

GTK-OSI1

Passive Optical Component Inspection Machine

2x
Capacity

$3\sigma \leq 0.2\mu\text{m}$
Repeatability



Introduction

Ultra-Precision Optical Inspection

Provides ultra-precision measurement for passive optical components, achieving $3\sigma \leq 0.2\mu\text{m}$ repeatability for stable, reliable optical alignment verification.

Value Proposition

Scalable Optical Component Production

Enables fast, automated inspection with 1–2 second cycle time and up to 20-part capacity, boosting throughput, and supporting scalable production with improved yield control.

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Product SPEC

Demission (inch)	76.4 (L) x 33.5 (W) x 68.2(H)	CCD	4508 x 4098 Pixels
Weight	970 Lb	PC System	Windows 11
Measurement Subject	FAU, Fiber Array, V-Groove, MT/MMC	Measurement Time	1 – 2 sec/1 core, 1 groove
Image measurement repeatability	FA, VG: $3\sigma \leq 0.05\mu\text{m}$ MT, MMC: $3\sigma \leq 0.2\mu\text{m}$	Auto X,Y,Z stage	X-axis: 100mm, Y-axis : 12mm, Z-axis: 40mm

Core Capabilities



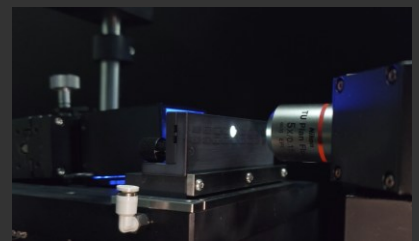
Ultra-High Precision

$3\sigma \leq 0.2\mu\text{m}$ repeatability for stable, reliable measurement.



Highest Capacity

Inspect up to 20 MT/MMC in a single measurement cycle.



Efficiency Inspection

Each inspection in just 1–2 sec / part.