

Axioscan 7 | Slide Scanner Quick Start

Carl You Research Microscopy Solutions



使用須知

- 掃片機因為掃描範圍廣大,通常檔案容量為數十到數百GB,不建議將原始檔案(.czi)輸出成tif, jpg等格式。且轉檔耗時, Power point, Word, PDF等報告格式也無法呈現圖片所有細節。可善用截圖或Crop功能, 擷取縮圖概覽以及重點區域圖像,同時保存.czi原始檔案即可。免費版ZEN lite可隨時讓您檢視珍貴的實驗圖檔。
- 只接受標準1mm厚度載玻片,務必再蓋上0.17mm蓋玻片,封片完整,保持玻片清潔,移除多餘殘膠。
- 儘量使用同一個scan profile(掃片設定)掃描雷同的樣品,可減少設定拍攝的複雜度。
- Axioscan 7自動化顯微鏡的拍攝精確度無法媲美手動顯微鏡一張一張的調整拍攝,使用時應以"自動化"、"多玻 片"、"節省時間"為使用前提,盡量減少設定機器的時間,把時間留在更多美好的事物上~。



Startup

ZEISS





- "1" 延長線開關 (位於右下桌腳)
- " 2" Axioscan 7
- "3" 電腦電源





Startup Prepare Your Slides





- 1. 解開板手
- 2. 放好玻片夾" Frame"

- 3. 上推板手
- 4. 放好玻片, 蓋玻片朝上, 玻片標籤在下方 5. 解開板手, 取出玻片夾" Frame"

Startup Support Slides





適用玻片規格:

標準玻片 寬: 24.0 ~ 26.3 mm 長: ⁻73.5~ 76.5 mm 厚: 0.8 ~ 1.3 mm

務必使用蓋玻片

最大長*寛: 50 * 22 mm 厚: 0.16 ~ 0.19 mm (No.1.5) *推薦使用0.17 +/- 0.005 mm

寬玻片

寬: 50.0 ~ 52.0 mm 長: ⁻73.5~ 76.5 mm 厚: 0.8 ~ 1.3 mm

務必使用蓋玻片

最大長*寬: 50 * 48 mm 厚: 0.16 ~ 0.19 mm (No.1.5) *推薦使用0.17 +/- 0.005 mm



Brightfield Scanning

Brightfield Scanning Insert Slides & Select Profile





按"Open"打開艙門,放入 已經夾好玻片的Tray

設定存檔位置

勾選要掃描的玻片

依需要的倍率選擇scan profile (掃片設定檔) ZEISS_BF_Tissue_10x或 ZEISS_BF_Tissue_20x

按" Start Preview Scan"
 建立玻片預覽圖以及掃片區
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Brightfield Scanning Tissue Detection



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如果不滿意電腦自動偵測的掃片 區域,或想手動變更掃描區域

■ 點選" 齒輪"

"Check and correct sample detection results"

Brightfield Scanning Tissue Detection





Brightfield Scanning Save Your Scan Profile



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■ 若想保存此次的Scan profile 設定, 點選"儲存"即可

Brightfield Scanning Start Scanning







Fluorescence Scanning

Fluorescence Scanning

Before Scanning



使用須知

- 多數螢光玻片為透明樣本,掃片機不易辨識掃圖區域,可事先用麥克筆在玻片上圈出掃圖區域,可更快幫助掃片機 辨識樣品。
- 只接受標準1mm厚度載玻片,務必再蓋上0.17mm蓋玻片,封片完整,保持玻片清潔,移除多餘殘膠。
- 螢光掃描比穿透光花費更多時間,可先設定一小塊掃描區域測試掃描效果。
- Axioscan 7 自動化顯微鏡的拍攝精確度無法媲美手動顯微鏡一張一張調整拍攝,使用時應以"自動化"、"多玻 片"、"節省時間"為使用前提,盡量減少設定機器的時間,把時間留在更美好的事物上~

Fluorescence Scanning Insert Slides & Select Profile





Fluorescence Scanning Scan Area



pols Window Help	
kis Applications	通常螢光樣品需要手動圈選掃瞄
Select Scan Profile used for all slides with status new ZEISS_BF_Tissue_10x	
Mark All Unmark All Default Order Skip Slide	
	"Adapt selected profile
Tray Position: 1 Type: Scan1x3 Scan Slide Desition Slide Overview Scan Profile Scan Status	for scan of this slide"
Unload Tray Unload Tray 1 CEISS_FL_BGR_20x Centre Centre Centre Centre Centre	
3 ZEISS_FL_BGR_20x V2 Check and correct sample detection results Show profile content as xml (view only)	
♥ Tray Position: 2 Type: Scan1x3	
Open Scan Slide Position Slide Overview Scan Profile Scan Status	
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Fluorescence Scanning Scan Area





Fluorescence Scanning Scan Channels





Fluorescence Scanning Focus Tricks





Fluorescence Scanning

Scan Channels



ZEINN

Fluorescence Scanning

ZEISS

Save Your Own Profile





Scan Status

Scan Status



with status new	ZEISS_BF_Tissue_10x	* Smart Profil Selection	
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		Coarse Focus Map 0 of 4: 0 % 4 %	

Axioscan 7 會將玻片分為幾種狀 態:

- New 剛放入尚未預覽
- Preview Done 已完成預覽, 可看到小圖
- Scanning 正在掃描
- Finished 完成掃描

Scan Status



-					_
	Scan Status				Inage Name
•* (00m 14s	Preview Done	01m 37s	Reset to: 🔻	2023_01_040
で *•	01m 28s	finished		Reset to: New	2023_01_040
				Previewed	
	Scan Status				Image Name
• * •	01m 33s	Scanning	24m 55s	Skip Slide	2023 01 04 0
	Fine Focus Map	0 of 4: 0 %	5 %		

- **只有**" Preview Done"的玻片可 進行掃描
- "finished" 狀態的玻片無法進行 掃描,可按" Reset to",
 "Previewed",即可重新掃圖

Unload Tray







Create Image & ROI

裁切局部圖片

Create Image





Create Image





Create Image Rotatable ROI







Shutdown

ZEISS

Shutdown

Sequence



- "3" 關閉電腦
- " 2" 關閉Axioscan 7
- "1" 關閉延長線開關 (位於右下方桌腳)





Seeing beyond