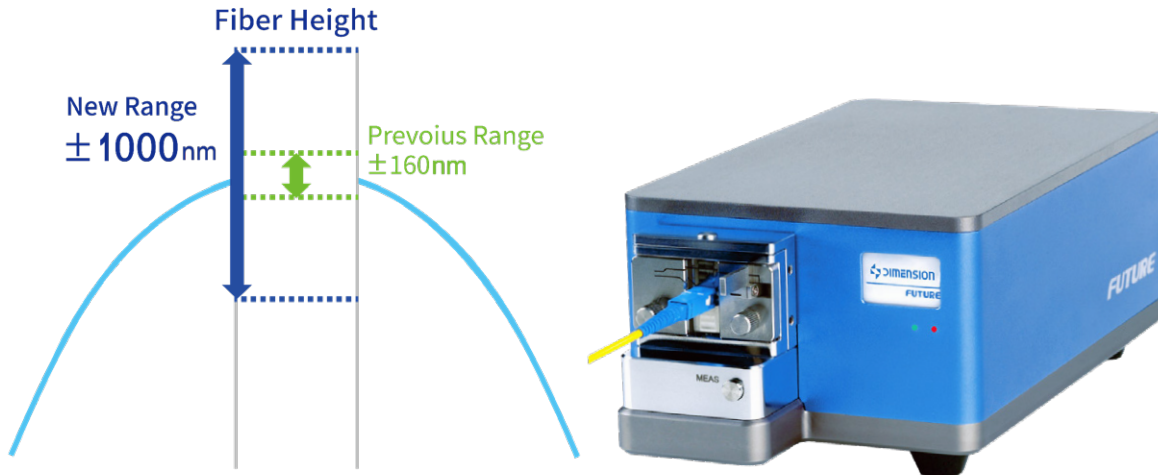


# FUTURE Automatic 5D Fiber Endface Interferometer



FUTURE is the brand new Automatic Fiber End-face Interferometer developed by Dimension Technology, based on our know-how and experience on the fiber inspection instrument. FUTURE provides the comprehensive fiber end-face measurement functions, including 3D profile, auto focusing, auto calibration, auto APC angle tuning and auto end-face judgment. All testing and reporting can be finished in 1.5 second. New engineering on the structure design guarantees the anti-shocking capability and ultra long life of the fixture. FUTURE is the best choice in the market.

## Main Features

- Capable for both 3D profile and visual inspection
- Auto focus and Auto calibration
- 0 ~ 12°APC angle auto tuning
- Self-adapted locking fixture
- Quick measurement
- Reliable data transmission

## Applications

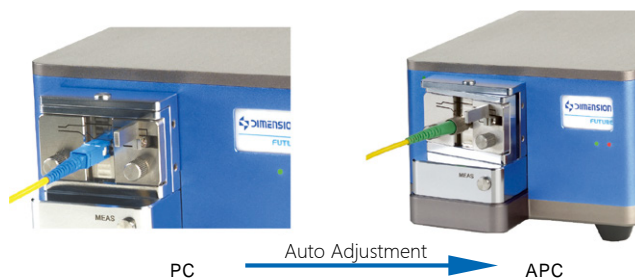
- Used for testing optical fiber devices during polishing and assembly.

### -1000nm~1000 nm Fiber Height

The new optical and mechanical design extend the fiber height range to -1000 ~ +1000nm, in all testing conditions.

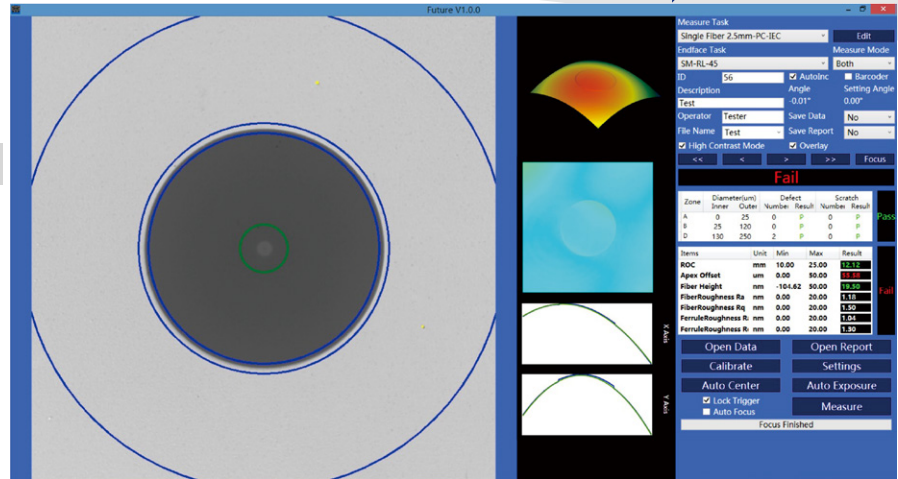
### 0~12° APC Angle Auto Tuning

Benefited with the unique fixture design, FUTURE can tune the APC angle precisely from 0° to 12° automatically, meeting any special requirement on APC angle setting.



### Self-adapted Locking Strength

With the special designed self-adapted locking fixture, the strength to lock the ferrule is consistent. The fixture abrasion is limited and the life cycle of fixture is longer than ever before.



### Reliable Data Transmission

USB 3.0 connection and new hardware design ensure the high speed and reliable data transmission for FUTURE interferometer, even in the complicated field environment. Individual interference testing can be completed in 0.5 second.

### Synchronize 3D Profile Measurement and Visual Inspection

The elaborate designed structure enables FUTURE to complete 3D profile and visual inspection at the same moment. The functions like auto focusing, auto trigger and auto calibration simplify the operation of interferometer than ever before. Just lock the connector, FUTURE will complete the rest.

### Auto Focusing

FUTURE can focus automatically and quickly. In Auto Focus mode, the high accuracy is guaranteed. To be more user-friendly and ensure the flexibility to various users, manual focusing is also designed as an option. The user can tune and fine tune the focus for special applications.

### Auto Calibration

The calibration for FUTURE is fully automatic. After each calibration, FUTURE will compensate on the software and hardware setting automatically.

## Specifications

Ltem	Range	Repeatability	Reproducibility
ROC(mm)	3~Flat	±0.3%	±0.5%
Apex Offset(um)	0~250	±0.5	±1.5
Fiber Height (nm)	-1000~1000	±1	±2
APC Angle ( ° )	0~12	±0.01	± 0.015
Measure Speed (Do not contain focus)	Endface		1s
	Interferometry		1.5s
	Both		2s
Endface Resolution		0.29um	
Data Link		USB3.0	
Power Supply		DC24V	
Size(HXWXD)		283mmX150mmX108mm	

\* Sigma Values

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