

ATF Series

自動對焦系統



◆ 產品特色

- 移動或靜態物體的高速即時自動對焦
- 內建高響應伺服馬達控制器，每秒對焦3000次
- 對應area scan和line scan的高速顯微影像掃描完整解決方案。高度整合系統提供簡易安裝與使用
- 高階SoC FPGA技術和全數位化演算法提供高可靠度和高精確度
- 內建高均勻度光源系統，並提供超高亮度光源或暗視野光源的選配，亮度可達1M Lux.
- 可選配線性多物鏡轉換系統(最多可裝置4個物鏡)並保證符合Class 100無塵等級
- 與infinity-corrected microscope系統相容
- Ethernet網路控制介面，抗躁能力提供工業級的可靠性

◆ 應用範圍

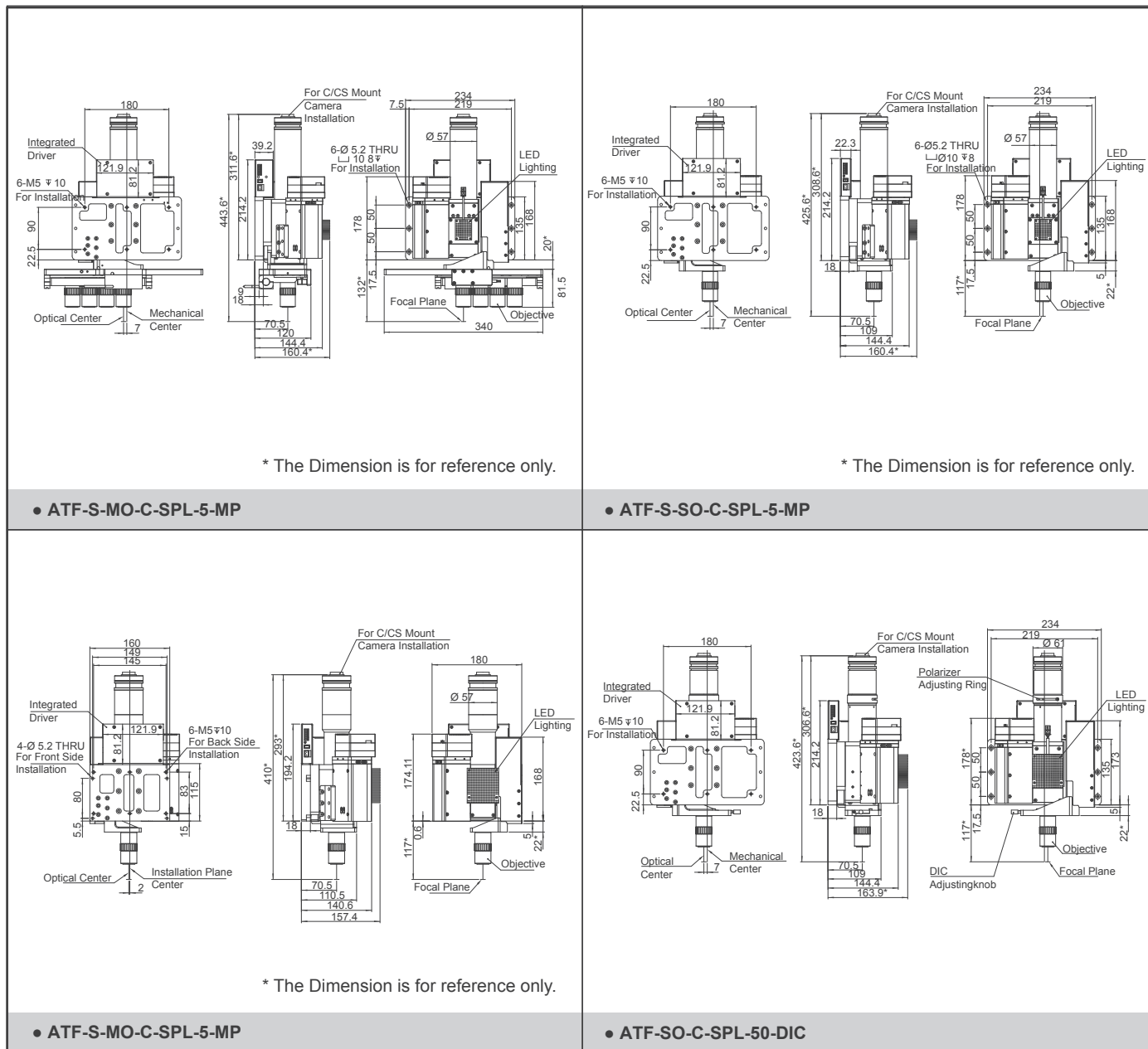
- 半導體光學檢測 — Wafer, Package and Die Sorting
- 面板光學檢測 — TFT-LCD, Solar Cell and Micro-LED
- 生物醫學取像 — Liquid Biopsy, Cell Slide and Fluorescence Microscopy
- 精密雷射製成 — Cutting, Marking and Dicing

◆ 產品規格

Control Interface	High-speed Ethernet
Laser Wavelength	785 nm / 820 nm
Laser Safety	Class 3B
Focusable sample properties	Reflective surface, matte surface and transparent material
Specimen Reflectivity	1% ~ 100%
Image Field	Max. 30 mm
Camera Mount	C-Mount / M42-Mount
Focusing Accuracy	One-quarter ~ one-sixth of DOF
Focusing update rate	3 KHz
Focusing Range	±600 µm (objective lens 20X) ±2,700 µm (objective lens 10X) ±9,200 µm (objective lens 5X) ±10,000 µm (objective lens 2X)
Z axis - Travel	±10mm
Z axis - Resolution	0.015 µm with 16-bit encoder
Z axis - speed	20 mm/s @ single lens. 10 mm/s @ linear lens changer and four objectives.
Illuminator - Default	5W high uniformity lighting with built-in LED driver.
Illuminator - Options Lighting	MLSU - High power bright field illumination. DFLS - Ultra-high intensity dark field illumination.
Illuminator - Options LED Driver	Programmable LED Driver with high-speed external trigger synchronization capability. The maximum frequency of strobe input reaches to 100kHz.

◆ 產品尺寸圖

(mm)



◆ 取像實例

