



## 背景說明

頻率元件為電子產品的關鍵零組件之一。台灣業者在頻率元件的全球佔有率為世界第二，約為25%，僅次於日本的

50%，高於第三中國的12.5%。在世界前10大業者中，我國佔有四席。

面對未來市場競爭，各個競爭對手以大量投入智慧產線與智慧製造應用，提升生產效率與品質。

## 挑戰

現場的設備資訊取得方式偏向以人工抄寫，不僅人力成本較高，並會有人員管理問題，而人工抄寫亦容易失真，造成後續生產管理、生產履歷與數據分析等應用難以實現。

## 解決方案

### - 設備擷取資料解決方案：VIC7100

VIC7000系列產品是一款智慧型視覺採集器，提供高安全性、非侵入式的PC-based 設備擷取資料( Non Protocol)解決方案。可在不影響設備運行的情況下，能即時利用影像訊號擷取資料，具有主動換頁機制，僅需在設備插上USB設備端不需要安裝軟體與驅動程式，不會改變原有系統。不須擔

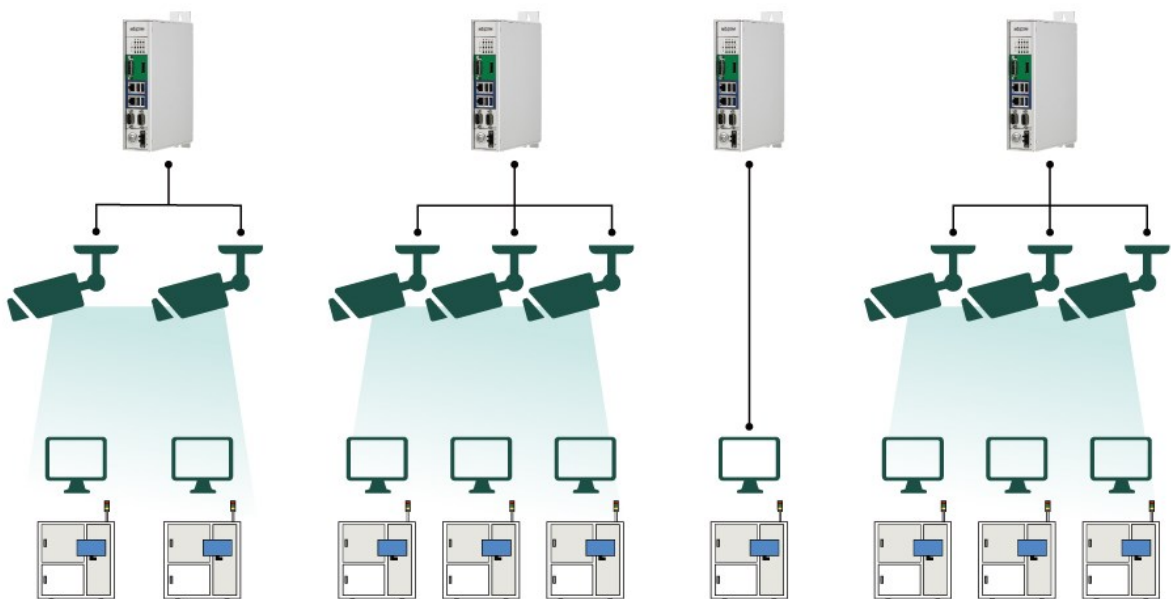
心設備端操作人員誤觸去其他畫面，程式會主動翻到對的頁面；當設備換線時，也能利用現場端開關或利用網頁控制停止換頁，以最有效率的方式將擷取的資料儲存到資料庫中。

此案例採用四台VIC7100，一台直接於擷取澆渡機上的螢幕畫面資料，其它則是於利用網路攝影機監控2~3台澆渡機上螢幕，再由VIC7100擷取影像資料。

## 成果及效益

1. 利用視覺辨識取代人工抄寫，不但省掉了聘雇2~3位勞工的成本，也減少人工出錯的誤報率。
2. Vision Gateway設備擷取資料解決方案可協助管理者進行機台狀態即時監控、資產巡檢，亦可追蹤製程履歷及掌握製程參數以進行數據分析以提高製造效率和優化成本。

## 解決方案系統架構





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