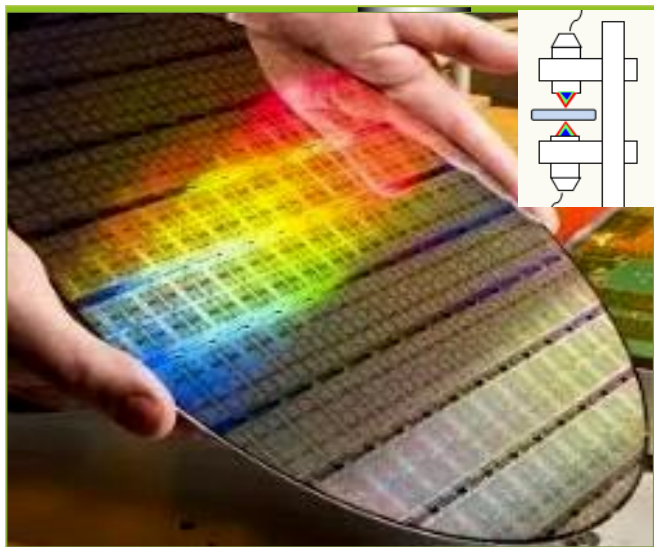
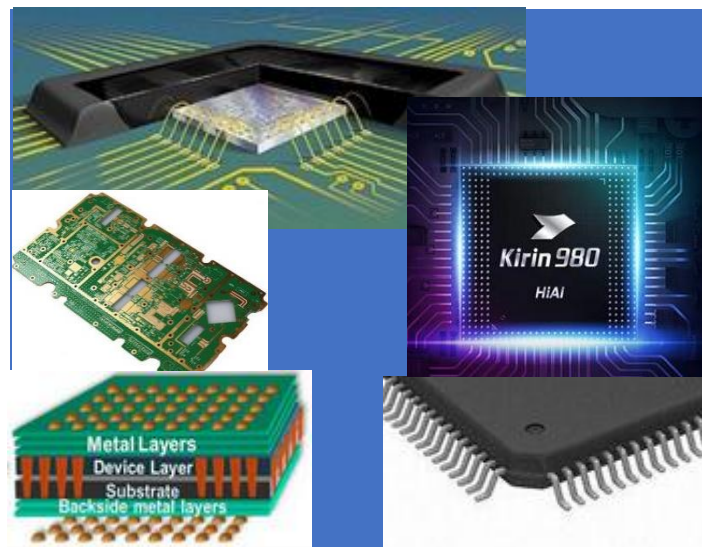


應用領域

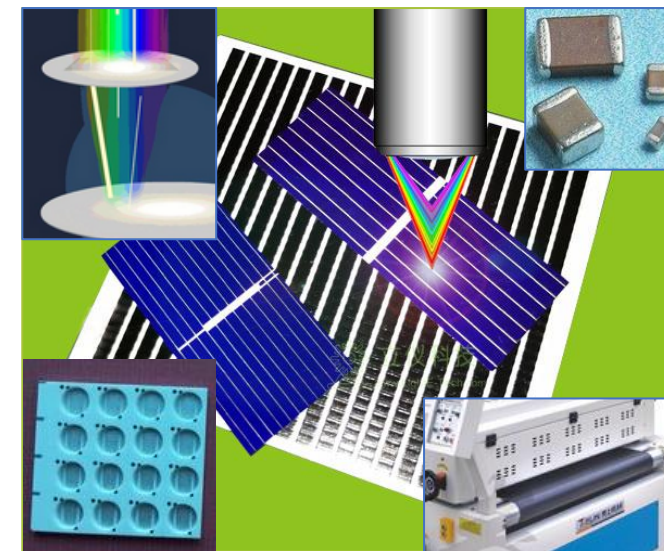
半導體、晶片等元器件行業



半導體矽片、鍺、碳化矽、氮化鎵、第三代半導體材料厚度、平面度、晶圓翹曲、蝕刻深度、分割槽深度等



晶片平整度，邦定線高度，銀膠、封膠、元件引腳共面測量，電路板點膠/3D組裝高度引導、晶片蝕刻凹坑溝槽測量



厚膜電路、銀漿、濕膜、光刻膠、塗布厚度測量，太陽能電池板膜厚、LTCC元器件測量

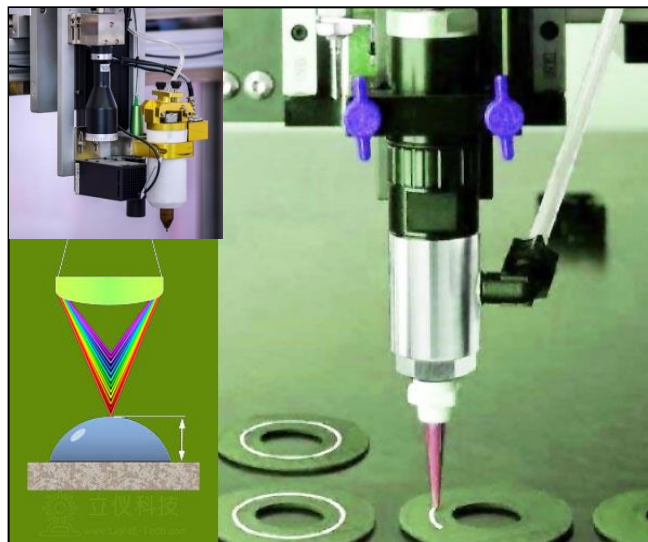
半導體、精密光學不可缺少精密測量

應用領域

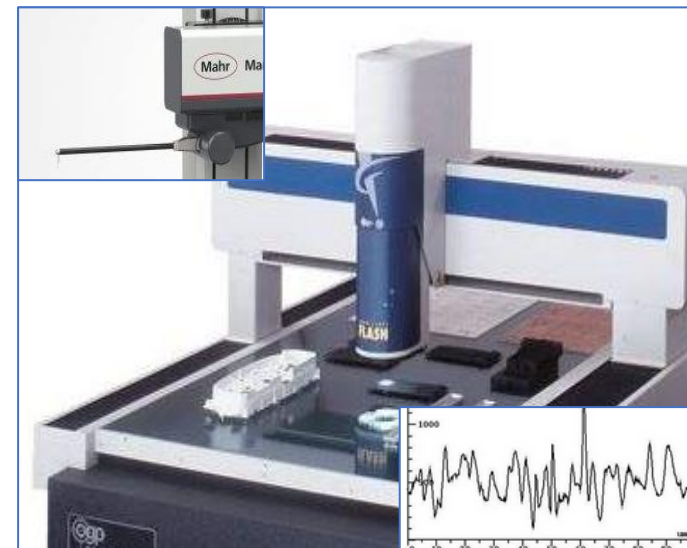
面板顯示/點膠/測量



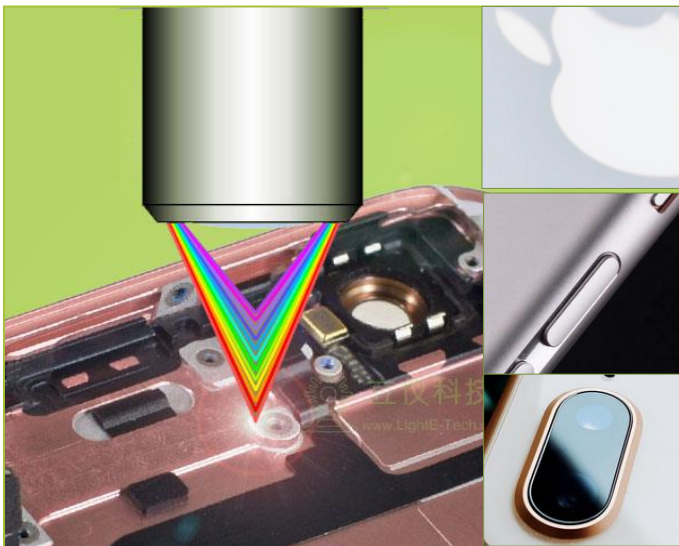
液晶面板、OLED、MiniLED
設備, 多層玻璃厚度, 間
隙, 面板電極厚度測量等



點膠引導、膠水測高、液
滴、液位、透明塗層厚度
測量



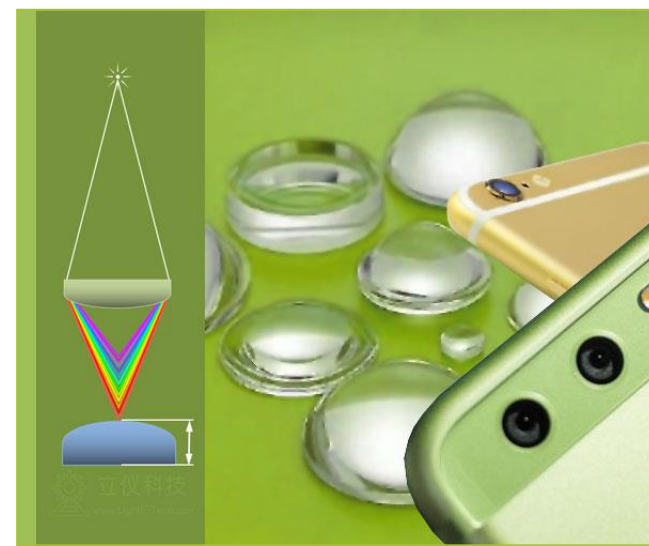
精密非接觸測量, 替代接
觸式輪廓測量, 粗糙度測
量



手機攝像頭框、中框、卡托、段差、臺階、刀紋、組裝定位、肉厚、粗糙度、平面度、輪廓、五金塑膠部件



3D玻璃檢測、陶瓷後蓋、石墨模具、5G陶瓷部件測量



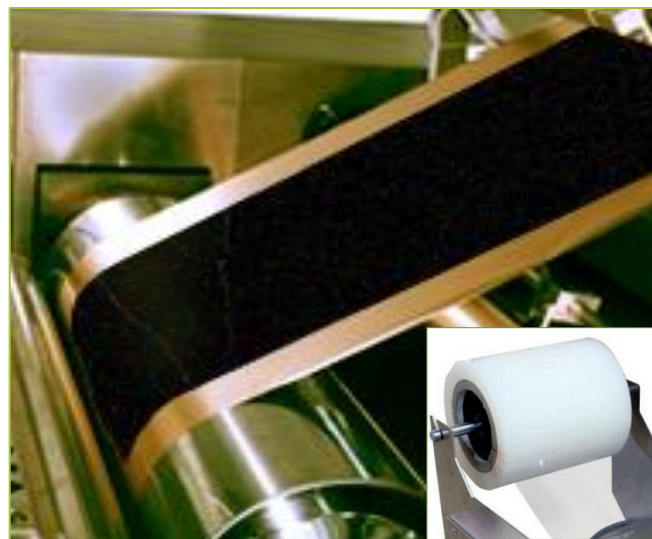
精密球面、非球面鏡片厚度、手機/安防攝像頭、光學零件檢測，組裝定位

應用領域

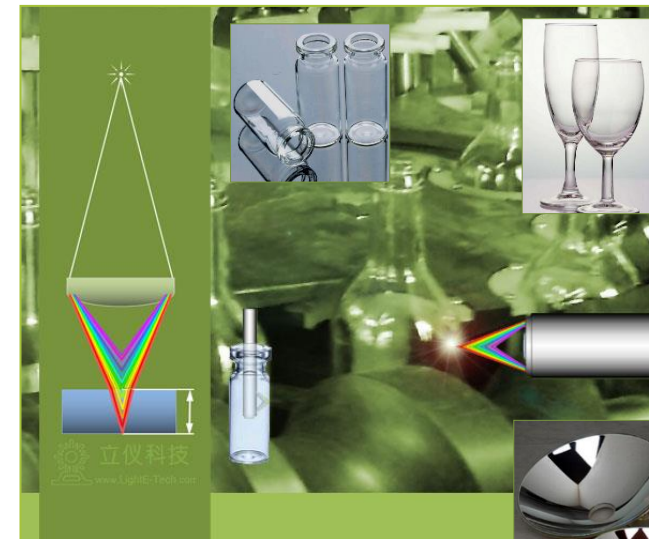
汽車/新能源、醫療/玻璃/金屬加工/科研/精密儀器等



飛機、高鐵、汽車玻璃、車燈、火箭零件、子彈裝藥、槍炮管尺寸測量。鐳射加工引導



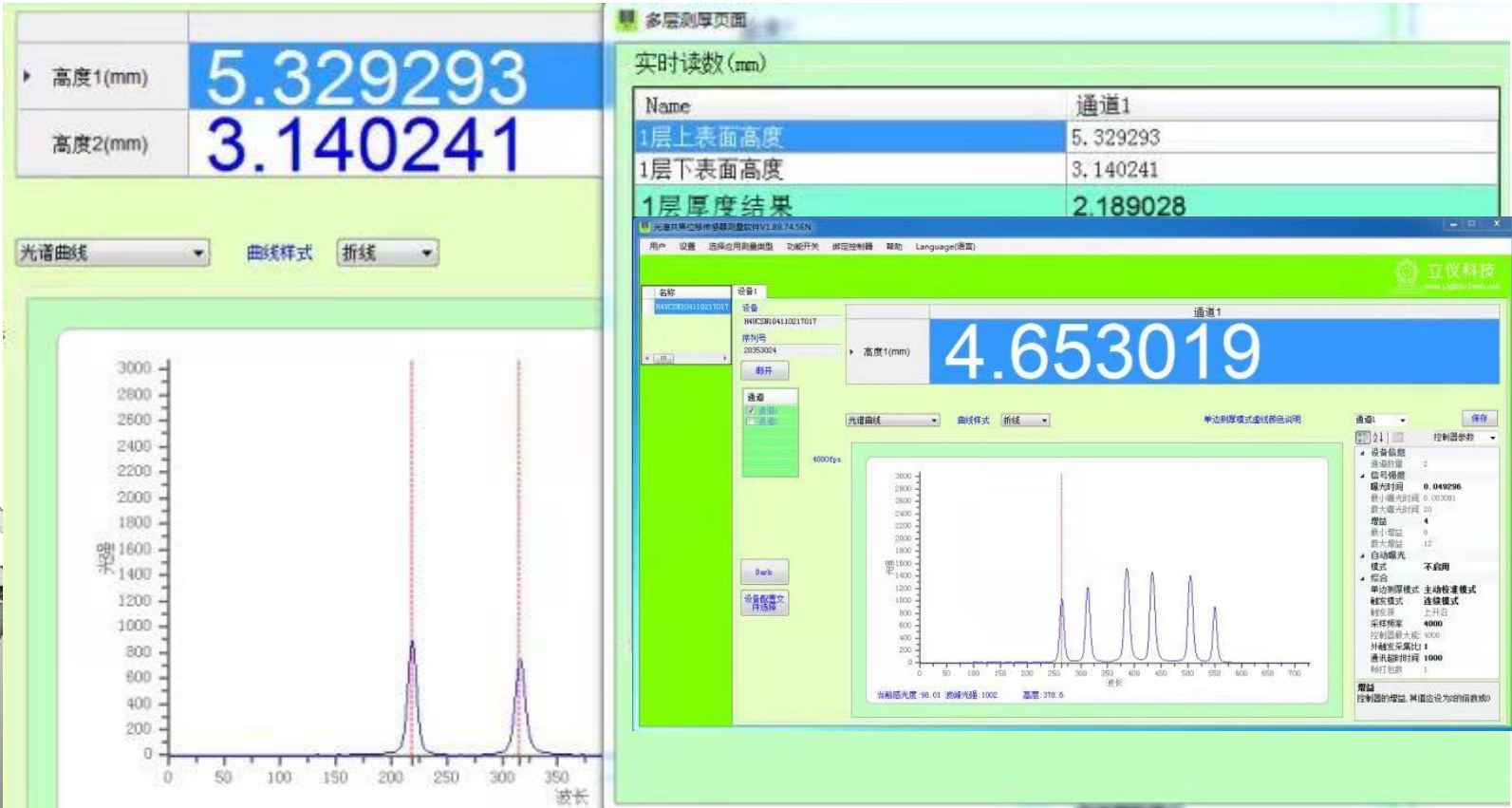
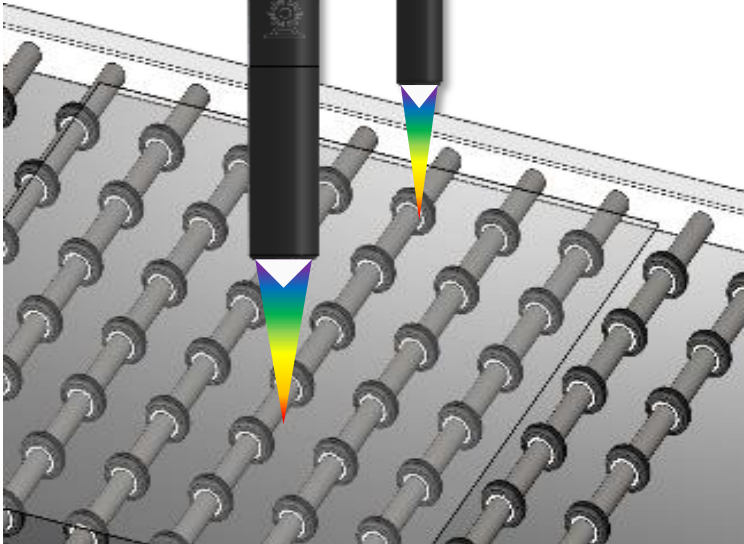
電池極片、隔膜、薄膜、箔片、玻璃、石墨烯、金屬厚度(對射測量)，軟包電池、刀片電池尺寸測量



玻璃測厚、玻璃瓶壁厚、玻璃/陶瓷容器、絲杆螺母內槽、螺紋內壁、發動機缸、鏡面電鍍零件測量

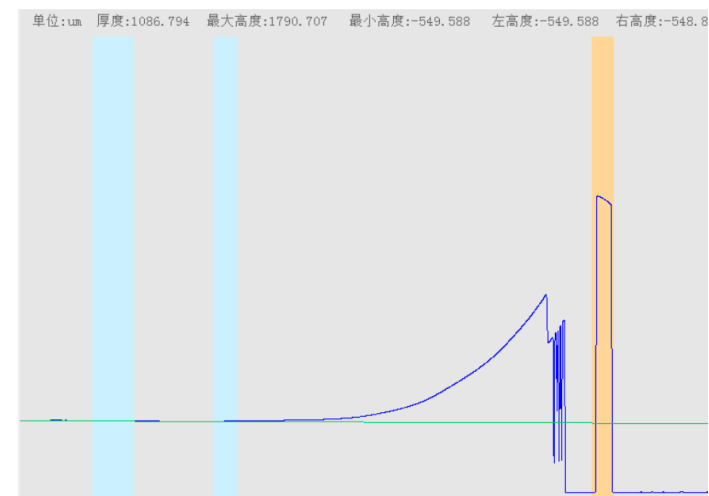
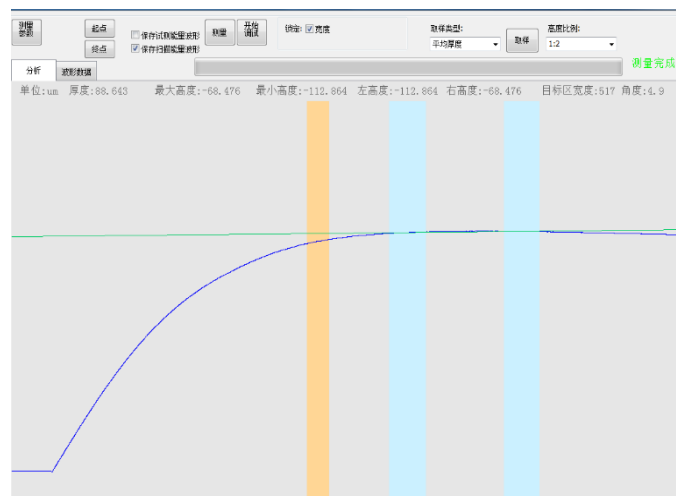
應用案例

各種玻璃材料及多層玻璃厚度測量



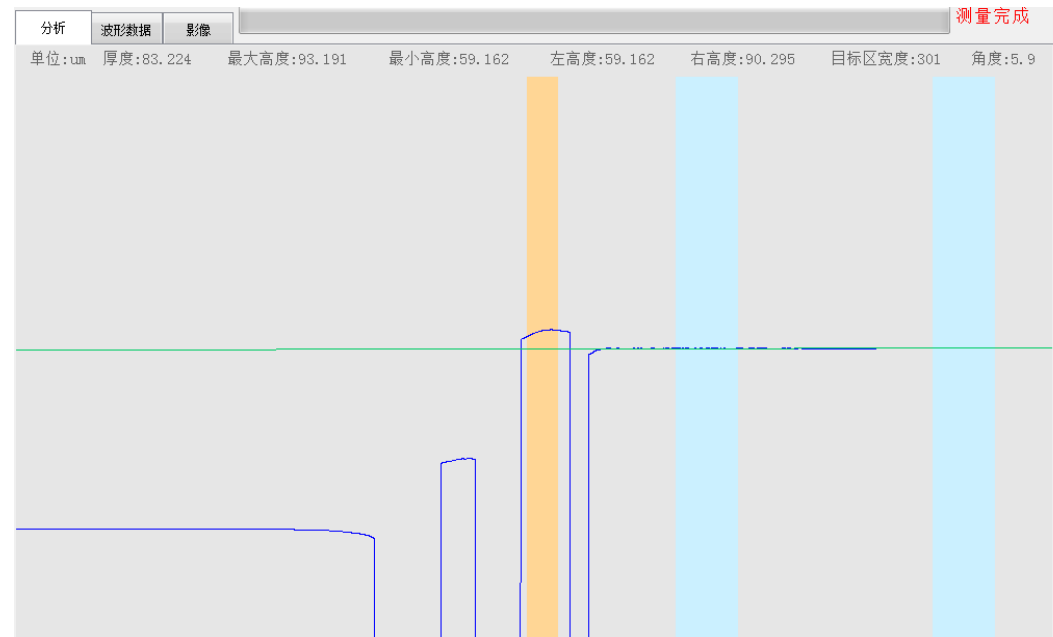
應用案例

玻璃平面度、輪廓、弧高測量



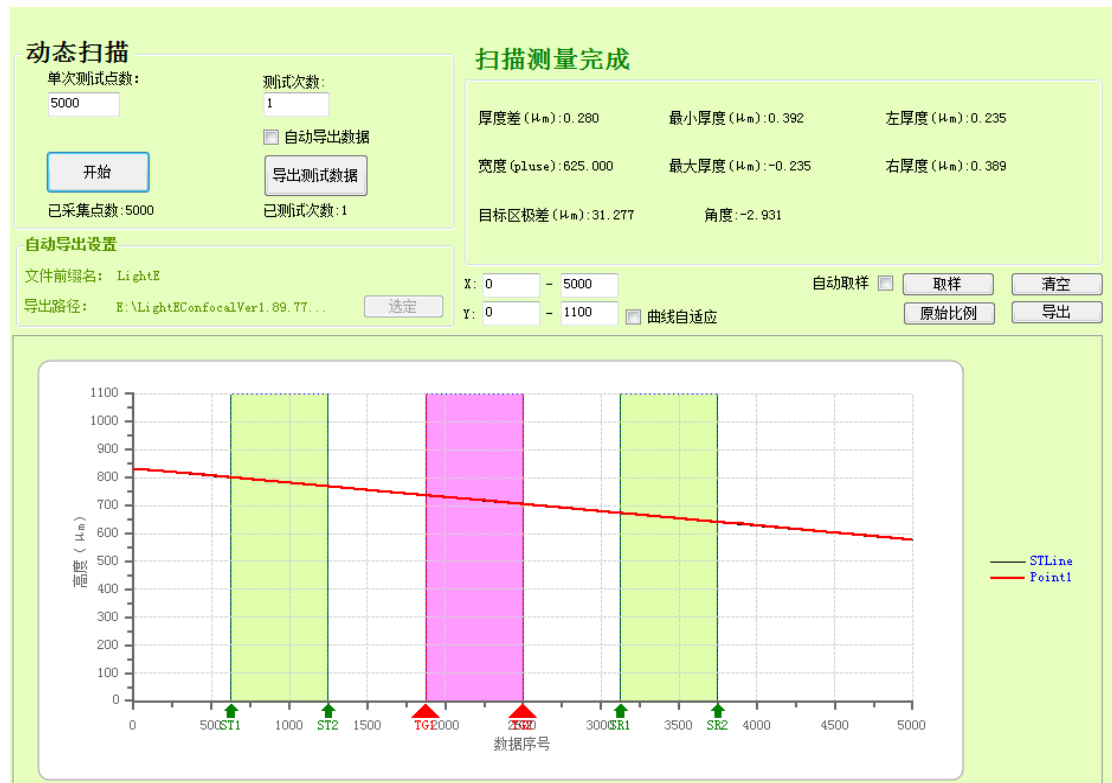
應用案例

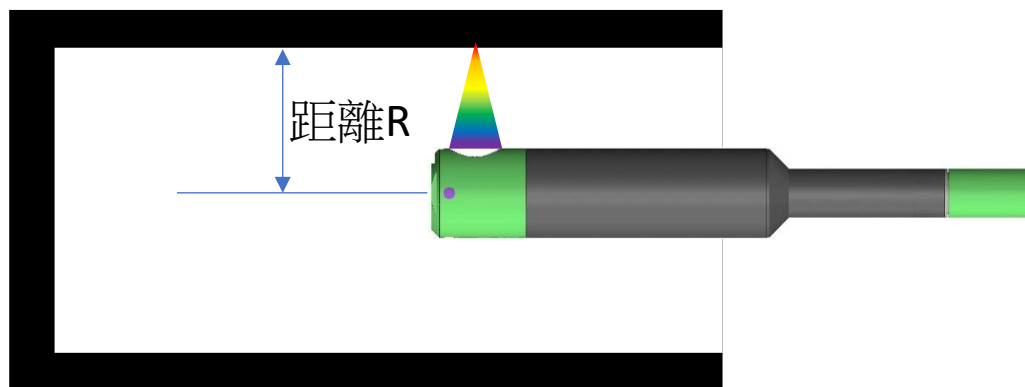
攝像頭間隙及段差測量



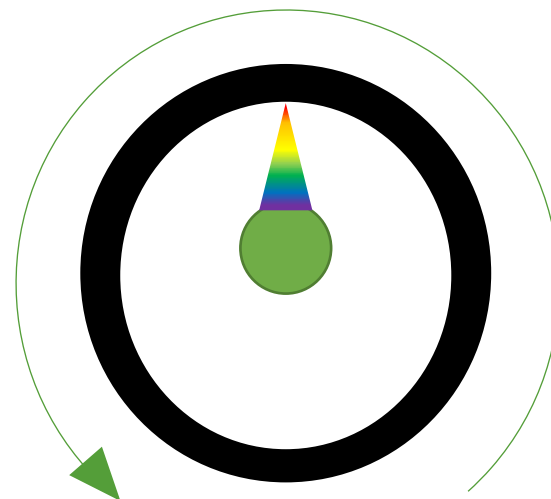
應用案例

攝像頭模組行程測量





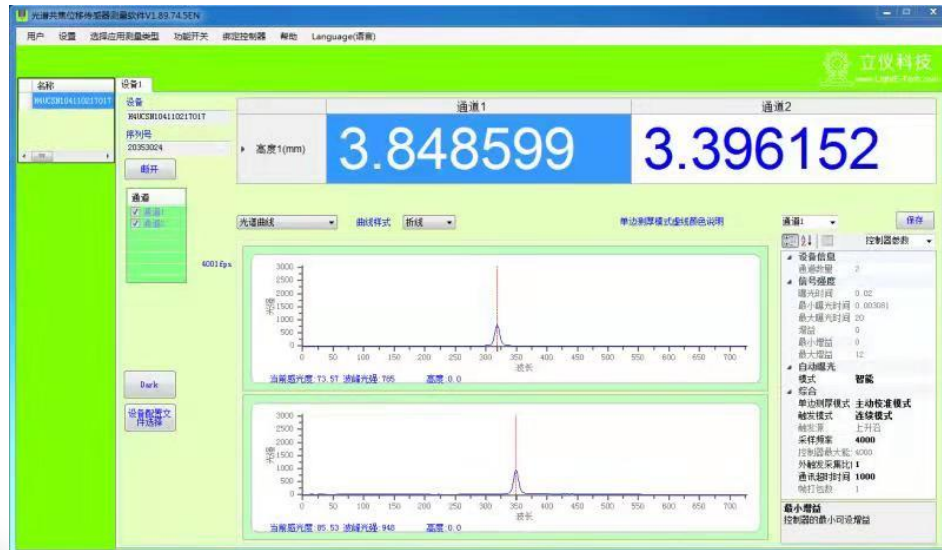
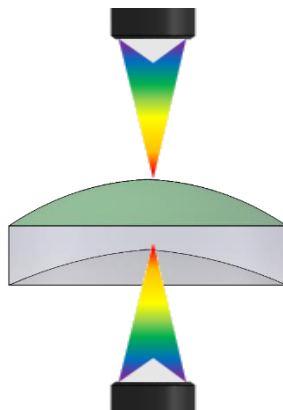
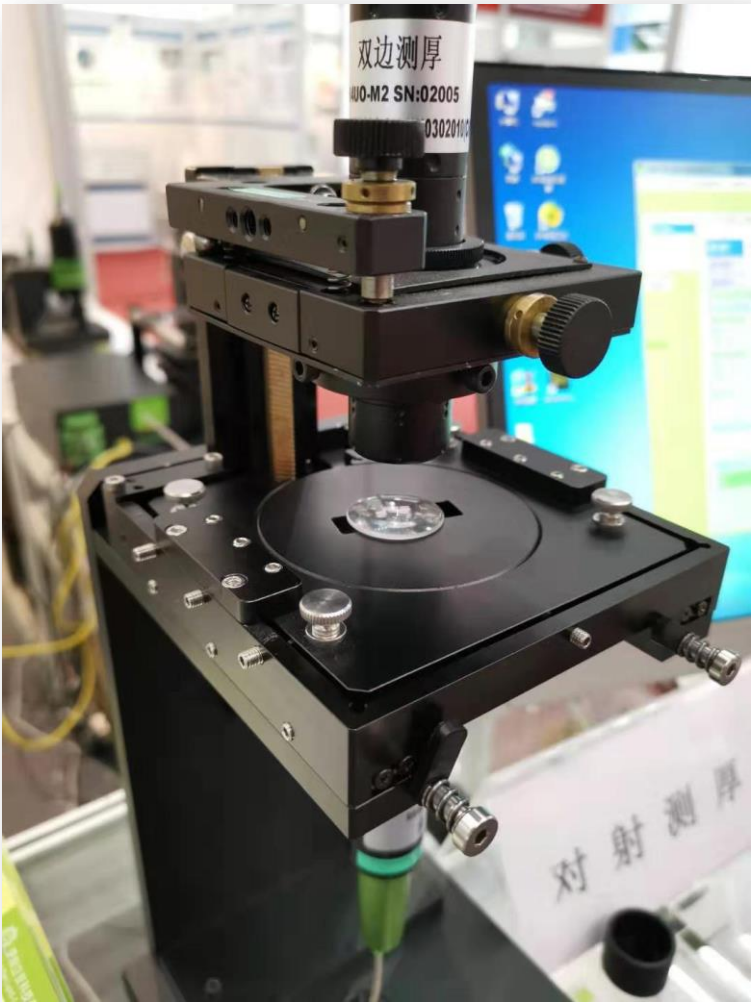
感測器深入到管子內部，可以測量到管子內壁的距離 R 。



感測器或管子旋轉360度，可以採集到足夠多的 R 值，擬合出一個圈來，然後求解這個圓的半徑就是需要的測量值。

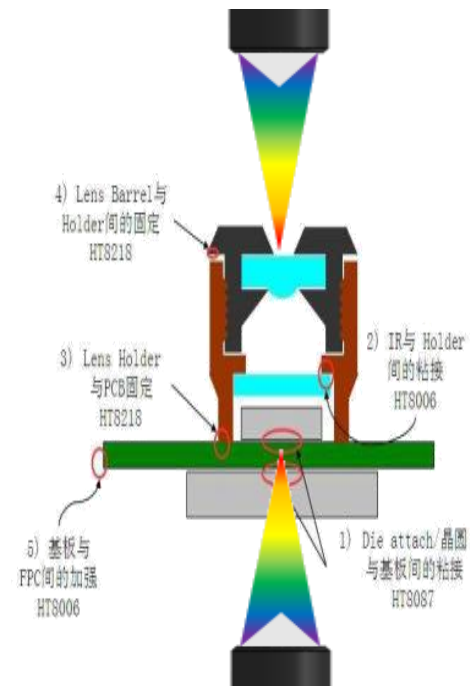
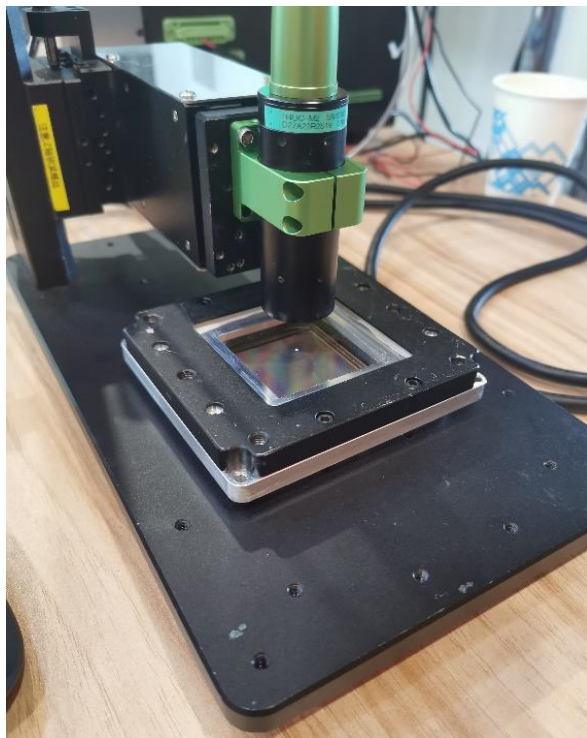
應用案例

光學鏡片，藍玻璃等精密產品厚度測量



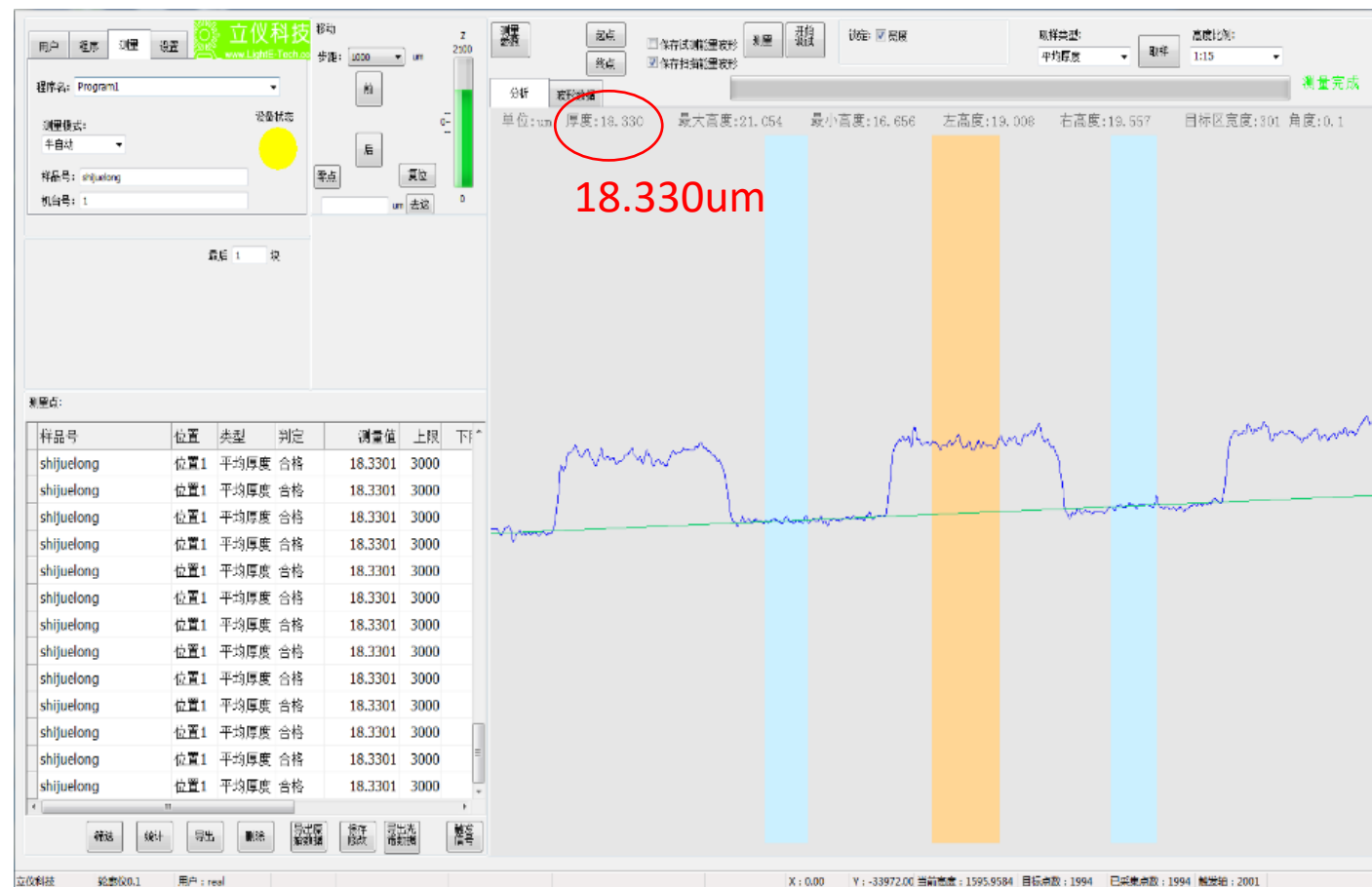
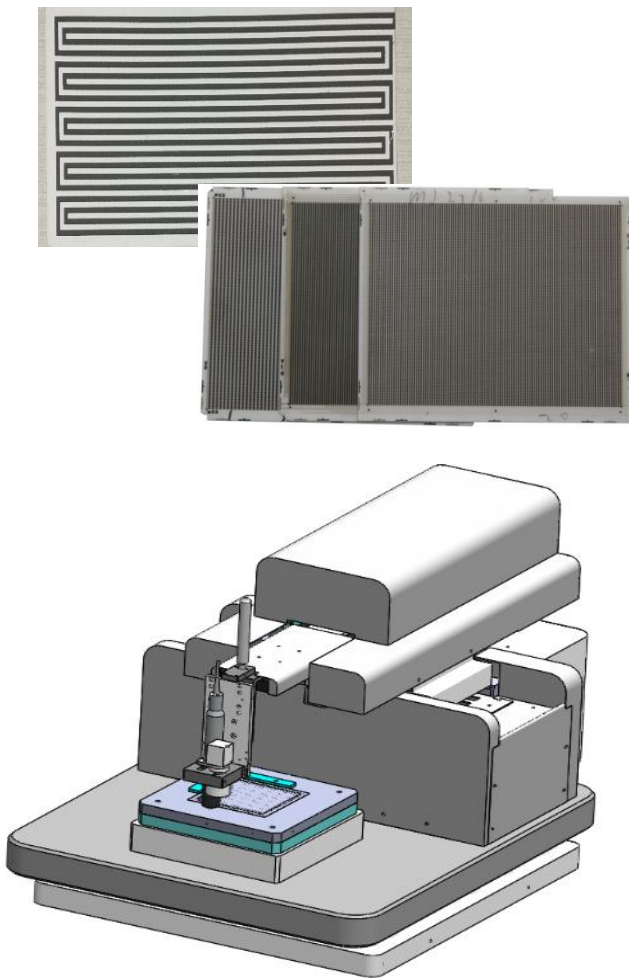
應用案例

晶片貼裝平面度，傾斜度檢測



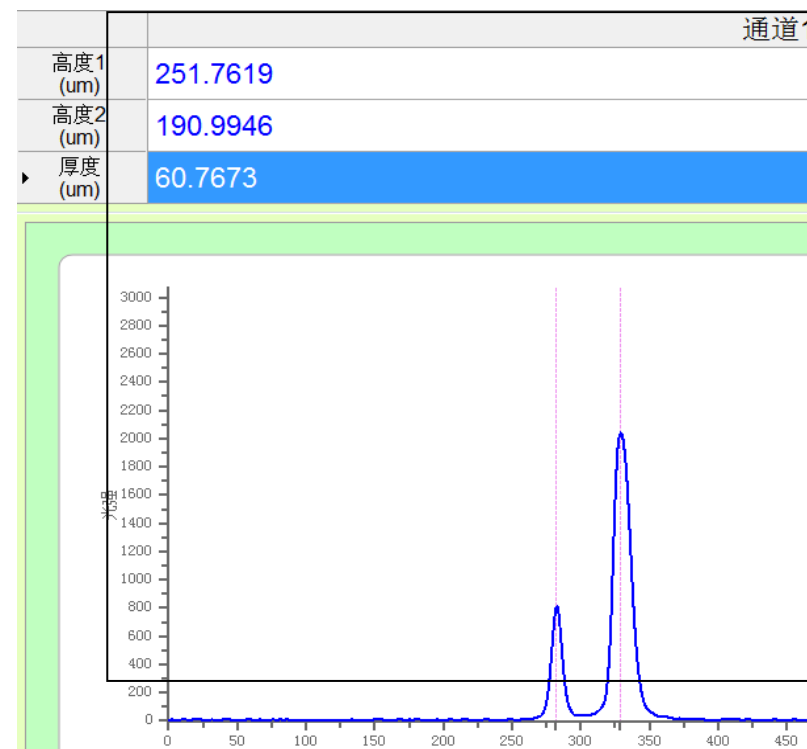
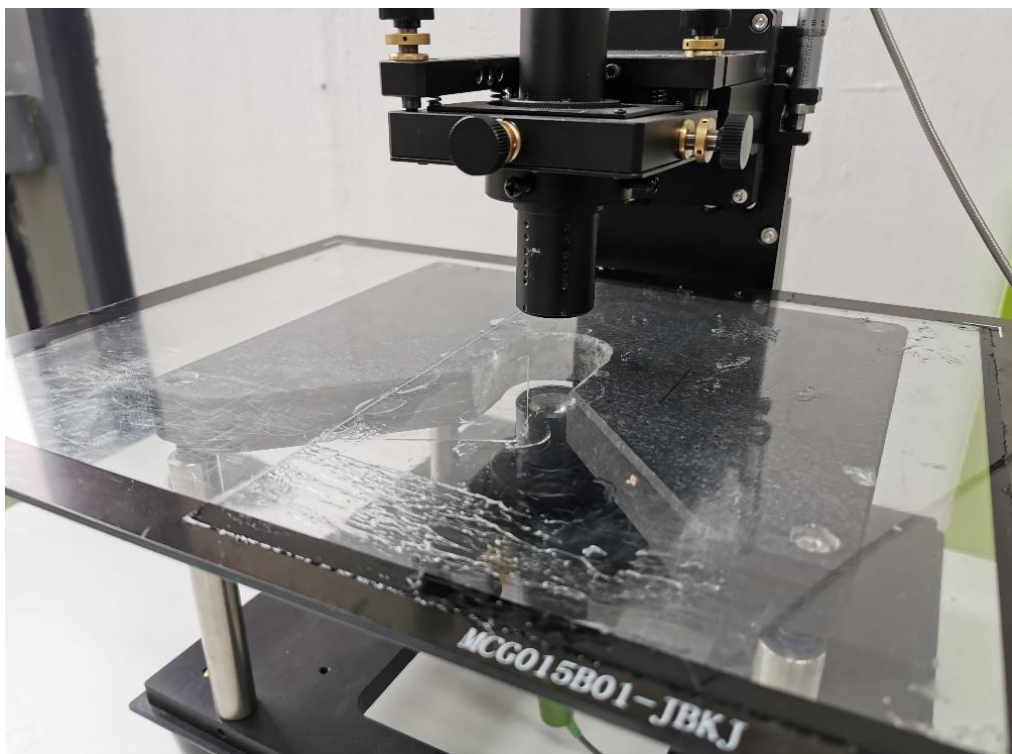
應用案例

銀漿、LTCC/MLCC濕膜、油墨厚度測量



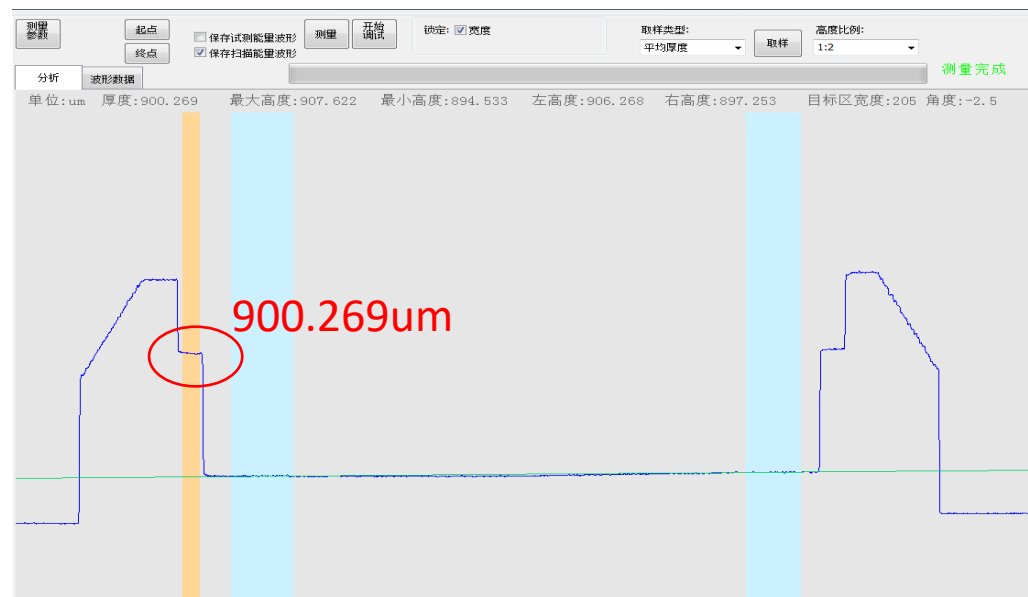
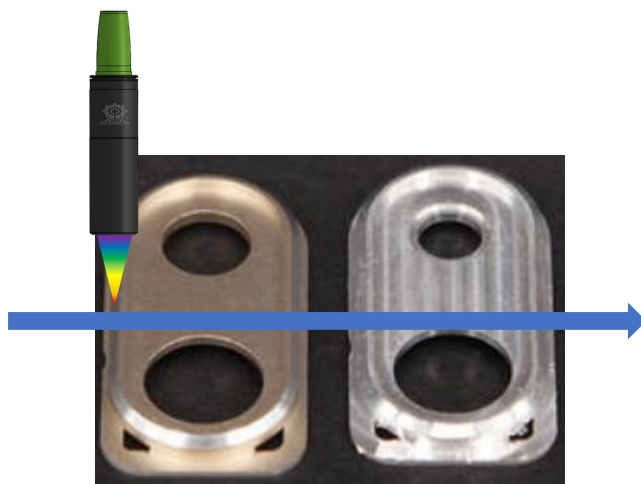
應用案例

透明膠水，三防漆厚度測量



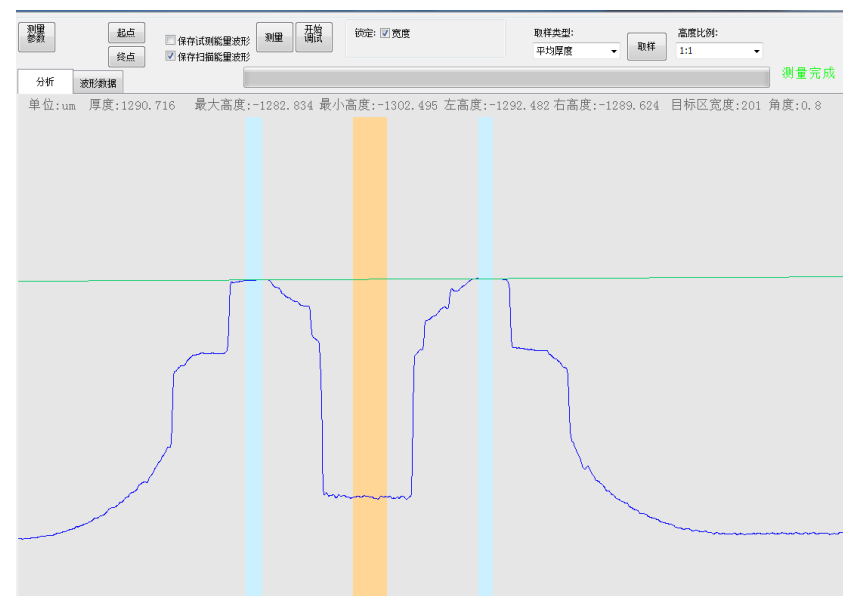
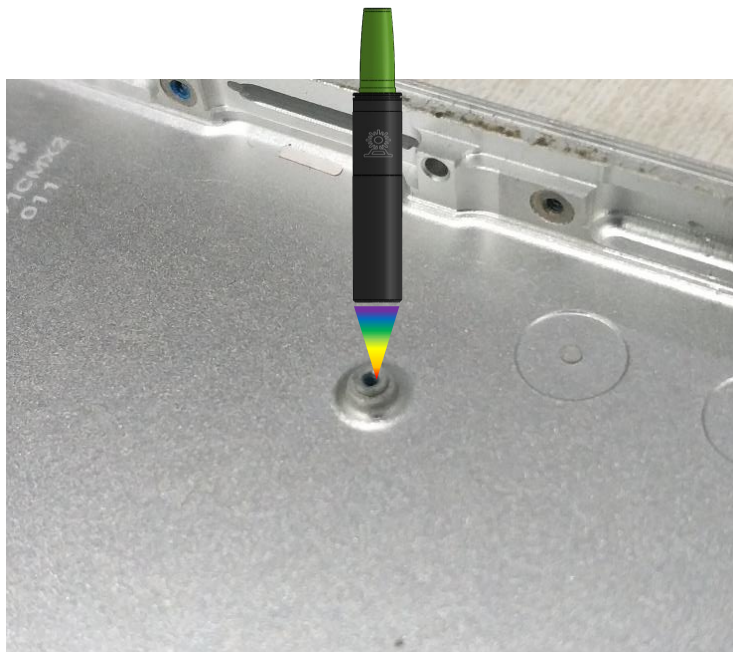
應用案例

金屬件臺階高度差測量



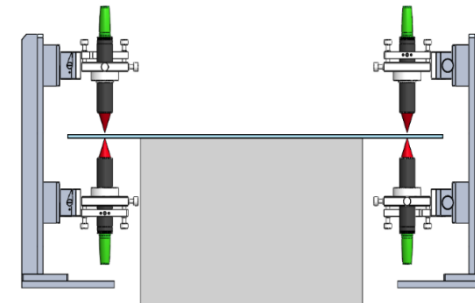
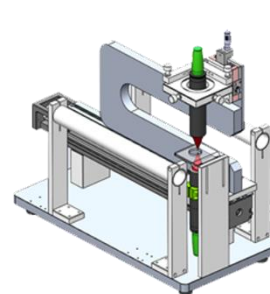
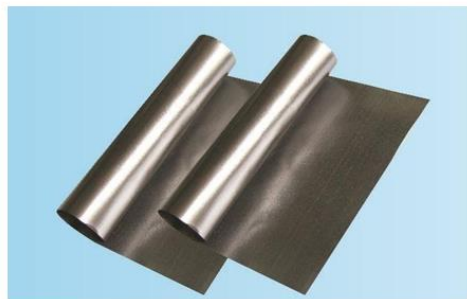
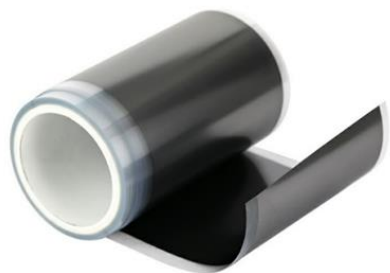
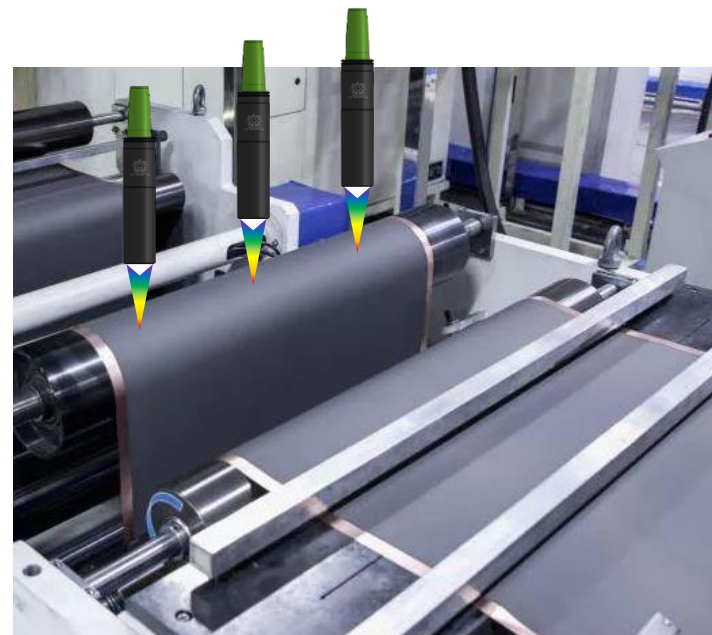
應用案例

孔的深度、臺階高度差測量



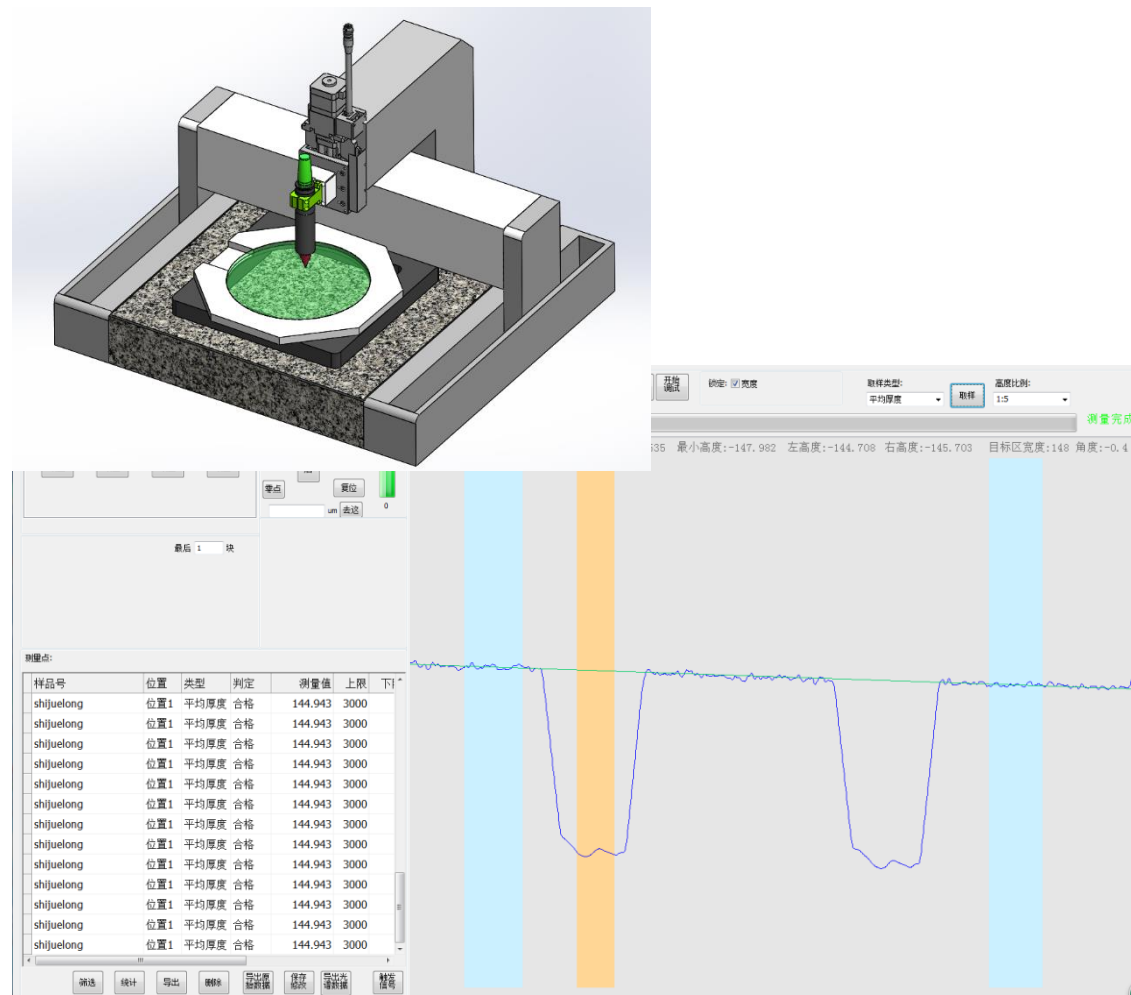
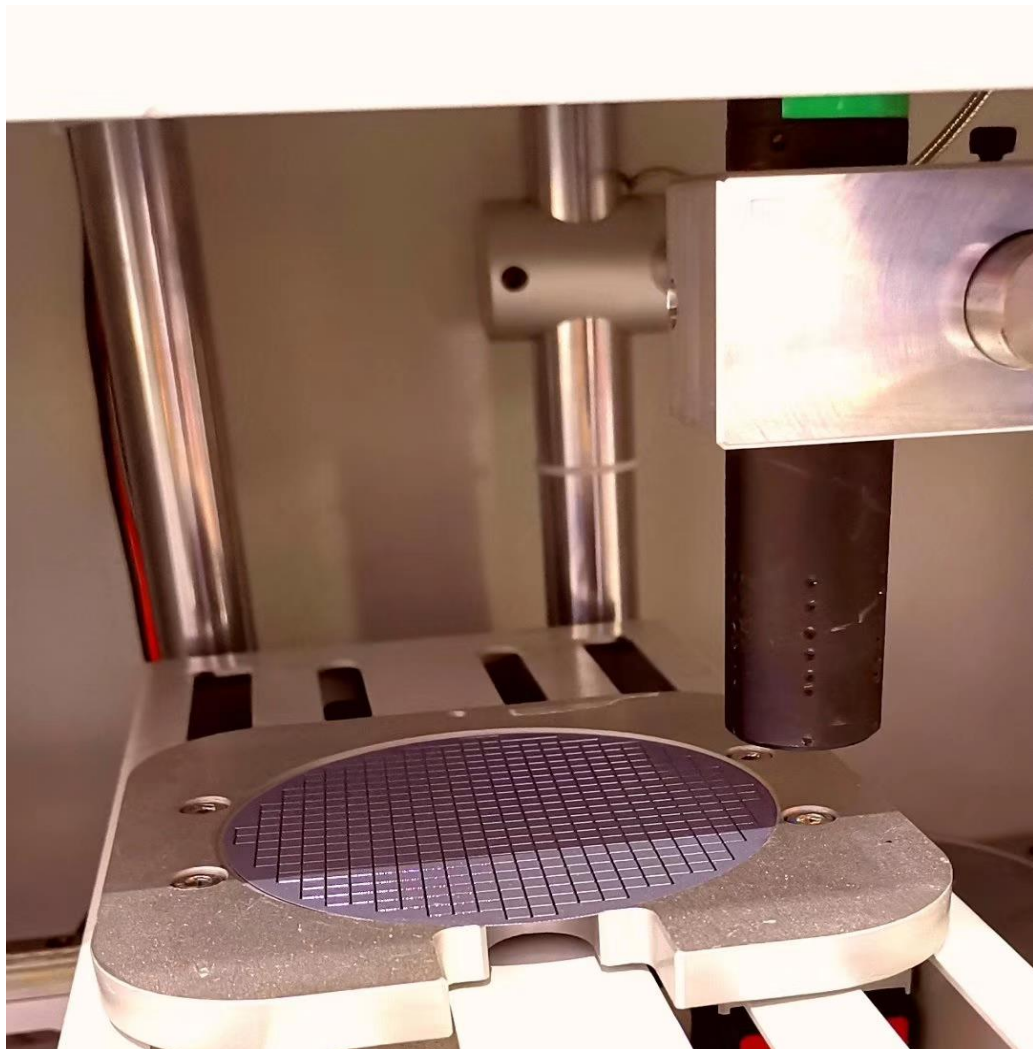
應用案例

鋰電銅箔、電池極片、石墨導熱膜厚度一致性測量



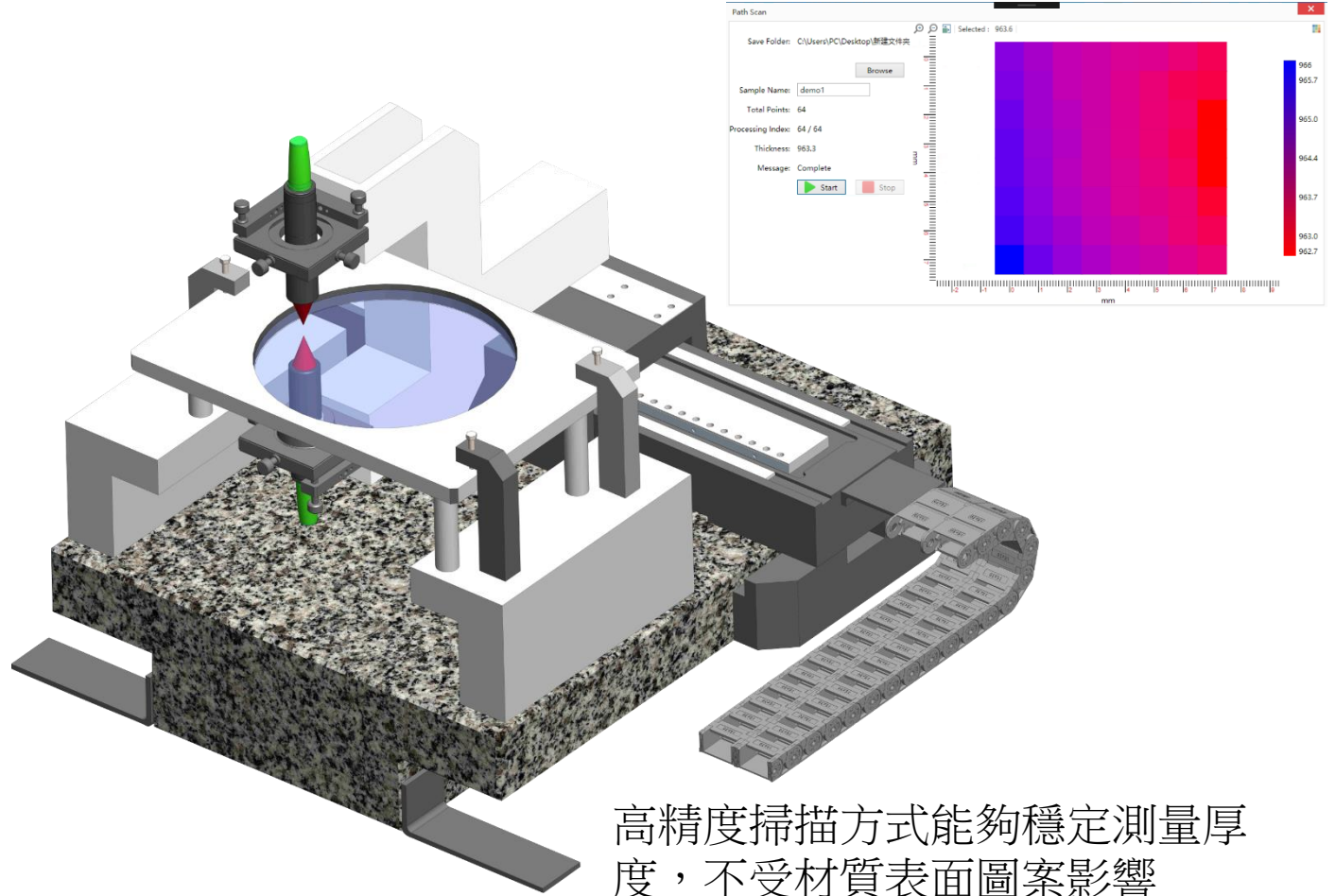
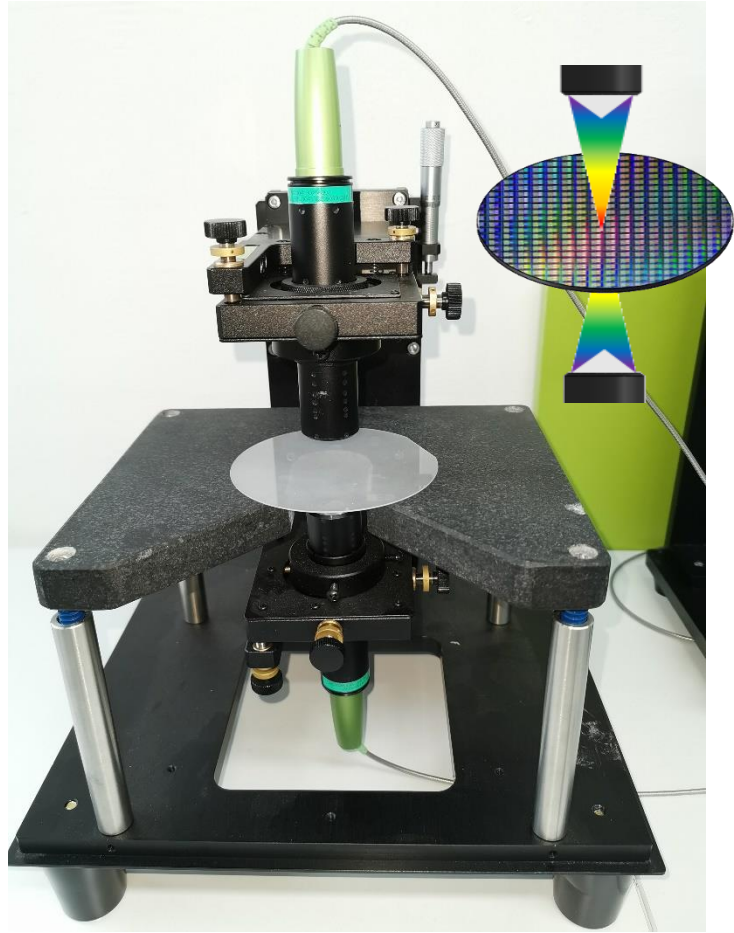
應用案例

晶圓三維形貌、溝槽深度測量



應用案例

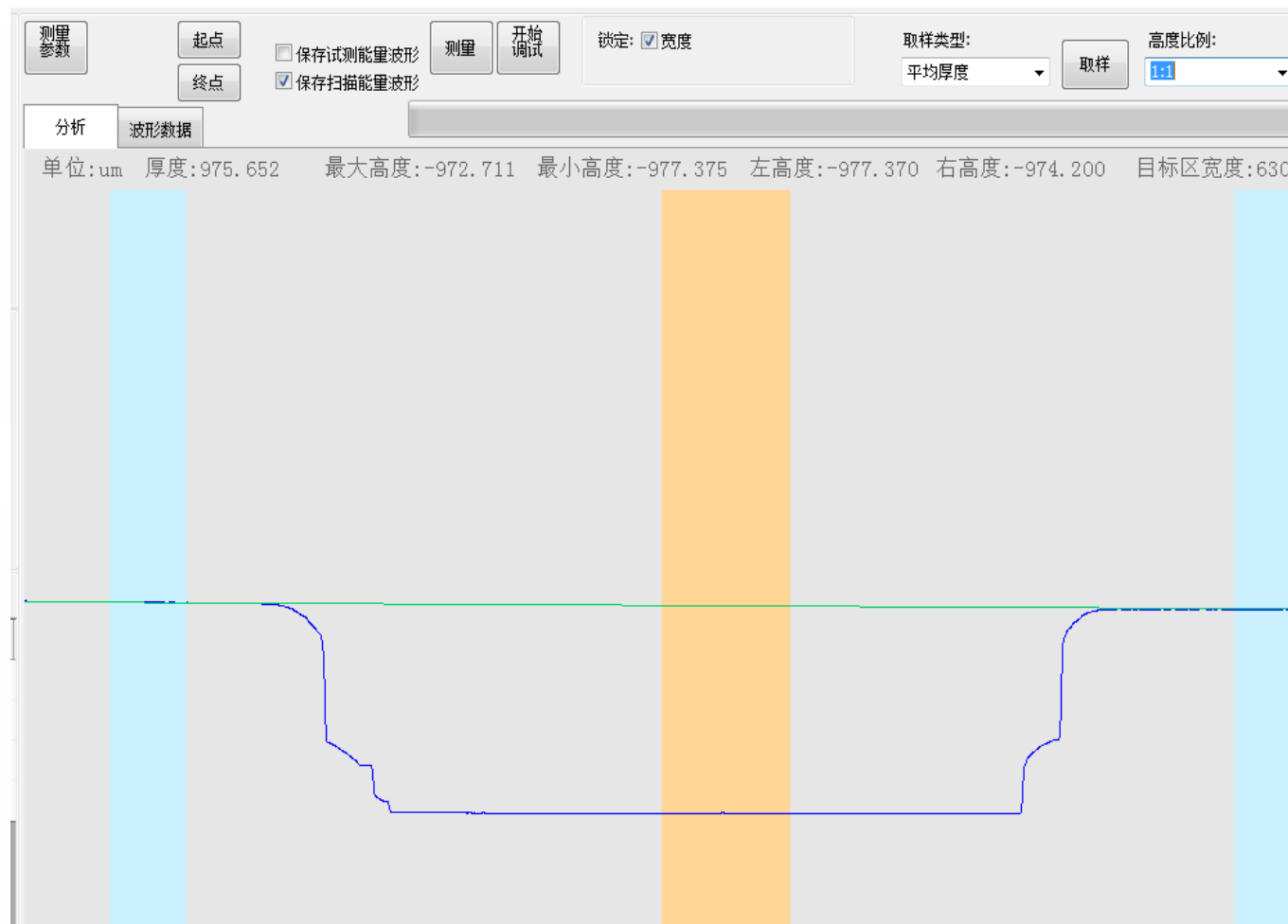
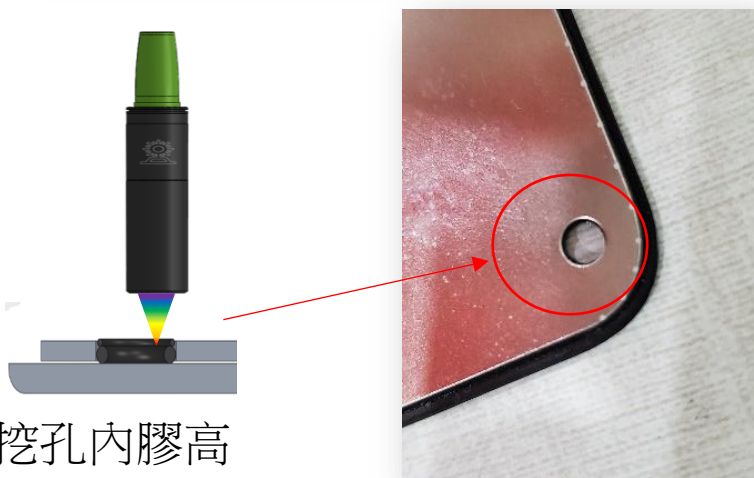
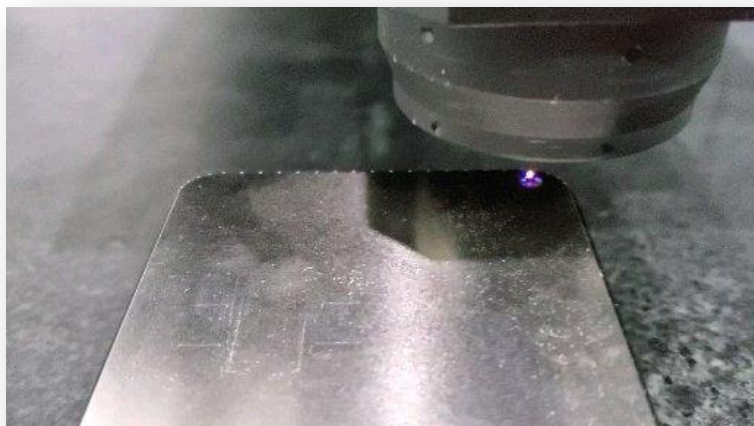
晶圓，平面度，厚度測量



高精度掃描方式能夠穩定測量厚度，不受材質表面圖案影響

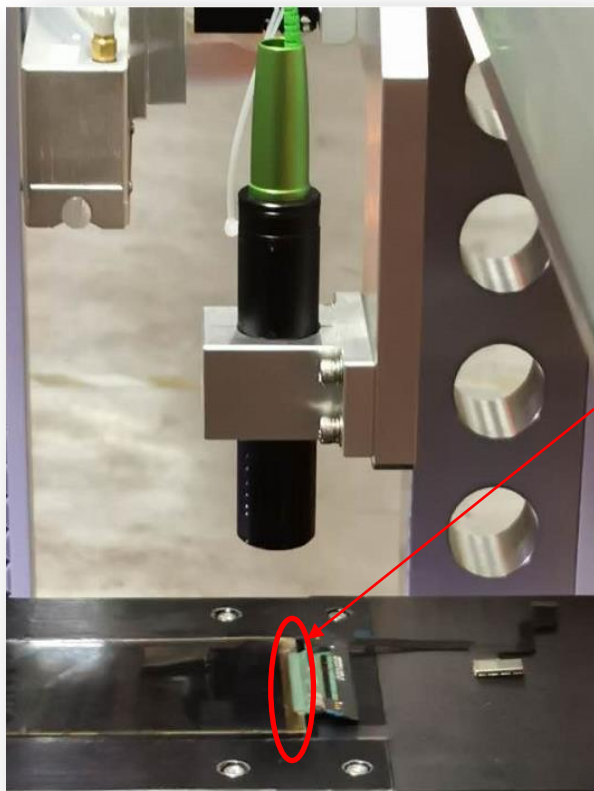
應用案例

顯示面板膠水厚度、高度及輪廓測量

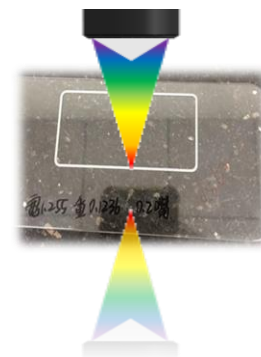
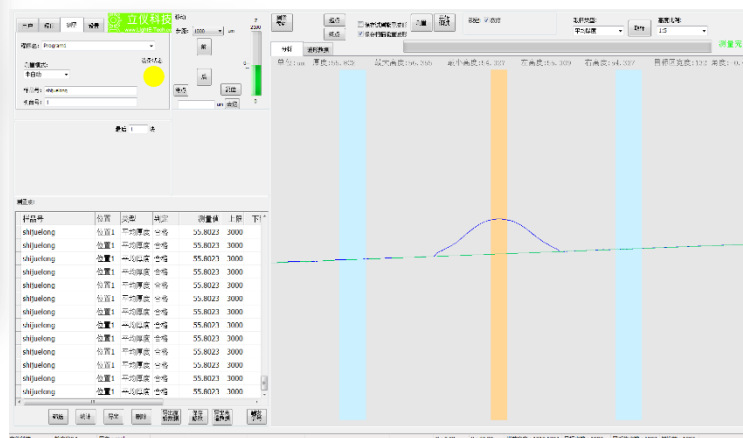


應用案例

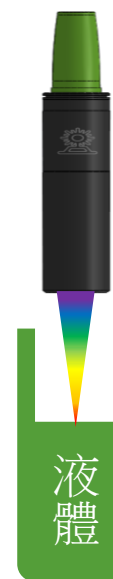
液體、透明膠水高度及輪廓測量



透明膠水輪廓



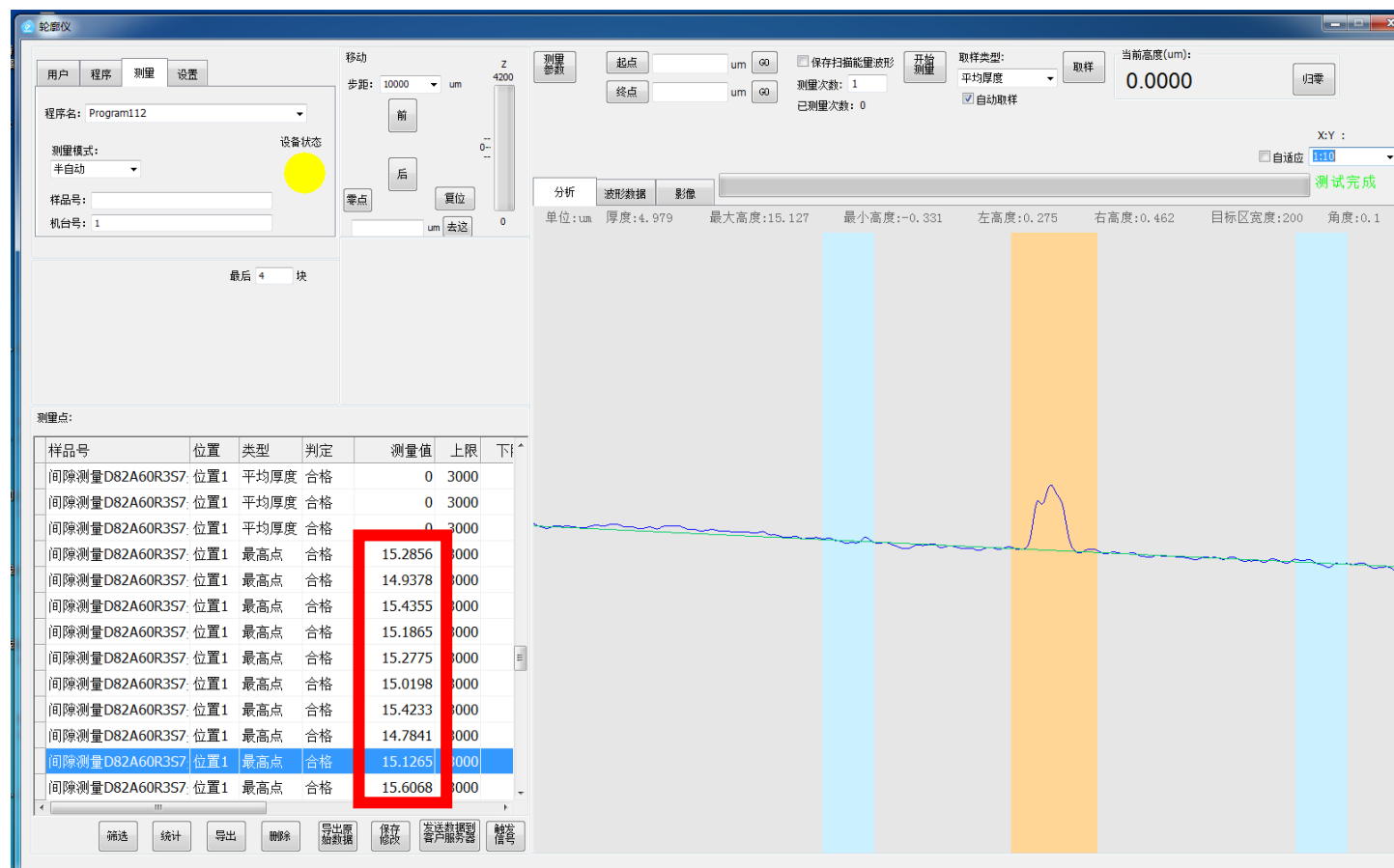
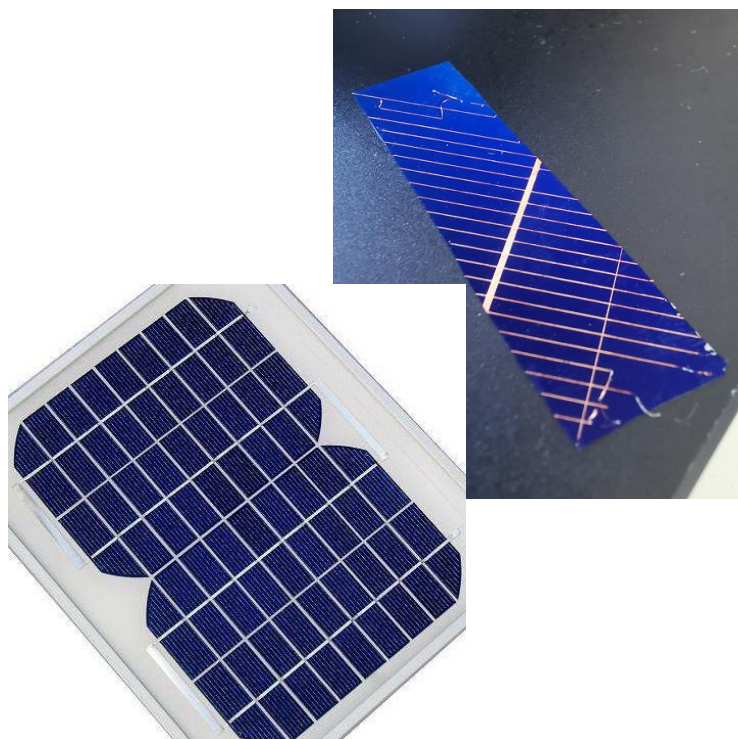
透明膠水厚度



液體高度

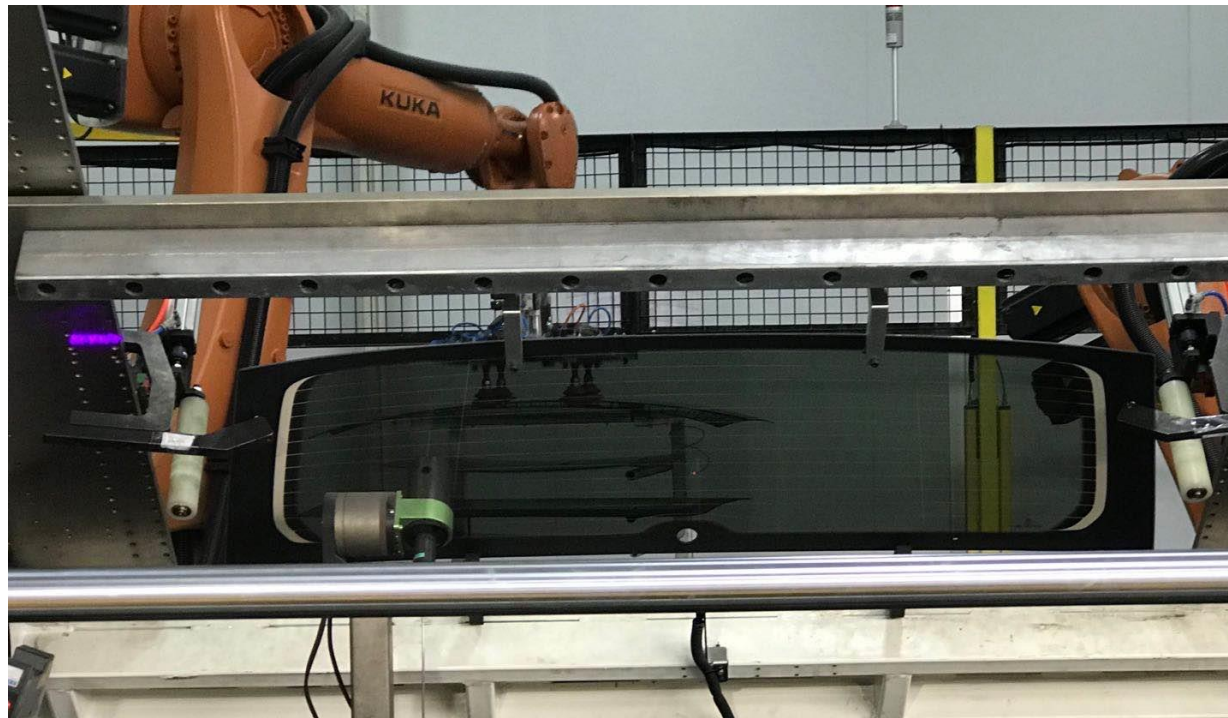
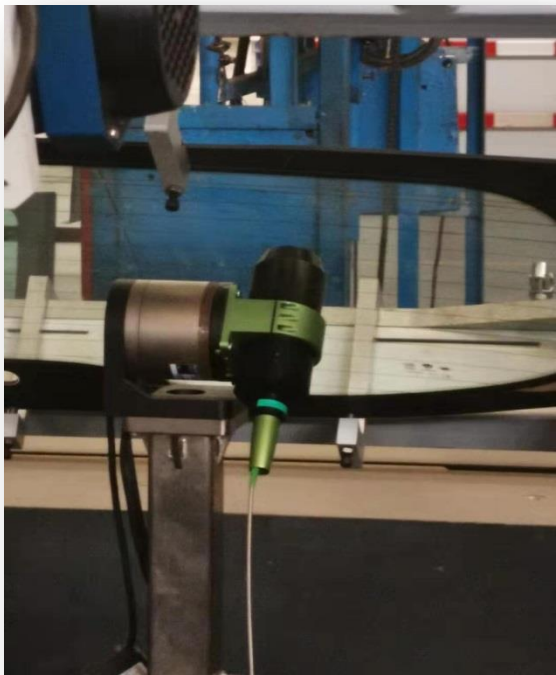
應用案例

太陽能光板膜厚、金線高度測量



應用案例

汽車玻璃厚度曲率測量



前後擋玻璃，天窗玻璃，車載玻璃等厚度曲率掃描測量