

# LASER X



Single Mode Alignment System



# Performance Parameter

Standard models	Single/dual Lens, Single/dual fiber array(FA)
Designed for different packaging and alignment process	BOX, COB, ceramic substrate, SIOB, PLC chip, SiP, COC to PIC, COC to FA, COC to Collimator, V-groove
Applicable product type	CWDM, DR Series, FR Series, optical engine, LR4, ER4, SOA (semiconductor optical amplifier), tunable laser, coherent devices, laser sensor, RGB laser
Optical components for alignment	Lens, Lens array, prism, FA, bLOCK, optical Fiber, MUX, DMUX, collimator, adapter, SIOB, COC
Equipment characteristics	High precision machine vision assisted positioning system, effectively improves the production efficiency and product quality
	High precision linear slide (accuracy $\pm 50\text{nm}$ ), meet existing requirement of production of photonic devices, and sufficient for future upgrade to save capital investment and reduce lead time
	Modular design to meet requirement of different customers with quick response time Provided calibration tools effectively ease the work for engineers to release new station to production
	The modular design allows -Multiple components to be aligned simultaneously (i.e. Tx/Rx) and effectively improves the production efficiency -Multiple components to be aligned synchronously for complex optical design (i.e. 2-lens) system
	Proprietary cost-effective solution for PIC/FA gap control for SiP-based product design
	High level of automation, including system calibration, dispenser/fiber cleaning etc
	Software design with manufacture management considerations, with foolproof design and classified access control
	Hardware/software customization, for example automatic load/unload process providing most cost-effective solution to the most customers