehlende Funktionen	Mögliche Abhilfemaßnahme
<p>[3]</p> <p>Erstellen eines Duplikats einer Datei auf demselben Volume</p> <p>Beispiel:</p> <p>Sie klicken in Nautilus mit der rechten Maustaste auf die Datei auf dem ODA-Medium, ziehen sie in den Ordner und wählen dann [Hierher kopieren].</p> <p>Dieser Kopiervorgang verursacht keinen Fehler, aber wenn sich die Dateien auf verschiedenen Discs befinden, verringert sich die Übertragungsrate erheblich, da die Discs nach jeweils 64 KB bis 32 MB kopierter Daten gewechselt werden. Auch die Haltbarkeit des Mediums wird dadurch beeinträchtigt.</p>	<p>Warten Sie, bis das Kopieren der Datei auf die Festplatte des Computers (oder auf ein anderes Medium) beendet ist, und kopieren Sie die Datei dann erneut von der Festplatte auf das ODA-Medium.</p>
<p>[4]</p> <p>Lesen einer Datei, die sich über mehr als eine Disc erstreckt</p> <p>Beispiel:</p> <p>Bei der Wiedergabe einer Clip-Datei, die sich über mehrere Discs auf dem ODA-Medium erstreckt, mithilfe von XDCAM Viewer bewegt sich der Schieberegler auf der Positionsanzeige wiederholt von einer Seite zur anderen.</p> <p>Die Übertragungsrate verringert sich erheblich, da die Discs häufig gewechselt werden. Auch die Haltbarkeit des Mediums wird dadurch beeinträchtigt.</p>	<p>Kopieren Sie die Datei auf die Festplatte des Computers (oder auf ein anderes Medium) und starten Sie die normale Wiedergabe (bzw. das Scrubbing usw.) der kopierten Datei auf diesem Medium.</p> <p>Wenn Sie zum Aufzeichnen auf das ODA-Medium Content Manager (für ODA empfohlene Software) verwenden, lässt sich das Aufzeichnen über mehrere Discs hinweg unterbinden. (Wenn die Datei allerdings größer als der verfügbare Speicherplatz ist, lässt sich nicht immer verhindern, dass die Datei auf mehrere Discs verteilt wird.)</p>

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- Qt 6.2

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To download, please access the following URL:

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Module: KWin, version 5.13.4

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

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```
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Module: Vulkan Memory Allocator, version 2.3.0

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