

## 【QUV 紫外光耐候試驗機】

本試驗機台係利用短波紫外光來加速模擬太陽紫外線照射，造成曝露在戶外的材料的光降解過程，並真實地再現由陽光造成的物理性能損傷，以完成耐候性能檢測。損傷類型包括褪色、光澤消失、粉化、龜裂、開裂、模糊、起泡、脆化、強度減小和氧化。另外，此試驗機的冷凝系統也能夠真實模擬樣品曝露戶外(如潮濕有水氣時)，是否因為吸收水氣造成樣品損壞或變化，也可以測試樣品防水的效能。QUV 試驗機可方便地容納多達 48 個樣品，完全符合國際、國家和行業規範，確保了測試程式的可靠性和可重複性。QUV 可以全天候無間斷地運轉且加速試驗品之老化過程；僅需幾周的時間，則可使樣品在室外環境條件下，相當於經歷數月或數年的老化狀況。其樣品規格需為 150 mm\*75 mm\* 10 mm，適用於測量多種樣品(類如水泥塊、塗料、塑料、隔熱紙等)，量測之標準可參考 ASTM G154 、CNS 15200-7-7。

## 【QUV Accelerated Weathering Tester】

QUV accelerated weathering tester uses the short-wave ultraviolet light to accelerate the photo-degradation process stimulate the durable materials exposed to the sun's ultraviolet radiation. This machine can reproduces the truly physical damage caused by the sunlight, such as fading, gloss-losing, chalking, cracking, blurring, blistering, embrittlement, strength-reducing, and oxidation. In addition, the tester with the condensation system can also simulate the effect of outdoor humidity on the sample broke by moisture absorption and the efficacy of water-resistance. The machine can easily accommodate up to 48 samples, fully suitable on international specifications, ensuring the reliability and repeatability of the test project. This machine can operate continuously all day, which can accelerate the aging process of the test sample. In a few days or weeks, the QUV UV tester can reproduce the damage that occurs over months or years outdoors. The sample size needs to be 150 mm\*75 mm\*10 mm, and the various type of samples can be accepted, like concrete, cement, coating, plastic, and insulation film, etc. The measurement standard can refer to ASTM G154, CNS 15200-7-7.



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