

Optical Disc Archive Utility

説明

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

關於 Optical Disc Archive Software

概述

此軟體可以為連接 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 的電腦上的 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 執行以下功能。

- **資訊顯示功能**
 - 磁碟機資訊
 - 媒體資訊
- **設定功能**
 - 操作模式設定
 - 使用卡匣記憶體的媒體防寫設定
- **媒體處理功能**
 - 復原
 - 格式化
 - 封片
 - 復原檔案
 - 複製磁碟區
- **維護功能**
 - 更新韌體
 - 記錄檔顯示和匯出
 - 系統檢查

相關手冊

OPERATION MANUAL

ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 隨附本手冊。

本手冊說明如何使用 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 以及隨附軟體。

系統需求

此軟體需要符合以下需求的電腦系統。

項目	需求
處理器	ODS-D55U/D77U/D77UA : Intel Core 2 Duo 2.66 GHz 或更高， 或是 Intel Xeon 2.0 GHz 或更高 ODS-D280U : 第 3 代 Intel Core i5 2.5 GHz 或更高， 或是 Intel Xeon 2.27 GHz 或更高 ODS-D380U : 第 6 代 Intel Core i5 2.3 GHz， 或是 Intel Xeon 2.0 GHz 或更高
記憶體	ODS-D55U/D77U/D77UA : 2 GB × (所連接裝置數目 + 1) 或更多 ODS-D280U/D380U : 4 GB × (所連接裝置數目 + 1) 或更多
安裝目標位置可用空間	ODS-D55U/D77U/D77UA : 32 GB + 16 GB × (所連接裝置數目 + 1) 或更多 ODS-D280U : 32 GB + 32 GB × (所連接裝置數目 + 1) 或更多 ODS-D380U : 64 GB + 64 GB × (所連接裝置數目 + 1) 或更多
作業系統	請參見 Sony 專業產品網站 ^{a)} 。
其他	ODS-D55U/D77U/D77UA : 高速 USB (USB 2.0) (需要高速 USB (USB 2.0) 主機控制器) 超高速 USB (USB 3.2) (需要超高速 USB 主機控制器) ODS-D280U : 超高速 USB (USB 3.2) (需要超高速 USB 主機控制器) ODS-D380U : 超高速 USB 10 Gbps (USB 3.2) (需要超高速 USB 10 Gbps (USB 3.2) 主機控制器) 超高速 USB (USB 3.2) ^{b)} (需要超高速 USB 主機控制器)

a) Sony 專業產品網站

日本

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

日本以外的國家 / 地區

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

(您可以在頁面底部的 [Change Country, Region or Language] 下選取您所在地區和您的語言。 此外，您可以透過搜尋目標機型名稱 (例如 “ODS-380U”) 取得此軟體與文件。)

b) 超高速 USB (USB 3.2) 連線可能無法達到所需的傳輸速度。

建議的電腦設定

Optical Disc Archive 媒體會被辨識為作業系統上的一個磁碟區。如果從作業系統意外存取，讀 / 寫效率可能會降低，因為硬碟等隨機存取裝置的存取效率可能不同。

以下建議電腦設定能使 Optical Disc Archive 發揮最大的讀 / 寫效率。

由於以下設定會影響 Optical Disc Archive Drive 除外的磁碟區，因此建議您完全瞭解變更設定會造成的影響。

注意

以下步驟因作業系統版本而異。

以下步驟適用於當控制台的顯示方法設定為 [大圖示] 時。

1. 將自動播放設為關閉

[開始] 按鈕 > [控制台] > [自動播放] > 取消選取 [所有媒體與裝置都使用自動播放功能] 的核取方塊，然後按一下 [儲存] 按鈕。

2. 將檔案總管的縮圖顯示設為關閉

[開始] 按鈕 > [控制台] > [資料夾選項] > 勾選 [檢視] 標籤中 [進階設定] 的 [一律顯示圖示，不顯示縮圖] 核取方塊，然後按一下 [確定] 按鈕。

3. 將檔案總管的詳細資料與預覽視窗設為關閉

啟動 [檔案總管]，從 [組和管理] 中選擇 [版面配置]，然後將 [詳細資料窗格] 與 [預覽窗格] 設為關閉。

4. 電腦的電源設定

[開始] 按鈕 > [控制台] > [電源選項] > [電腦休眠時變更] > 將 [讓電腦睡眠] 設為 [永不]，然後按一下 [儲存變更] 按鈕。

注意

我們不建議由電池驅動連接 Optical Disc Archive 裝置的電腦。

5. 將 USB 選擇性暫停設定為關閉

從 [開始] 按鈕 > [控制台] > [電源選項] > [變更計劃設定] > [變更進階電源設定] 的下拉式選單中選擇作用中的電源計劃，將 [USB 設定] > [USB 選擇性暫停設定] 的 [電池使用中] 和 [一般電源] 設定為 [已停用]，然後按一下 [確定] 按鈕。

6. 將自動更新功能設為關閉

[開始] 按鈕 > [控制台] > [Windows Update] > [變更設定] > 將 [重要更新] 設為 [檢查更新，但是讓我選擇是否要安裝它們]，然後按 [確定] 按鈕。

當卡匣未插入磁碟機時，若要在檔案總管上顯示磁碟機，請執行以下設定。

Windows Server 2008 R2 的預設設定設為開啟。

<Windows7>

啟動 [檔案總管] > [組和管理] > [資料夾選項] > 選擇 [檢視] 標籤，然後取消選取 [隱藏電腦資料夾中空的磁碟機] 的核取方塊。

關於 Optical Disc Archive Utility

啟動和結束軟體

啟動

首先確定 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 已連接電腦。


關於連接的詳細資料，請參閱 OPERATION MANUAL。

若要啟動此軟體，請執行以下操作之一。

- 按一下 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 所連接電腦上的 [開始] 按鈕，然後選擇 [Sony Optical Disc Archive Software] > [Optical Disc Archive Utility]。
- 開啟安裝此軟體的資料夾，然後按兩下 [ODAUtility.exe]。
- 如果您在安裝此軟體時在桌面上建立了捷徑圖示，請按兩下該圖示。

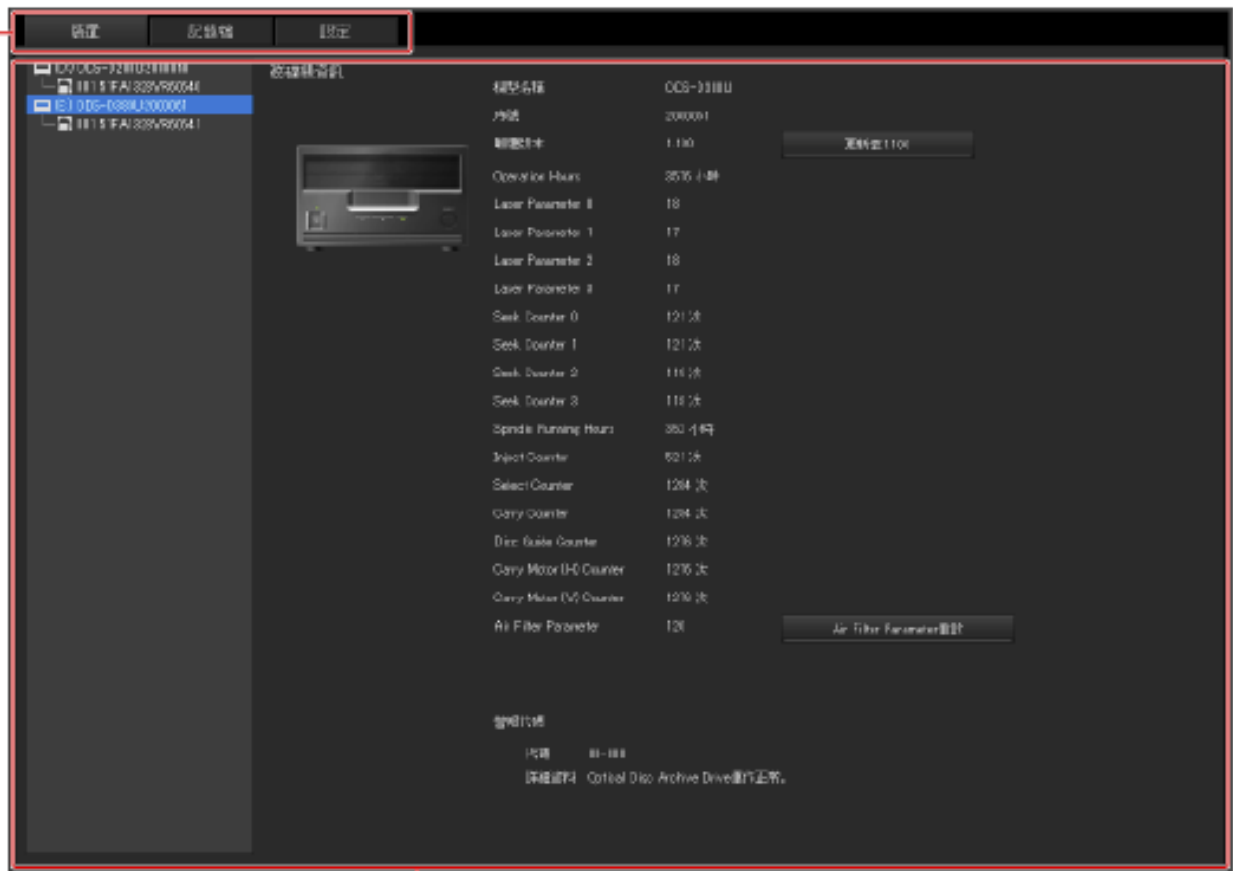
結束

執行以下操作之一。

- 按一下視窗右上角的 （關閉）按鈕。
- 在標題列上按右鍵，然後從內容功能表中選擇 [關閉]。
- 此軟體作用中時，按 Alt + F4（按住 Alt 鍵並按 F4 鍵）。
- 從功能表列中選擇 [檢視] > [關閉]。

畫面結構

標籤



資訊顯示區/操作區

功能表列

按一下功能表名稱可顯示該功能表的指令。

標籤

切換裝置畫面、記錄檔畫面和設定畫面。

提示

您也可以使用 Tab 鍵和方向鍵選擇功能選單和功能表項目。此外，Enter 鍵可以用來展開子功能表和顯示操作畫面。

資訊顯示區 / 操作區

顯示在標籤中選取的畫面。

功能表列項目

功能表列包含以下功能表和指令。

檢視功能表

更新

將資訊顯示區 / 操作區中顯示的內容更新為最新資料。 記錄檔畫面中的記錄檔項目將重新排序。

關閉

關閉此軟體的視窗。

工具功能表

系統檢查

確定 Optical Disc Archive Software 是否正確運作。

此項使用 EEMBC 基準軟體 CoreMark-Pro，以測量 CPU 的性能。



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

注意

這不表示性能有保證。

檔案快取目的地變更

變更儲存檔案快取的目的地。

說明功能表

說明

顯示此軟體的說明（本視窗）。

版本資訊

顯示 [Optical Disc Archive Software] 的版本資訊。

相關主題

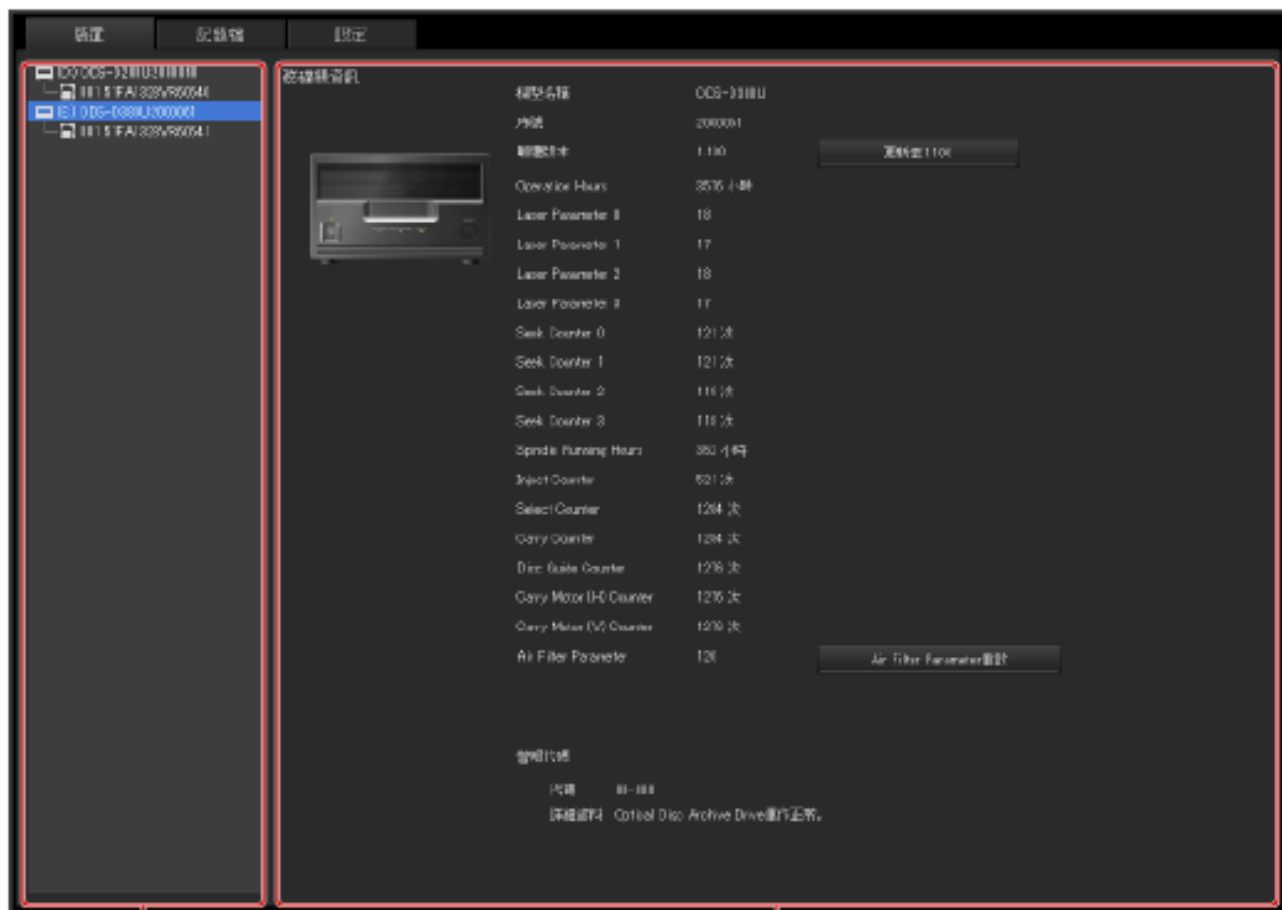
啟動和結束軟體

操作畫面的功能

裝置畫面

裝置畫面 - 畫面結構

樹狀結構顯示 - 磁碟機資訊



樹狀結構顯示

資訊顯示區/操作區

樹狀結構顯示 - 媒體資訊



連接的磁碟機（磁碟機字母、機型名稱和序號）以及媒體會顯示在樹狀結構顯示中。連接兩個或更多個磁碟機時，它們將依磁碟機字母順序遞增排序並顯示在清單中。關於所選磁碟機或媒體的資訊將顯示在清單右側的資訊顯示區 / 操作區。

注意

- 一台電腦可以連接四個磁碟機。
- 若無法退出媒體，請確保沒有其他應用程式正在使用卡匣。

資訊顯示區 / 操作區

顯示資訊，或是操作在樹狀結構顯示中選取的磁碟機或媒體。

磁碟機資訊

項目	顯示的資訊
機型名稱	所選磁碟機的名稱（ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U）
序號	所選 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 的序號
韌體版本	所選 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 的韌體版本
Operation Hours ^{a)}	ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 已開機的總時數（單位：小時）
Laser Parameter 0 至 3 ^{a)}	光學頭的累計光輸出時間

項目	顯示的資訊
Seek Counter 0 至 3 ^{a)}	光學頭的累計搜尋操作次數
Spindle Running Hours ^{a)}	累計主軸旋轉時間（單位：小時）
Inject Counter ^{a)}	插入卡匣的累計次數
Select Counter ^{a)}	內部光碟的選取次數
Carry Counter ^{a)}	內部光碟的進位次數
Disc Guide Counter	使用光碟托的光碟累計進位次數
Carry Motor (H) Counter	使用 Carry Motor (H) 的光碟累計進位次數
Carry Motor (V) Counter	使用 Carry Motor (V) 的光碟累計進位次數
Air Filter Parameter	空氣過濾器累計執行時間（可重設） ^{b)}
警報代碼	顯示關於所選磁碟機可能已發生的所有警報資訊。

a) 此畫面顯示關於 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 操作歷史的資訊。使用此資訊做為定期維護排程的參考。關於定期維護的詳細資料，請洽詢您的 Sony 維修人員。

b) 關於如何重設 Air Filter Parameter 的詳細資料，請參閱空氣過濾器隨附的安裝手冊（RP）。

注意

視機型而定，不顯示某些項目。

磁碟機操作

項目	資訊
更新至 1.090 ^{c)}	所選磁碟機的韌體版本

c) 此套件的韌體版本為 1.090 時更新。

媒體資訊

項目	顯示的資訊
媒體序號	所選媒體的序號
媒體類型	所選媒體的類型和容量 <ul style="list-style-type: none"> Optical Disc Archive 1 Rewritable 300GB Optical Disc Archive 1 Rewritable 600GB Optical Disc Archive 1 Rewritable 1200GB Optical Disc Archive 1 Write-Once 300GB Optical Disc Archive 1 Write-Once 600GB Optical Disc Archive 1 Write-Once 1500GB Optical Disc Archive 2 Write-Once 3300GB Optical Disc Archive 3 Write-Once 5500GB
磁碟區類型	所選媒體的磁碟區類型
掛接狀態	所選媒體的掛接狀態
寫入操作	能否可寫入所選媒體。
總容量	所選媒體的總容量
可用空間	所選媒體的寫入可用性
目錄總數	所選媒體的目錄總數
檔案總數	所選媒體的檔案總數
重新寫入計數	所選媒體的累計重複寫入次數（僅顯示可重複寫入媒體）
格式化計數	所選媒體的累計格式化次數（僅顯示可重複寫入媒體）
寫入資源	顯示 [空白]、[少] 或 [完整]。（僅顯示 WO 媒體）

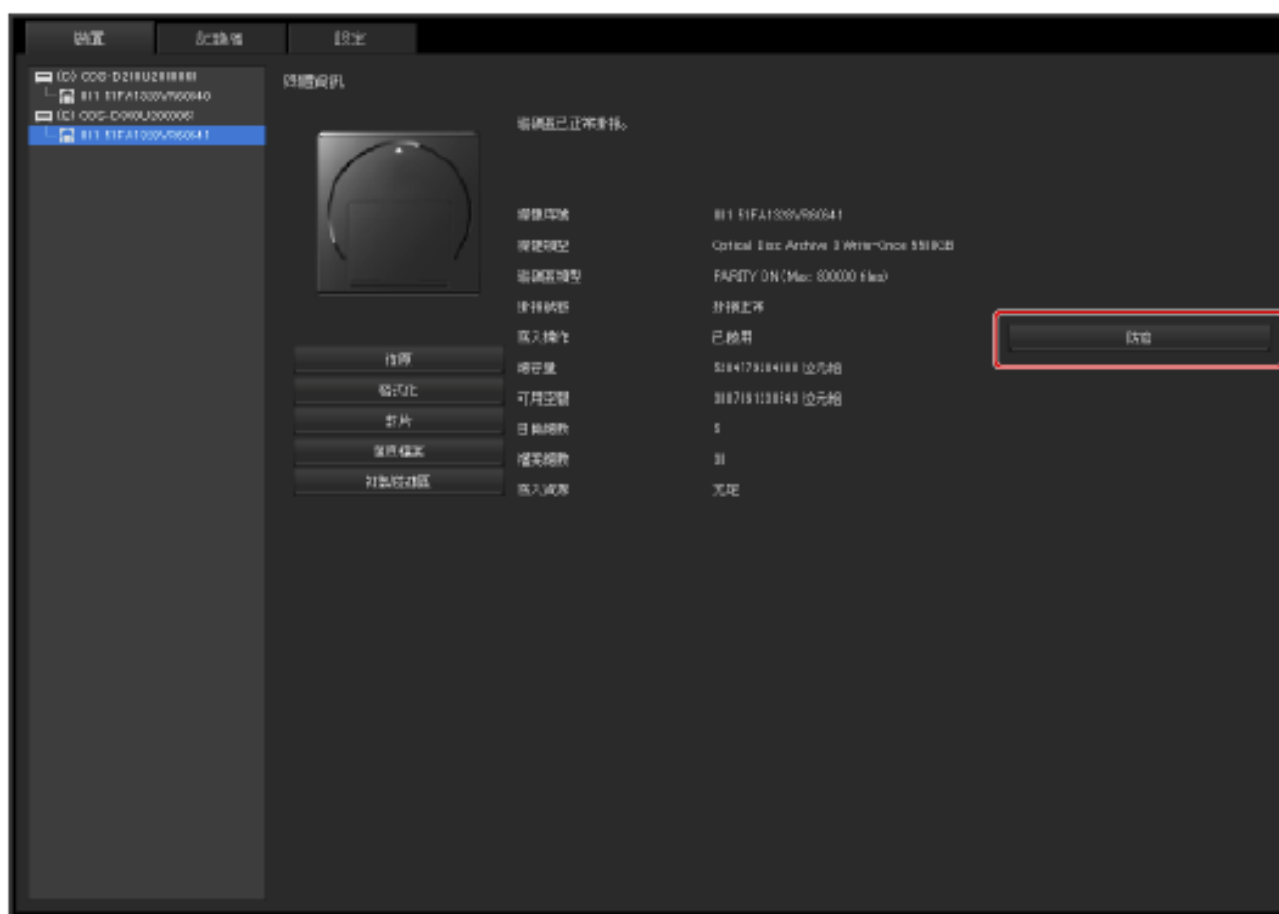
媒體操作

項目	資訊
[復原] 按鈕	開始搜尋復原點。
[格式化] 按鈕	開始格式化。
[封片] 按鈕	開始封片。
[復原檔案] 按鈕	顯示復原檔案清單畫面。
[防寫 (或防寫解除)] 按鈕	開始設定或解除防寫。
[複製磁碟區] 按鈕	開始複製磁碟區。

相關主題

警報代碼

裝置畫面 – 媒體的防寫設定



使用卡匣記憶體體的媒體防寫設定

1. 按一下 [防寫] 按鈕。
“您想要變更防寫設定嗎？若是，卡匣會自動退出。” 訊息出現。
2. 按一下 [套用] 按鈕。
媒體防寫，並且退出卡匣。

若要為使用卡匣記憶體的媒體解除防寫

1. 按一下 [防寫解除] 按鈕。

“您想要變更防寫設定嗎？若是，卡匣會自動退出。” 訊息出現。

2. 按一下 [套用] 按鈕。

媒體防寫解除，並且退出卡匣。

警報代碼

此畫面顯示關於所選 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 可能已發生的所有警報資訊。這些資訊將被保存，直到錯誤消除。

代碼

此項顯示所選 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 已發生的警報代碼編號。

詳細資料

此項顯示關於所選 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 已發生的警報資訊以及處理方式的資訊。

關於警報的詳細資料，請參見警報代碼清單。

重新整理畫面

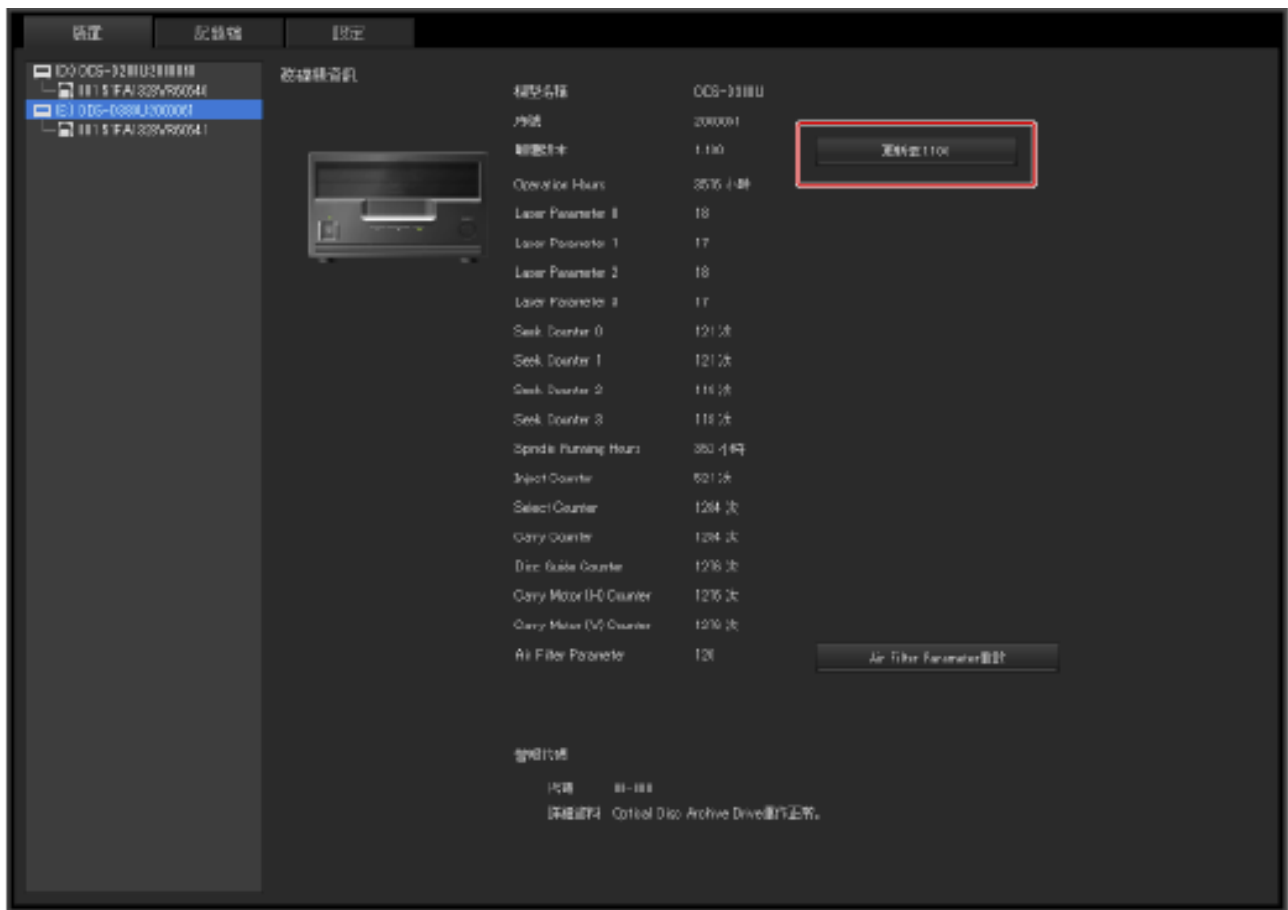
從檢視功能表中選擇 [更新]。

相關主題

裝置畫面 - 畫面結構

更新韌體

更新 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 的韌體。



如何更新韌體

1. 按一下 [更新至 1.630] 按鈕 ^{a)}。

“您是否要更新韌體？” 訊息出現。

2. 按一下 [是] 按鈕。

“更新韌體中。 在更新時， 不要關閉電腦和磁碟機的電源； 不要拔出電纜。” 訊息出現， 並開始更新。

經過一段時間之後， 磁碟機會重新啟動， 更新會完成。

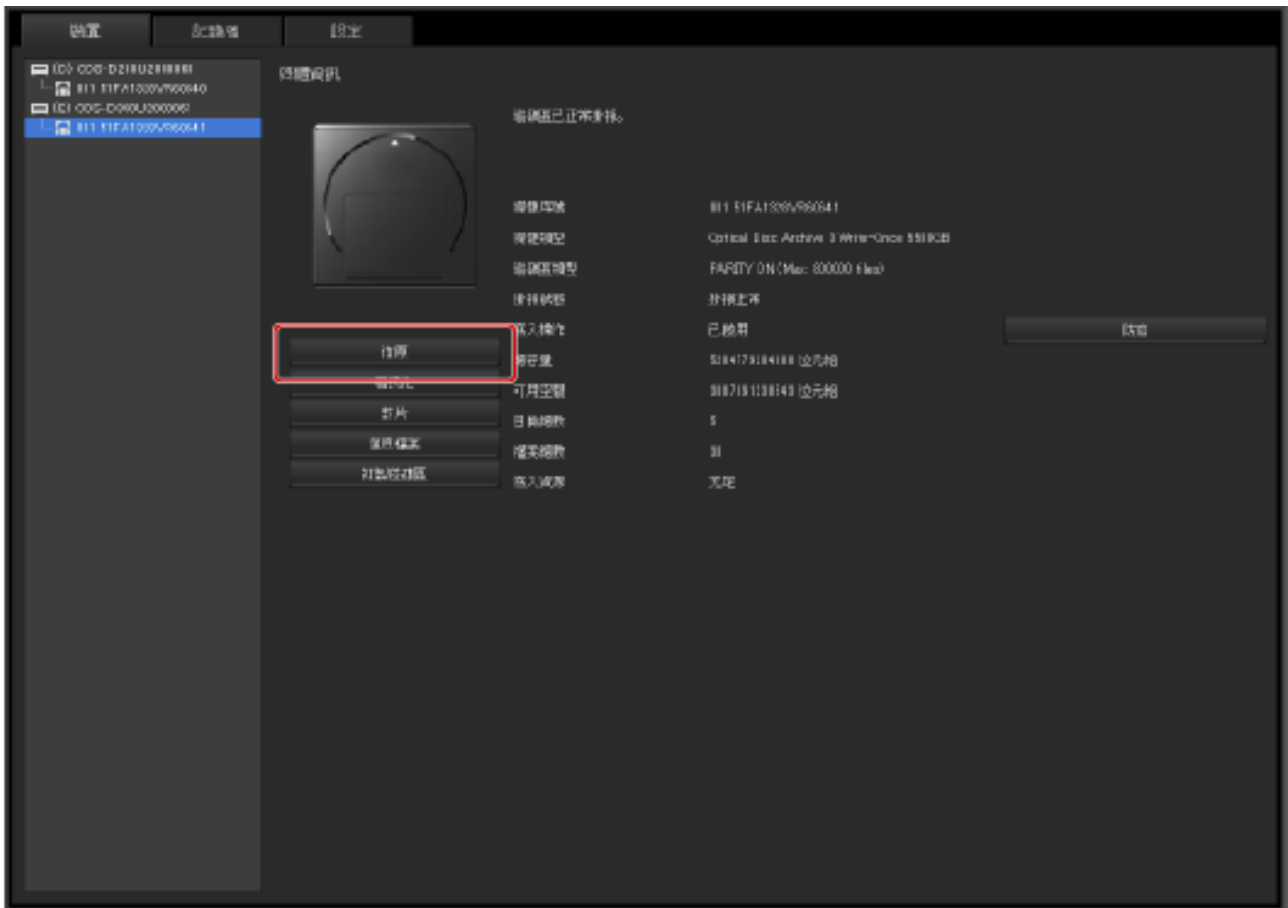
a) 此套件的韌體版本為 1.630 時更新。

相關主題

裝置畫面 – 畫面結構

復原

如果您不小心刪除檔案系統控制資訊或媒體檔案， 可以搜尋復原點以還原檔案。



如何執行復原

1. 按一下 [復原] 按鈕。
[搜尋復原點] 畫面出現， 並開始搜尋復原點。
2. 從清單中選擇復原點， 然後按一下 [掛接] 按鈕。
訊息出現， 然後開始唯讀掛接。
唯讀掛接成功時，“對於復原點的唯讀掛接完成。 您可使用 Optical Disc Archive File， 將整個磁碟區複製到另一個磁碟區， 或複製磁碟區內的檔案或目錄。 或請選擇下列一個項目。” 訊息出現。
3. 選擇 [將可寫入套用到這個復原點。]， 然後按一下 [確定] 按鈕。
訊息出現， 然後對於復原點的可寫入掛接開始。
“可寫入的掛接已套用。 復原成功完成。” 訊息出現， 復原即完成。

如何執行復原（容量復原）

使用可重複寫入媒體時， 透過執行復原處理、 刪除比所選復原點時間更近的復原點， 可以復原媒體容量。

1. 在“如何執行復原”的步驟 3 中， 選擇 [將可寫入套用到這個復原點。] 和 [還原媒體的容量。]， 然後按一下 [確定] 按鈕。

注意

- 您不能復原已刪除的復原點。
- 請確保沒有其他應用程式正在使用卡匣， 然後再執行復原處理。

如何執行復原（檔案復原）

磁碟區內的檔案可以在唯讀掛接下復原。

1. 在“如何執行復原”的步驟 2 中，選擇 [復原磁碟區內的檔案。]，然後按一下 [確定] 按鈕。

如何執行復原（磁碟區複製）

1. 在“如何執行復原”的步驟 3 中，選擇 [將磁碟區複製到另一個媒體。]，然後按一下 [確定] 按鈕。
“您確定要複製磁碟區嗎？請勿在磁碟區複製時變更檔案。” 訊息出現。
2. 按一下 [是] 按鈕。
“請選擇複製目的地。” 訊息出現。
3. 選擇 [選擇另一個磁碟區。]，然後按一下 [確定] 按鈕。
在顯示的畫面中，從另一個磁碟區選擇空白資料夾，或是按一下 [新資料夾] 按鈕建立新資料夾，然後按一下 [確定] 按鈕。
開始複製磁碟區。複製狀態顯示在進度列上。

提示

當選擇 Optical Disc Archive 磁碟區作為複製目的地並選擇 [限制光碟燒錄。] 時，可阻止單個檔案被錄製在多個磁碟上。

相關主題

裝置畫面 – 畫面結構

格式化

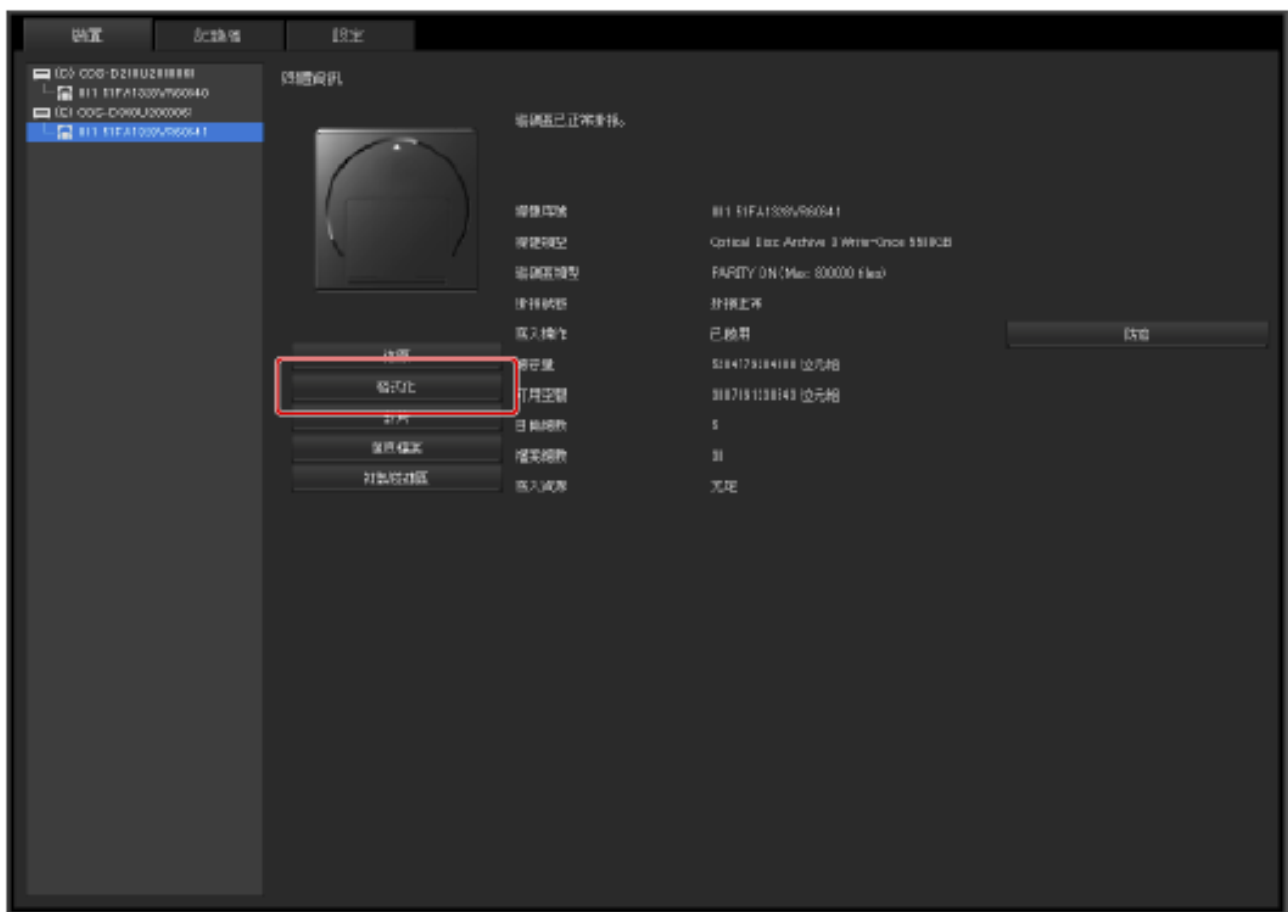
媒體中的所有檔案和目錄將被刪除。

提示

格式化後，您可以透過復原功能恢復格式化處理前的狀態。

注意

- 格式化後，媒體容量不能復原。
- 若選擇 [還原媒體的容量。]，可以復原媒體容量。否則不能使用復原功能。
- 無法格式化時
媒體防寫。請檢查下列項目，然後再次格式化。
 - 可以使用 Optical Disc Archive Drive 寫入卡匣。（關於詳細資料，請參閱 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL。）
 - 卡匣的防寫標籤未設為 [禁止寫入]。（關於詳細資料，請參閱 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL。）
 - 設定畫面中的 [使磁碟機禁止錄製] 核取方塊未勾選。（不勾選核取方塊，然後執行“如何變更操作模式”。）
 - 裝置畫面 / 媒體資訊中的 [防寫] 按鈕未顯示 [防寫解除]。



如何格式化

1. 按一下 [格式化] 按鈕。
“您確定要格式化媒體嗎？如果將它格式化，其中儲存的所有檔案都會刪除。” 訊息出現。
2. 按一下 [是] 按鈕。
格式化完成時，會出現 “格式化完成。” 訊息。
3. 按一下 [關閉] 按鈕。
格式化已完成。

如何格式化（容量復原）

若您使用可重複寫入媒體，可以格式化整個媒體以便釋放錄製空間。此外，插入 Optical Disc Archive 1 卡匣時，您可以將磁碟區類型選擇為 PARITY ON（最多：60000 個檔案）或 PARITY OFF（最多：240000 個檔案）。

1. 從上述步驟 2 選擇 [還原媒體的容量。]，然後按一下 [確定] 按鈕。

相關主題

裝置畫面 – 畫面結構

封片（僅限一次性寫入媒體）

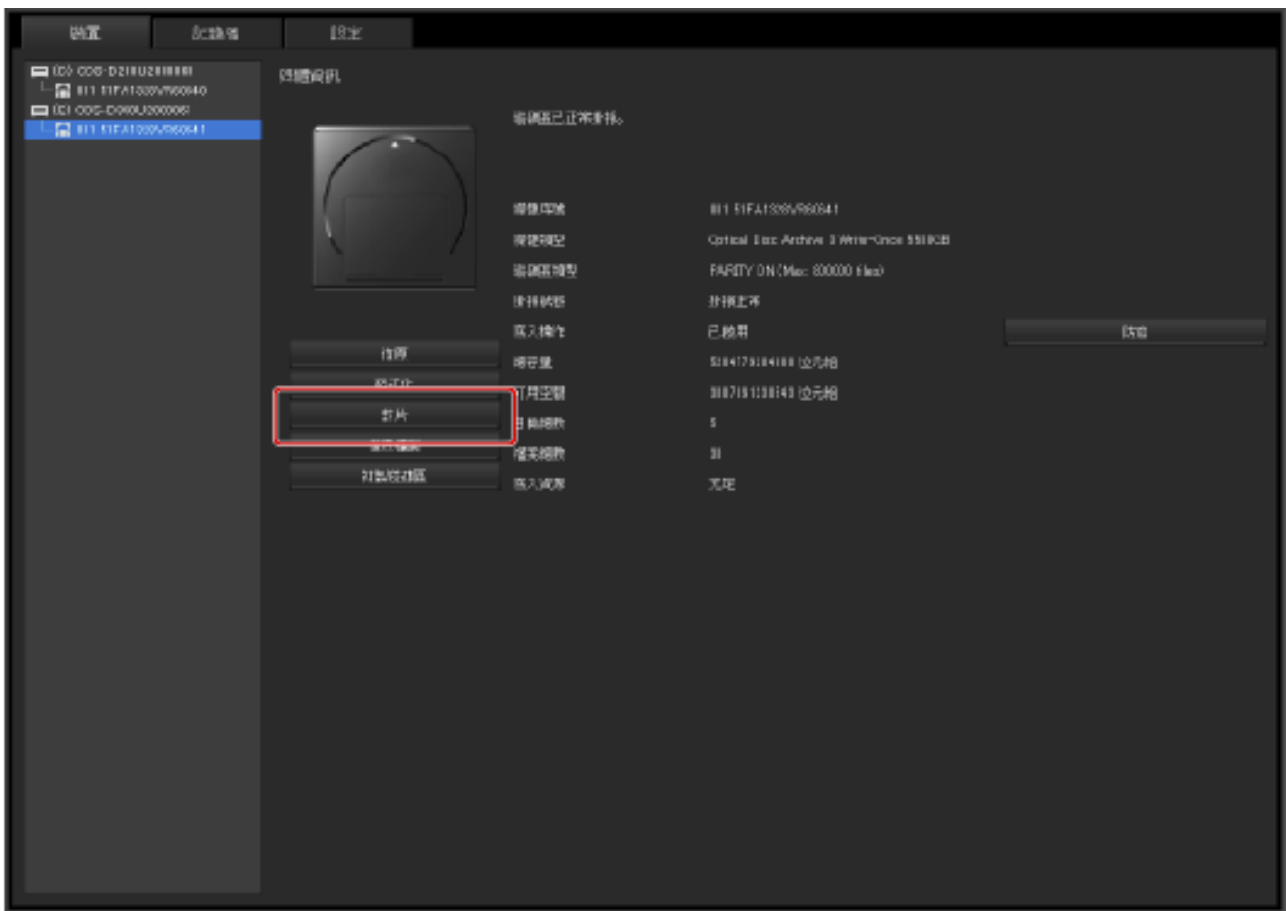
將媒體封片後，媒體會變成唯讀，無法寫入。這樣可提高資料容錯性。

注意

- 無法封片時

媒體防寫。請檢查下列項目，然後再次封片。

- 卡匣與 Optical Disc Archive Drive 相容。（關於詳細資料，請參閱 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL。）
- 卡匣的防寫標籤未設為 [禁止寫入]。（關於詳細資料，請參閱 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL。）
- 設定畫面中的 [使磁碟機禁止錄製] 核取方塊未勾選。（不勾選核取方塊，然後執行“如何變更操作模式”。）
- 裝置畫面 / 媒體資訊中的 [防寫] 按鈕未顯示 [防寫解除]。



如何封片

- 按一下 [封片] 按鈕。

“您確定要將媒體封片嗎？如果將它封片，它就變成唯讀。一旦開始封片，就無法還原。”訊息出現。

- 按一下 [是] 按鈕。

封片完成後，會出現“封片完成。”訊息。

- 按一下 [關閉] 按鈕。

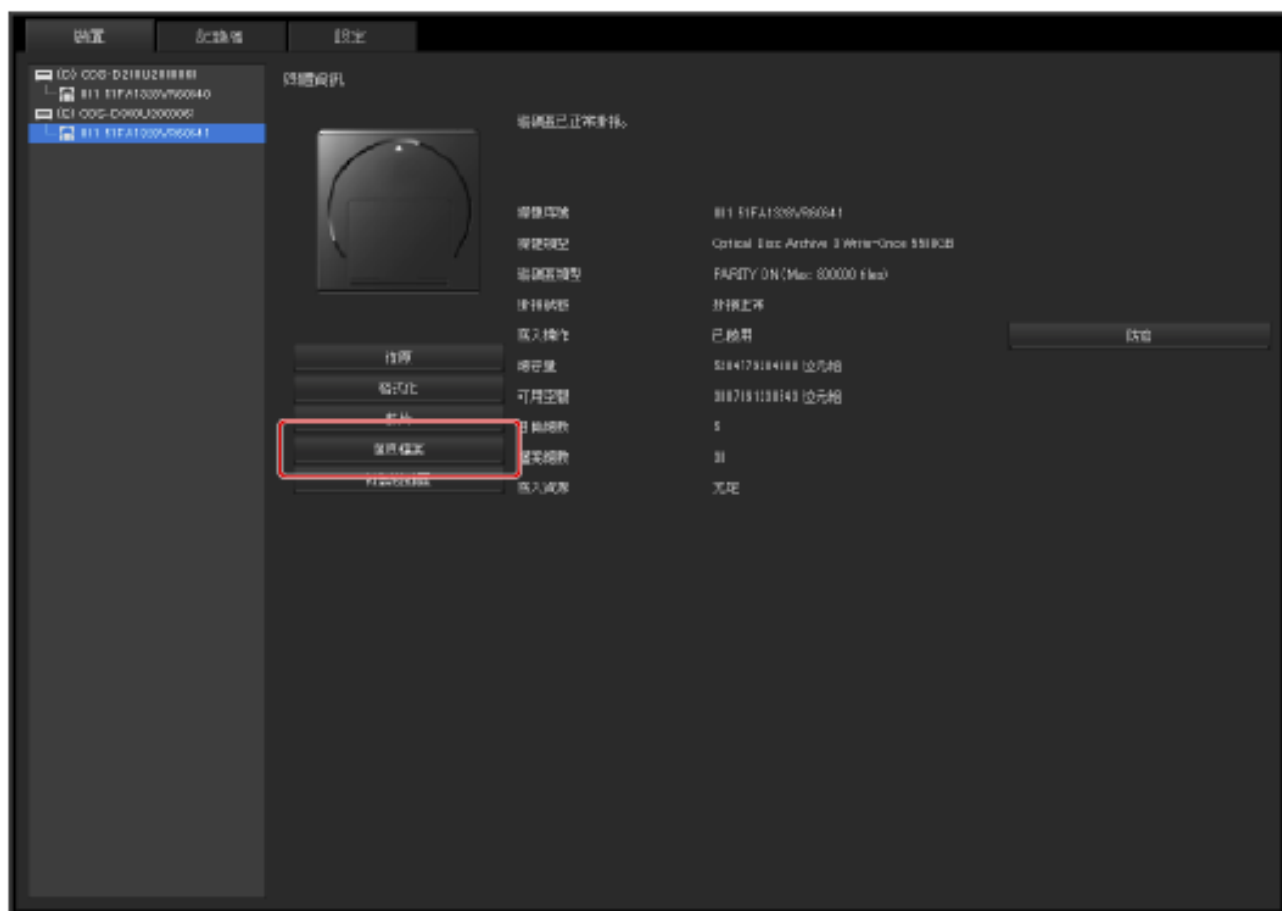
封片已完成。

相關主題

裝置畫面 – 畫面結構

復原檔案

您可以復原與還原損壞的檔案。



如何復原檔案

註冊檔案

1. 按一下 [復原檔案] 按鈕。
顯示清單畫面。
2. 按一下 [新增檔案] 按鈕。
3. 從顯示的畫面中選擇您要復原的檔案，然後按一下 [Open] 按鈕。
您要復原的檔案會新增到清單畫面。

提示

您也可以透過拖放的方式，將要新增的檔案拖放到步驟 3 的畫面。

復原檔案

1. 按一下 [復原檔案] 按鈕。
顯示清單畫面。
2. 選擇您要復原的檔案，然後按一下 [執行復原] 按鈕。
3. 在所顯示畫面上選擇復原後的儲存目的地，然後按一下 [確定] 按鈕。
返回清單畫面，並開始復原檔案。檔案復原完成時，“狀態”會變成“復原完成”。

注意

執行 [復原檔案] 時， 檔案會從卡匣調用並復原， 然後儲存在 HDD 等其他儲存裝置中。

如何執行磁碟區檢查

您可以檢查和復原檔案系統。

執行磁碟區檢查

1. 按一下 [復原檔案] 按鈕。
顯示清單畫面。
2. 按一下 [磁碟區檢查] 按鈕。
出現 “您確定要執行磁碟區檢查嗎 ?”。
3. 按一下 [是] 按鈕。
顯示磁碟區檢查畫面， 並開始磁碟區檢查。
4. 成功完成磁碟區檢查時， 出現 “沒有發現問題。”。

如果發現任何問題， 請按照畫面說明復原磁碟區。

注意

若要復原損壞的檔案， 請參閱 “如何復原檔案”。

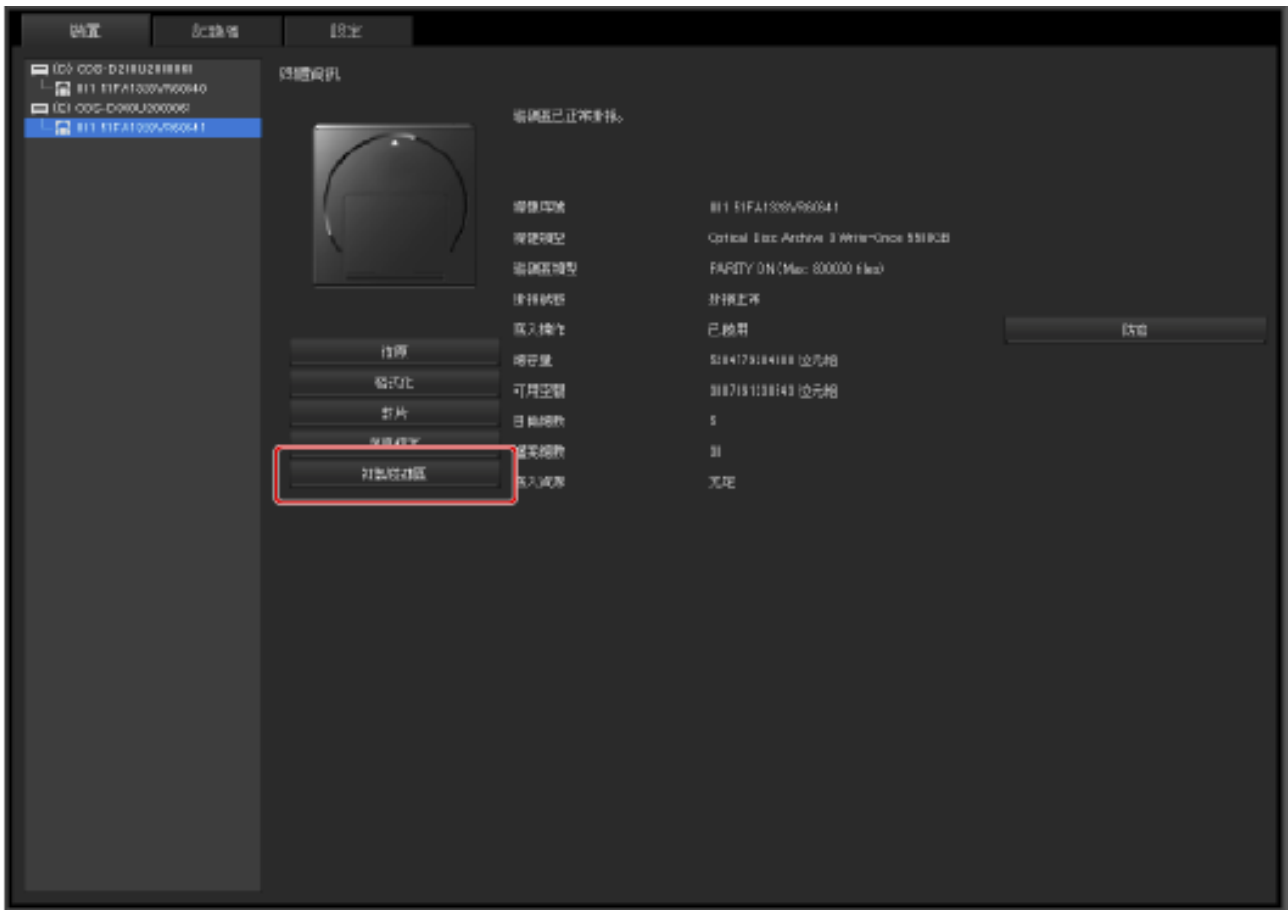
相關主題

裝置畫面 – 畫面結構

磁碟區複製

您能以磁碟區或資料夾為單位將所選媒體資料及時複製到另一個媒體。

您也可以複製到 Optical Disc Archive 卡匣以外的硬碟機（HDD）。



若要從 Optical Disc Archive 磁碟區複製到本機磁碟等其他檔案系統磁碟區

1. 按一下 [複製磁碟區] 按鈕。
“您確定要複製磁碟區嗎？請勿在磁碟區複製時變更檔案。” 訊息出現。
2. 按一下 [是] 按鈕。
選擇 [以磁碟區為單位複製。] 或 [以資料夾為單位複製。]，然後按一下 [確定] 按鈕。若選擇 [以資料夾為單位複製。]，在顯示的畫面中按一下 [參考] 按鈕以選擇您要複製的資料夾。
3. 選擇 [選擇另一個磁碟區。]，然後按一下 [確定] 按鈕。
從顯示的畫面中選擇您要複製的資料夾，或是建立新資料夾，然後按一下 [確定] 按鈕。
4. 選擇 [終止磁碟區複製。] 或 [重新寫入它。]，然後按一下 [確定] 按鈕。
開始複製磁碟區。複製狀態顯示在進度列上。

若要從 Optical Disc Archive 磁碟區複製到另一個 Optical Disc Archive 磁碟區

1. 按一下 [複製磁碟區] 按鈕。
“您確定要複製磁碟區嗎？請勿在磁碟區複製時變更檔案。” 訊息出現。
2. 按一下 [是] 按鈕。
選擇 [以磁碟區為單位複製。] 或 [以資料夾為單位複製。]，然後按一下 [確定] 按鈕。若選擇 [以資料夾為單位複製。]，在顯示的畫面中按一下 [參考] 按鈕以選擇您要複製的資料夾。
3. 選擇 [選擇 Optical Disc Archive Drive 的磁碟區。] 並從下拉式選單中選擇另一個 Optical Disc Archive 磁碟區，然後按一下 [確定] 按鈕。
請注意，應選取空白資料夾或建立新資料夾。

4. 選擇 [終止磁碟區複製。] 或 [重新寫入它。]，然後按一下 [確定] 按鈕。
開始複製磁碟區。複製狀態顯示在進度列上。

提示

當選擇一個複製目的地並選擇 [限制光碟燒錄。] 時，可阻止單個檔案被錄製在多個磁碟上。

若要複製到同一個 Optical Disc Archive 磁碟區

1. 按一下 [複製磁碟區] 按鈕。
“您確定要複製磁碟區嗎？請勿在磁碟區複製時變更檔案。” 訊息出現。
2. 按一下 [是] 按鈕。
從顯示的畫面中選擇 [以磁碟區為單位複製。] 並從下拉式選單中選擇同一個 Optical Disc Archive 磁碟區，然後按一下 [確定] 按鈕。
3. 從另一個磁碟區選擇備份目的地，然後按一下 [確定] 按鈕。
4. 選擇 [終止磁碟區複製。] 或 [重新寫入它。]，然後按一下 [確定] 按鈕。
從複製來源開始複製磁碟區到備份目的地。複製狀態顯示在進度列上。
停止從複製來源複製磁碟區到備份目的地時，卡匣會自動退出，並且出現 [插入另一個卡匣作為複製目的地。] 訊息。
5. 插入卡匣，然後按一下 [確定] 按鈕。
[插入另一個卡匣時] => 步驟 6
[插入同一個卡匣時] => 步驟 7
6. 選擇 [格式化媒體，然後複製到它之中。] 或 [複製到您選擇的資料夾。]，然後按一下 [確定] 按鈕。
從備份目的地開始複製磁碟區到複製目的地。複製狀態顯示在進度列上。
7. [已插入作為複製來源的同一卡匣。建議您將媒體複製到另一個卡匣。] 訊息出現。
按一下 [重新選擇] 或 [確認]。
若選擇 [重新選擇]，卡匣會自動退出，並且出現“插入另一個卡匣作為複製目的地。” 訊息。
若選擇 [確認]，請移至步驟 6。

提示

當選擇一個複製目的地並選擇 [限制光碟燒錄。] 時，可阻止單個檔案被錄製在多個磁碟上。

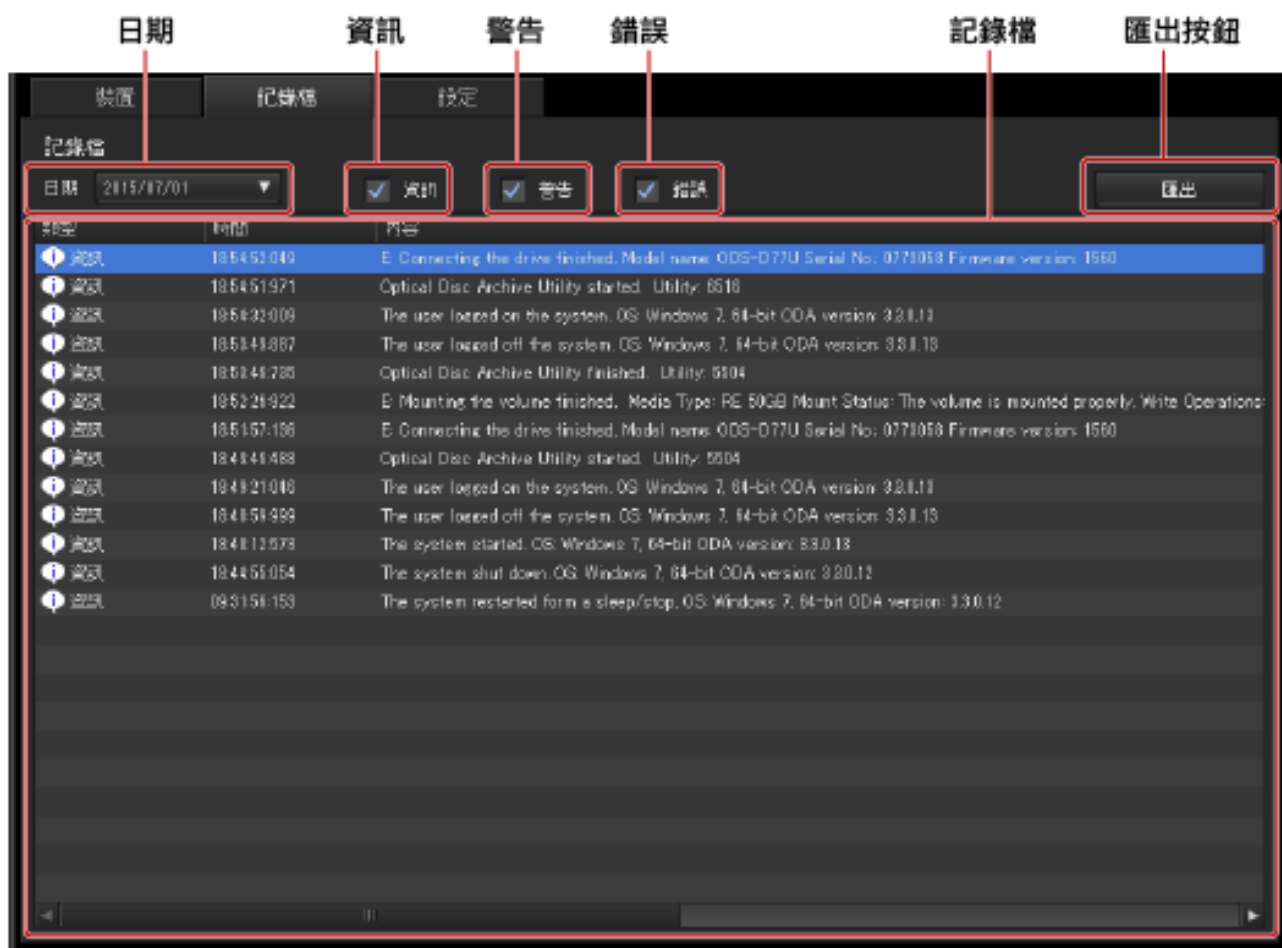
相關主題

裝置畫面 – 畫面結構

記錄畫面

記錄檔畫面 – 畫面結構

驅動程式中出現的記錄檔。



日期

選擇您要顯示的記錄檔日期。

按一下 ▼ 可以列表形式顯示記錄檔日期。

記錄檔

顯示所選日期的記錄檔清單。

您可以依 [資訊]、[警告] 或 [錯誤] 篩選記錄檔類型。

在清單上按兩下或按右鍵可顯示記錄檔的詳細對話。

項目	顯示的資訊
類型	顯示記錄檔類型（資訊 / 警告 / 錯誤）
時間	記錄檔發生的時間。
內容	記錄檔內容

匯出按鈕

將記錄檔匯出到任何想要的位置。

注意

您不能選擇 Optical Disc Archive Drive 的容量。

如何匯出記錄檔

1. 按一下 [匯出] 按鈕。
顯示 [另存新檔] 畫面。

2. 指定要儲存的檔案名稱和目的地， 然後按一下 [儲存] 按鈕。
“匯出完成。” 訊息出現。
3. 按一下 [關閉] 按鈕。
記錄檔將匯出到指定位置。

重新整理畫面

從檢視功能表中選擇 [更新]。

注意

- 舊版 Optical Disc Drive 韌體可能沒有磁碟機記錄檔。
- 已插入卡匣的磁碟機沒有磁碟機記錄檔。

設定畫面

設定畫面 – 畫面結構

設定 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 與 Optical Disc Archive Software 的操作模式。

注意

若要使設定變更生效， 必須重新插入卡匣。



操作模式

操作模式	資訊
寫入驗證	<p>在 Optical Disc Archive1 媒體中寫入驗證</p> <p>在磁碟區上寫入檔案，同時驗證寫入是否成功。 始終在 Optical Disc Archive 2/3 媒體中寫入驗證。</p> <p>注意</p> <p>傳輸速度將改變。關於詳細資料，請參閱 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U OPERATION MANUAL。</p>
使磁碟機禁止錄製	防止寫入磁碟機。
在完成寫入檔案之後，立即將管理資料同步到媒體	<p>儲存完成的檔案，即使錄製中途發生錯誤。</p> <p>注意</p> <p>“檔案系統”操作模式：開啟 - 預設設定。即使磁碟機電源中斷或錄製檔案失敗，先前完成的檔案也會安全儲存。下次掛接磁碟區時，只會刪除錄製期間由於上述中斷情形而受損的檔案，而其他已完成的檔案會自動復原。這是因為每次錄製新檔案時都會更新並寫入系統資訊。若安全性為您的第一優先考量，建議設為 [開啟]。</p> <p>“檔案系統”操作模式：關閉。[關閉] 模式提高錄製一系列小檔案時的性能。此外還可提高卡匣的使用效率。另一方面，在連續錄製期間，許多檔案可能會由於電源中斷等狀況而被刪除。這是因為錄製連續檔案後會立即更新並寫入系統資訊。萬一發生錄製故障，將進行復原並恢復為您開始錄製一系列檔案前的原先狀態。下次掛接磁碟區時，上次寫入卡匣的完整檔案系統更新有效。無完整檔案系統記錄的先前所有小檔案將被刪除，且無法復原。因此，建議在不穩定的電源供應環境下設為 [開啟]。</p>
預設磁碟區類型	<p>Optical Disc Archive 1 :</p> <p>插入未格式化的媒體時，會自動格式化為此磁碟區類型。</p> <p>在 Optical Disc Archive 2/3 媒體中寫入時始終新增奇偶校驗。檔案數量最多分別為 480000/800000。</p> <p>注意</p> <p>執行加入同位檢查寫入作業時，由於執行“復原檔案”會使用同位檢查資訊修正錯誤，因此損壞的檔案將復原 / 還原。</p>

[還原原廠預設] 按鈕

將操作模式還原為原廠預設設定。

[套用] 按鈕

決定操作模式。

如何變更操作模式

1. 選取操作模式的核取方塊。 從下拉式選單中選擇 [預設磁碟區類型]。
2. 按一下 [套用] 按鈕。
“操作模式設定已變更。 重新插入卡匣以啟動新設定的模式。” 訊息出現。
3. 按一下 [關閉] 按鈕。
4. 重新插入卡匣。
操作模式已變更。

如何將操作模式恢復為原廠預設設定

1. 按一下 [還原原廠預設] 按鈕。
“您是否要還原操作模式設定的原廠預設？” 訊息出現。
2. 按一下 [是] 按鈕。
“操作模式設定已變更。 重新插入卡匣以啟動新設定的模式。” 訊息出現。
3. 按一下 [關閉] 按鈕。
4. 重新插入卡匣。
操作模式將恢復為原廠預設設定。

附錄

警報代碼清單

在裝置畫面的磁碟機資訊中，顯示的警報內容會根據 ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 的各別狀態而列出。

錯誤消除後，指示燈熄滅。

- 插入卡匣時的警報
- 操作期間的警報
- 關於感應器和磁碟機的警報

插入卡匣時的警報

LED ^{a)}	警報代碼	說明	可能的解決方案
每秒閃爍四次	50-010	光碟的管理區域是無法讀取的。	無法使用的媒體；請插入另一個卡匣。
	50-011		
	51-020		
	51-021		
	54-008		
	51-500	不支援的光碟。 需要最新韌體以使用媒體。	取得最新的 Optical Disc Archive Software，安裝後更新韌體。

LED ^{a)}	警報代碼	說明	可能的解決方案
每秒閃爍	21-001	此卡匣接近使用壽命的終點。	建議您將資料複製到另一個卡匣。
	6D-000		
	21-100	不可用媒體；	請洽詢您的 Sony 維修人員。
	21-101	媒體可能發生問題。	建議您將資料複製到另一個卡匣。如需詳細資訊，請查閱最新的發行注意事項。
	21-102	卡匣掛裝後為唯讀。	建議您將資料複製到另一個卡匣。如需詳細資訊，請查閱最新的發行注意事項。
	54-009	卡匣和光碟不相符。	無法使用的媒體；請插入另一個卡匣。
	54-000	不支援的光碟格式。	無法使用的媒體；請插入另一個卡匣。
	54-001		
	54-002		
	54-003		
	54-006	不支援的卡匣記憶體格式。	無法使用的媒體；請插入另一個卡匣。
	54-004	無法存取卡匣記憶體。	重新插入卡匣。
	54-005		
	54-007		
	95-517		
	95-518		

a) ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 的警報指示燈。

相關主題

操作期間的警報

關於感應器和磁碟機的警報

操作期間的警報

LED ^{a)}	警報代碼	說明	可能的解決方案
每秒閃爍	6D-001	不可用媒體；	請洽詢您的 Sony 維修人員。
	6D-002	媒體可能發生問題。	建議您將資料複製到另一個卡匣。如需詳細資訊，請查閱最新的發行注意事項。
	54-200 54-201 53-502	在光碟的管理區域中偵測到錯誤。	重新插入卡匣。
	54-004 54-005 54-007 95-517 95-518	無法存取卡匣記憶體。	重新插入卡匣。
	54-006	不支援的卡匣記憶體格式。	無法使用的媒體；請插入另一個卡匣。
	54-300	錄製光碟的物理格式正在還原中。	錯誤發生時，請勿關閉電源。卡匣正在修復。由於此過程可能需要幾分鐘，請在電源開啟的狀況下等待此過程完成。
	22-001	經常對卡匣同時進行多個存取動作。	請勿進行下列操作；否則效能可能下降。 <ul style="list-style-type: none"> 同時讀取多個檔案 在寫入（讀取）檔案時讀取（寫入）它 在同一磁碟區中產生檔案的複本 關於詳細資料，請參見“不適當的操作”。
	91-552 91-553 91-554	掛接失敗。 讀取時發生錯誤。 寫入時發生錯誤。	退出卡匣，並重新插入同一個卡匣。
不亮	91-556	記錄在媒體上的部分同位元檢核資料可能已毀損。	建議您將資料複製到另一個卡匣。如需詳細資訊，請查閱最新的發行注意事項。
	91-558	未正確設定光纖通道主機匯流排轉接器的最大資料傳輸大小。	關於詳細資料，請參閱 ODS-D380F Technical Note。
	91-559	無法存取儲存檔案系統快取的路徑。	請洽詢您的 Sony 維修人員。

a) ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 的警報指示燈。

相關主題

插入卡匣時的警報

關於感應器和磁碟機的警報

關於感應器和磁碟機的警報

LED ^{a)}	警報代碼	說明	可能的解決方案
每秒閃爍四次	95-50D	磁碟機內部溫度異常。	立即關閉磁碟機電源，並拔出電源線。 如果您繼續使用磁碟機，內部溫度可能變得更高，造成損壞或火災。
	95-51D		
	37-901		
	37-A01		
	37-B01		
	37-C01		
	47-901		
	47-A01		
	47-B01		
	47-C01		
每秒閃爍	95-50E	磁碟機內部溫度上升。	請務必不要阻塞磁碟機正面和背面上的通風孔，並要釋放熱量。
	95-51E		
	37-900		
	37-A00		
	37-B00		
	37-C00		
	95-50F	磁碟機內部溫度上升。	請務必不要阻塞磁碟機正面和背面上的通風孔，並要釋放熱量。 如果問題仍然存在，請洽詢您的 Sony 維修人員。
	95-51F		
	95-52F		
	3E-500	磁碟機沒有水平放置。	請水平放置磁碟機。
	95-52A	偵測到磁碟機裝置的序號不相符。	執行磁碟機調整。

LED ^{a)}	警報代碼	說明	可能的解決方案
每秒閃爍四次	3E-501	磁碟機沒有水平放置。	水平放置磁碟機之後，關閉磁碟機電源然後再開啟電源。
	20-xxx	在磁碟機的機械控制部份偵測到異常。	卡匣未退出時，請按 EJECT 按鈕以退出卡匣。 如果無法退出卡匣，請關閉磁碟機電源然後再開啟電源。
	20-117	在磁碟機的機械控制部份偵測到異常。	可能插入了無法操作的卡匣。
	52-00B	無法存取光碟。	重新插入卡匣。
	52-08B		
	52-10B		
	52-18B		
	72-00B		
	72-08B		
	72-10B		
	72-18B		
每秒閃爍	6F-E00	無法寫入光碟。	重新插入卡匣。
	6F-E80		
	6F-F00		
	6F-F80		
	8F-E00		
	8F-E80		
	8F-F00		
	8F-F80		
每秒閃爍四次	6F-E03	無法存取光碟。	重新插入卡匣。
	6F-E83		
	6F-F03		
	6F-F83		
	8F-E03		
	8F-E83		
	8F-F03		
	8F-F83		
每秒閃爍	3F-511	須更換空氣過濾器。	請更換空氣過濾器。 ^{b)}
	02-605	因為灰塵和其他因素，進入光學組件的光線量已減少。	請洽詢您的 Sony 維修人員。
	02-685		
	02-705		
	02-785		
	12-605		
	12-685		
	12-705		
	12-785		

- a) ODS-D55U/ODS-D77U/ODS-D280U/ODS-D380U 的警報指示燈。
- b) 關於詳細資料，請參閱 OPERATION MANUAL。

相關主題

插入卡匣時的警報

操作期間的警報

關於檔案系統

概述

本節說明檔案系統的概述。

- 掛接操作
- 限制
- 不適當的操作

掛接操作

[磁碟區] 表示已格式化的媒體檔案系統。

[掛接] 表示可存取磁碟區的狀態。

對於空白媒體

媒體插入磁碟機時， 將自動格式化， 然後會做為不含檔案和目錄的空白磁碟區掛接。

Optical Disc Archive 1 媒體

您可以預先根據 Utility 設定畫面 / 規則的磁碟區類型， 選擇以下磁碟區類型之一。

- PARITY ON （最多 60000 個檔案）
此格式可建立最多 60000 個檔案 （包括目錄）。
錄製檔案時， 會自動建立多餘的同位檢查資料。 需要還原檔案時， 使用此同位檢查資料。
- PARITY OFF （最多 240000 個檔案）
此格式可建立最多 240000 個檔案 （包括目錄）。
錄製檔案時， 不會建立同位檢查資料。

Optical Disc Archive 2 媒體

- PARITY ON （最多 480000 個檔案）
此格式可建立最多 480000 個檔案 （包括目錄）。
錄製檔案時， 會自動建立多餘的同位檢查資料。
需要還原檔案時， 使用此同位檢查資料。

Optical Disc Archive 3 媒體

- PARITY ON （最多 800000 個檔案）
此格式可建立最多 800000 個檔案 （包括目錄）。
錄製檔案時， 會自動建立多餘的同位檢查資料。
需要還原檔案時， 使用此同位檢查資料。

對於可重複寫入媒體

使用 Utility 的格式化功能時， 選擇 [還原媒體的容量。] 可將已格式化成上述磁碟區類型之一的媒體磁碟區類型變更為其他磁碟區類型。

（請參閱如何格式化 （容量復原）。）

對於一次性寫入媒體

您不能變更已格式化成上述磁碟區類型之一的媒體磁碟區類型。

對於已格式化的媒體

您可以存取在磁碟區上建立的檔案和目錄。

若磁碟區可錄製，您可以建立新的檔案和目錄。

對於已建立的檔案和目錄，您也可以執行讀取、檢視、刪除、變更名稱、移動、變更屬性，以及變更磁碟區標籤。

若磁碟區的錄製操作已停用或受到限制，您可以對檔案和目錄執行讀取和檢視，但不能執行建立、變更名稱、移動、變更屬性，以及變更磁碟區標籤。

您可以透過 Utility 的裝置畫面 / 媒體資訊 / 錄製操作檢查磁碟區是否可錄製。

媒體因異常而無法掛接時

您不能存取在磁碟區上建立的檔案或目錄。

透過 Utility 的裝置畫面 / 媒體資訊 / 掛接狀態檢查磁碟區的掛接狀態。

相關主題

裝置畫面 - 格式化

限制

檔案 + 目錄的最大數量

您可以根據磁碟區類型建立以下檔案 + 目錄。

Optical Disc Archive 1 媒體

- PARITY ON（最多 60000 個檔案）：最多 60000
- PARITY OFF（最多 240000 個檔案）：最多 240000

Optical Disc Archive 2 媒體

- PARITY ON（最多 480000 個檔案）：最多 480000

Optical Disc Archive 3 媒體

- PARITY ON（最多 800000 個檔案）：最多 800000

根目錄視為一個。即使磁碟區空白，仍然有一個目錄（根目錄）。

檔案和目錄階層

您可以為檔案和目錄建立最多 64 個階層。

根目錄視為一個階層。

在根目錄建立的檔案視為第二階層。

檔案名稱

在 Unicode 2.0 中，檔案和目錄名稱的可用字元為 1 至 127 個字元。

代理組字元視為兩個字元。

您不能將以下字元用於名稱。

代碼	字元
U+0000	(空值)
U+0000 – U+001F	a)
U+0022	" (雙引號) a)
U+002A	* (星號) a)
U+002F	/ (斜線)
U+003A	: (冒號) a)
U+003C	< (小於) a)
U+003E	> (大於) a)
U+003F	? (問號) a)
U+005C	\ (反斜線或日元符號) a)
U+007C	(垂直線) a)
U+007F	(DEL) a)

a) Macintosh/Linux 記錄的字元以 UDF 的變更規則改變。

名稱不能只由 “.” (點) 或 “..” (連續點) 構成。

名稱結尾不能使用 “ ” (空格) 或 “.” (點)。

在同一個目錄中不能使用重複的檔案名稱 (IGNORE CASE)。

根目錄下的名稱不能只由 “\$” (美元符號) 或 “\$\$” (連續美元符號) 構成。

磁碟區標籤

在 Unicode 2.0 中，磁碟區標籤的可用字元為 1 至 63 個字元。

代理組字元視為兩個字元。

您不能將以下字元用於名稱。

代碼	字元
U+0000 – U+001F	
U+0022	" (雙引號)
U+002A	* (星號)
U+002F	/ (斜線)
U+003A	: (冒號)
U+003C	< (小於)
U+003E	> (大於)
U+003F	? (問號)
U+005C	\ (反斜線或日元符號)
U+007C	(垂直線)
U+007F	(DEL)

不能使用以 “.” (點) 開頭的字元字串。

檔案錄製

您只能在錄製模式中開啟一個檔案。只能進行連續錄製。

您通常不能在錄製模式中開啟已錄製的檔案。

以下錄製檔案可以在錄製模式中開啟，此外還可透過連續錄製進行錄製。

- 上次錄製的檔案
- 大小為零 (0) 的檔案。

此外，當使用標準複製指令時，可能無法紀錄零散檔案。如需詳細資訊，請查閱最新的發行注意事項。

不適當的操作

如果在檔案移動過程中發生故障，來源和目的地的檔案可能會遺失。如果發生故障，請勿移動檔案。

對卡匣執行以下任何一個不適當的操作（[1] 至 [4]）時，卡匣存取速度會變慢。如果這種狀況持續一段時間，將暫時禁止存取卡匣。

重新插入卡匣時，將修正此錯誤。

請執行可能的解決方案中的操作，不要執行不適當的操作。

不適當的操作	可能的解決方案
<p>[1]</p> <p>同時讀取檔案</p> <p>範例：</p> <p>在 Windows Explorer 中，將 ODA 媒體中已錄製的檔案透過拖放的方式複製到本機資料夾，同時將 ODA 媒體中的另一個檔案拖放到本機資料夾。</p> <p>上述同步操作應該不會造成錯誤。但是，如果兩個檔案位於不同的光碟，傳輸速率會變得非常慢，因為每當複製 64 KB 至 1 MB 的資料，就會切換光碟，媒體的耐用性也會降低。</p>	<p>當第一個檔案複製到本機資料夾（電腦硬碟或其他媒體）的操作完成後，再開始複製下一個檔案。</p>
<p>[2]</p> <p>一邊錄製檔案一邊進行讀取，或是一邊讀取檔案一邊進行錄製</p> <p>範例：</p> <p>在 Windows Explorer 中，將本機資料夾中的檔案透過拖放的方式複製到 ODA 媒體，同時將 ODA 媒體中的另一個檔案透過拖放的方式複製到本機資料夾。</p> <p>這兩個操作將繼續，但是，如果檔案位於不同的光碟，傳輸速率會變得非常慢，因為每當複製 64 KB 至 32 MB 的資料，就會切換光碟，媒體的耐用性也會降低。</p>	<p>當檔案複製到 ODA 媒體的操作完成後，再將媒體中的檔案複製到本機資料夾（電腦硬碟或其他媒體）。</p>

不適當的操作	可能的解決方案
<p>[3]</p> <p>在同一磁碟區中產生檔案的複本</p> <p>範例：</p> <p>在 Windows Explorer 中，在 ODA 媒體中已錄製的檔案上按右鍵並拖曳到資料夾，然後選擇 [複製到這裡]。</p> <p>此複製操作不會造成錯誤，但是，如果檔案位於不同的光碟，傳輸速率會變得非常慢，因為每當複製 64 KB 至 32 MB 的資料，就會切換光碟，媒體的耐用性也會降低。</p>	<p>當檔案複製到電腦硬碟（或其他媒體）的操作完成後，再將該檔案從硬碟再次複製到 ODA 媒體。</p>
<p>[4]</p> <p>讀取位於多張光碟上的一個檔案</p> <p>範例：</p> <p>透過 XDCAM Viewer 播放剪輯檔案時，如果檔案錄製於 ODA 媒體中的多張光碟上，而您反覆將位置列上的滑桿從一端移動到另一端。</p> <p>傳輸速率會變得非常慢，因為會經常切換光碟，媒體的耐用性也會降低。</p>	<p>將檔案複製到電腦硬碟（或其他媒體）後，再從該媒體播放（或編修等）已複製的檔案。</p> <p>當錄製到 ODA 媒體時，如果使用 Content Manager（ODA 的建議軟體），可以防止在多張光碟上錄製。（如果錄製檔案大小大於光碟的可用空間，則不一定能防止在多張光碟上錄製。）</p>

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- EEMBC 和 CoreMark-Pro 是 Embedded Microprocessor Benchmark Consortium 的註冊商標。

關於開源軟體

Optical Disc Archive Software 使用下列開源軟體。

LIST OF OPEN SOURCE SOFTWARE AND APPLICABLE LICENSE

1. Apache License 2.0

- Xerces
- log4cxx

2. Boost Software License Version 1.0

- Boost

3. The MIT License (MIT)

- ZipArchive: <http://code.google.com/p/ziparchive/>

4. The GNU Lesser General Public License, version 3.29 (LGPL-3.29)

- Qt 6.2

The source code for Qt 6.2 is available on the Web.

To download, please access the following URL:

<http://www.sony.net/Products/Linux>

(Please search "Optical Disc Archive Software" to obtain the source code.)

Please note that Sony cannot answer or respond to any inquiries regarding the content of this source code.

5. Other Licenses Used in Qt

LICENSES

1. Apache License Version 2.0

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Module: Efficient Binary-Decimal and Decimal-Binary Conversion Routines for IEEE Doubles, version 3.1.5-30-gbf46072

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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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Email local part: Philip.Hazel
Email domain: gmail.com

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Module: Secure Hash Algorithm SHA-1

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Module: Secure Hash Algorithm SHA-3 - Keccak, version 3.2

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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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Module: Smooth Scaling Algorithm

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