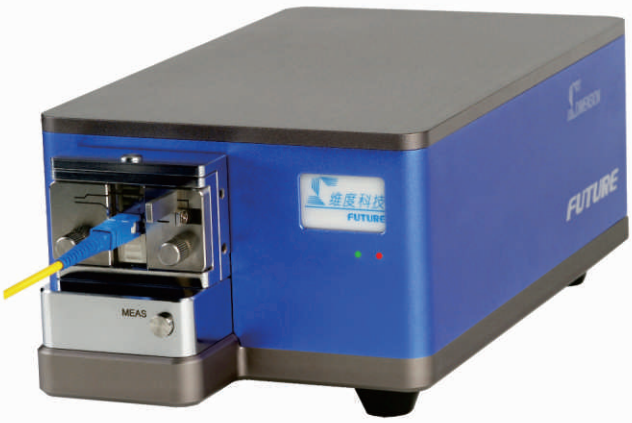
FUTURE Automatic 5D Interfetometer



ORDER CODE **FUTURE**

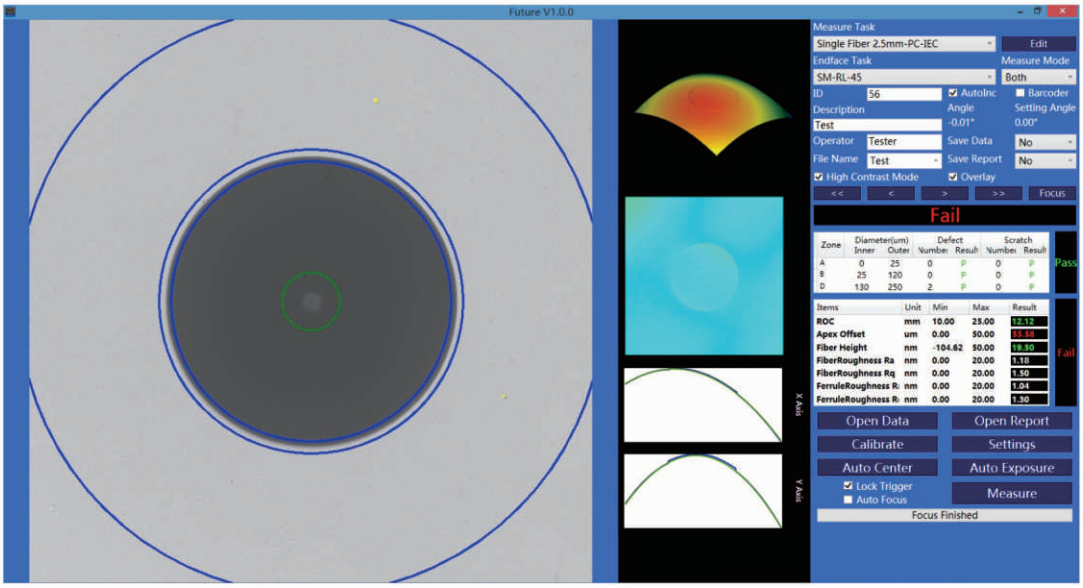
Features :

- Fiber End-face Visual Inspection and 3D profile
- 1.5 second for whole measurement
- Convenient testing, lock the fixture to trigger the testing
- 0~12°APC angle configurable
- Auto Focus and Auto Calibration
- Self-adapted locking strength by fixture design
- Quick Interferometer Testing, less than 0.5 second
- Front panel LED for Clear testing result indication
- Multi language user interface
- Auto reporting in Excel format

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.

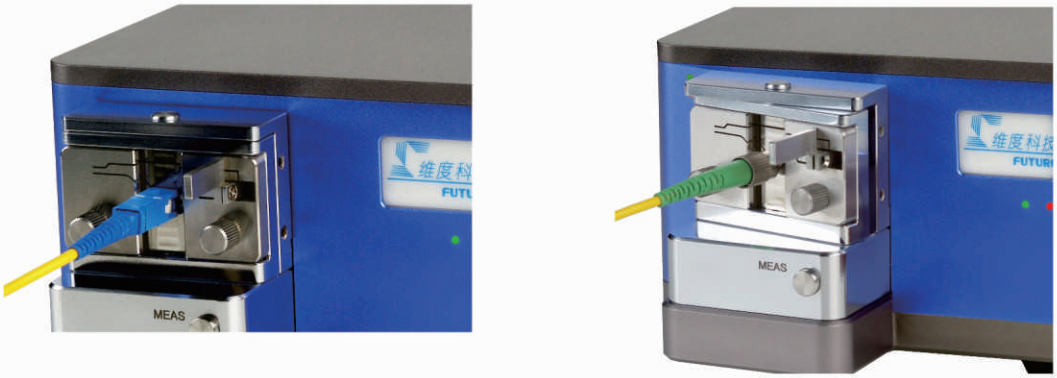
Synchronize 3D Profile Measurement and Visual Inspection

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.



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

Adopting self-adapting fixture structure, automatically fit the locking strength to ferrule, make sure each time the same locking strength to reduce fixture wearing and prolong the fixture life time.

Auto Focusing

With fast auto-focus speed, better accuracy and flexibility, Future can automatically find the interference fringe and generate accurate measurement result once clicking measurement button.

In order to fit the users' habit, Future adds manual focus button to fine adjust and rough adjust, which makes the operation more humanized and convenient.

Auto Calibration

With auto calibration functions, the software and hardware of Future can compensate the calibration result automaticall y, no need to adjust the hardware.

Fast Testing

Future improves the measurment speed greatly, it makes each measurement only 0.5S.

Auto Reporting

Measure Report

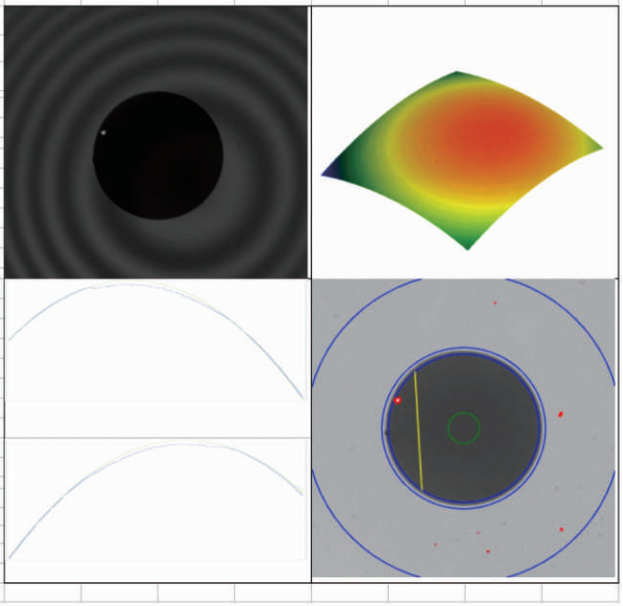
DIMENSION | Future interferometer | Dimension Technology Co.,Ltd

Fail

Measure ID	4
Description	Test
MeasureTask	Single Fiber 2.5mm-PC-IEC
Company	Dimension
TestTime	2016/8/27 9:40
Operator	Tester

Parameter	Unit	Min	Max	Result	
ROC	mm	10	25	16.65	
ApexOffset	um	0	50	36.11	
FiberHeight	nm	-76.94	50	-29.59	
APC-Angle					
KeyError					Pass
FiberRoughnessRa	nm	0	20	1.64	
FiberRoughnessRq	nm	0	20	2.05	
FerruleRoughnessRa	nm	0	20	1.56	
FerruleRoughnessRq	nm	0	20	1.94	

	Zone		Defects		Scratchs	
	Inner	Outer	Count	Result	Count	Result
A	0	25	0	Pass	0	Pass
B	25	120	2	Fail	1	Fail
C	130	250	6	Fail	0	Fail
						Fail



Measure Report

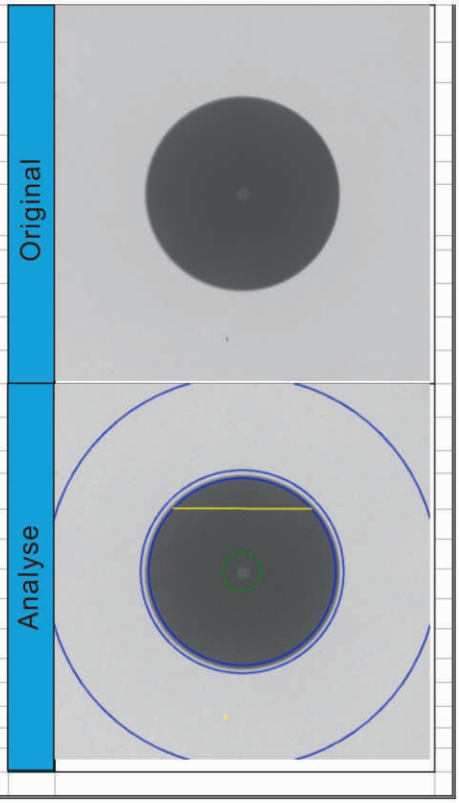
DIMENSION | Future Interferometer | Dimension Technology Co.,Ltd

Pass

Productor ID	64
Description	Test
Measure Task	SM-RL-45
Produced by	Dimension
Test Time	2016/8/26 10:09
Operator	Tester

	Zone		Defects		Scratchs	
	Inner	Outer	Count	P/F	Count	P/F
A	0	25	0	P	0	P
B	25	120	0	P	1	P
C	130	250	1	P	0	P

Signature _____ Date _____



Measure Report

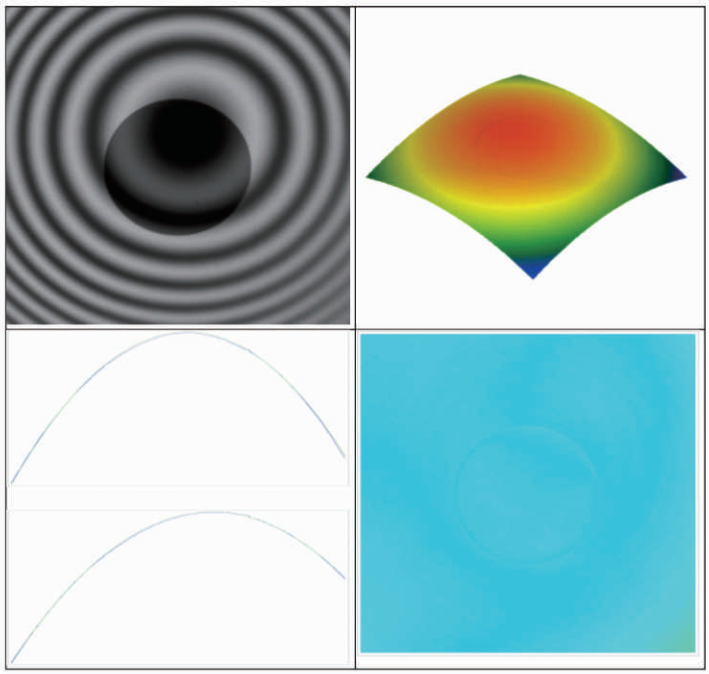
DIMENSION | Future Interferometer
Dimension Technology Co.,Ltd

Pass

Measure ID	2
Description	Test
MeasureTask	Single Fiber 2.5mm -PC-IEC
Company	Dimension
TestTime	2016-08-29 13:19:30
Operator	Tester

Parameter	Unit	Min	Max	Result
ROC	mm	10	25	13.91
ApexOffset	um	0	50	31.46
FiberHeight	nm	-91.48	50	-6.4
Angle				
KeyError				
FiberRoughnessRa	nm	0	20	0.63
FiberRoughnessRq	nm	0	20	0.79
FerruleRoughnessRa	nm	0	20	0.8
FerruleRoughnessRq	nm	0	20	0.97

Sign _____



Specification

Item	Range	Repeatability*	Reproducibility*
ROC(mm)	3~∞	±0.1%	±0.2%
Apex Offset(um)	0~250	±0.5	±1.5
Fiber Height(nm)	-160~160	±1	±2
APC Angle (°)	0~12	±0.01	±0.015
Magnification	20X		
Test Speed	0.5s(Exclude Auto Focus)		
Size	283mm * 150mm * 108mm (L*W*H)		
Power Supply	DC 24V		
Data Link	USB 3.0		

Repeatability values are calculated from 50 continuous measurements without insertion and rotation of the conector between measurements.
Stability values are calculated from 50 times continuous measurements with insert and pull from fixtures between measurements.