

Pitch Error Measurement System

For High Density Optical Communication Devices



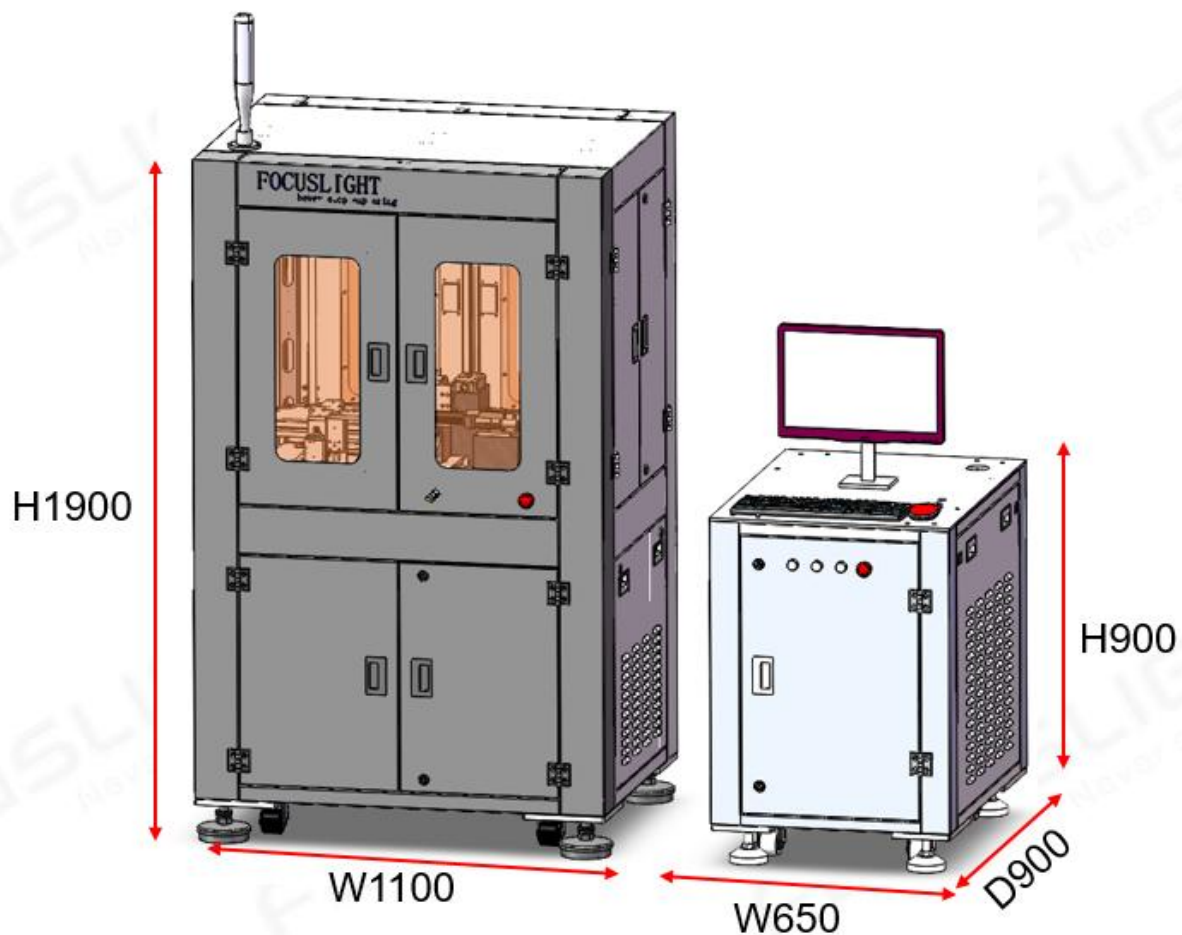
Features

- High-speed measurement
- Sub-micron repeatability accuracy
- All-in-one with functions switchable via software
- Full process automation
- Smart data management

Applications

- High-density Optical Interconnect Production
- Fiber Array Unit (FAU) Inspection
- V-Groove Alignment Verification
- MT Connector Inspection

Product Dimensions (mm)



Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

Product Specifications

Product Code	200201000067
Part No.	FLSM-LL80

General Data	Unit	Value
Applicable Products	-	V-Groove / FA / MT Connector
Fiber Types	-	SM / MM / PM Fiber
Minimum Pitch	μm	40 (V-Groove / FA); 250 (MT)
Maximum Channel Count	-	128 (V-Groove / FA); 16 (MT)
Automation Level	-	Fully Automatic
Report Output	-	CSV / PDF

Measurement Capability		
Measurement Repeatability	μm	3σ < 0.1
System Resolution	μm	0.001
Measurement Cycle	s/channel	<1
Positioning Accuracy (X/Y axis)	μm	<0.1
Positioning Accuracy (Z axis)	μm	<0.2
Automatic Functions	-	Auto Focus / Tilt Compensation / Measurement / Report Generation

Optical & Imaging System		
Camera Resolution	pixels	2448 x 2048
Objective Magnification	-	5x / 20x / 50x
Lighting Configuration	-	Point Light / Backlight / Strip Light
Imaging Capability	-	Fiber End Face & Hole Edge Inspection

Motion Platform		
Platform Type	-	Air Floating Vibration Isolation Marble Platform
Flatness	μm	<2
Control Method	-	Laser Ruler Closed-loop Control

