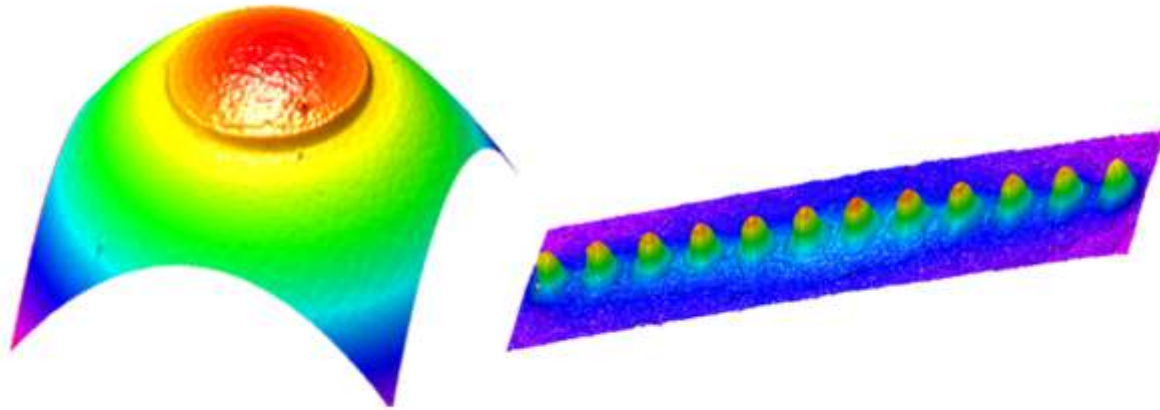




Dimension Interferometer Series



Interferometers



Dimension Technology has been pursuing for the continuous improvement of fiber optical interferometer. Dimension Technology has become a global leader in the field. The outstanding performance and convincing test results has won the trust of the majority of users. Based on the market requirements and future trend for products, Dimension Technology has developed the series products to meet needs of various customers.

BINNA-MT Multi Fiber Interferometer

BINNA Auto Interferometer

SANA mini Portable Interferometer

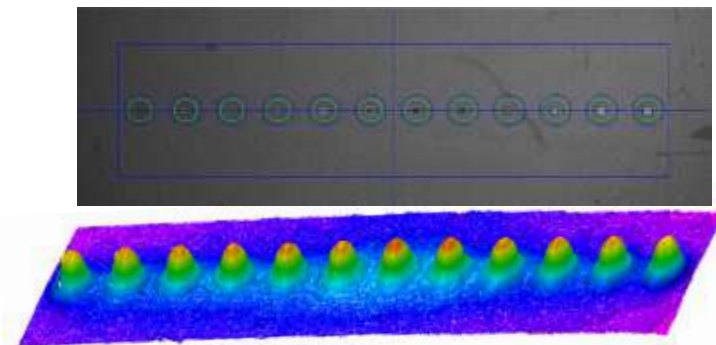
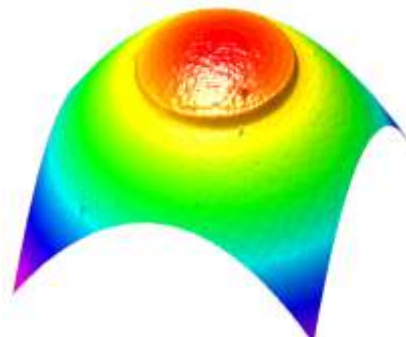
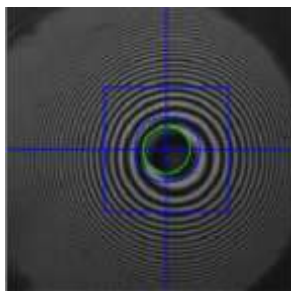
SANA Interferometer

FA-GO Fiber Array Interferometer

BINNA-MT Multi Fiber Interferometer



BINNA-MT is an automatic and non contact fiber endface interferometer for both multi-fiber and single fiber connectors. It can measure the geometry parameters of multi fiber connectors such as fiber height, core dip, and radius of curvature and is able to test single fiber connectors. Equipped with high performance software and hardware, it can display the surface of the connector in 3D images and generate the data and report automatically.



BINNA-MT Multi Fiber Interferometer



1. Multi and Single Fiber Connector Testing

Multi and Single Fiber Connector Testing

Wide Sight: can test 72 core MPO connector at one time.

2. Ultra Fast Test Speed

Only 8s needed to test 12 core MPO connector.

3 Simple and User Friendly Interfaces and Excellent 3D Images

The software of BINNA-MT is simple and user friendly, you can change the language within the software. It provide many endface rebuild method such as 3D, 2D, plot to assist the engineers about the process. The test reports and data are generated automatically for analyzing and tracing.

4. Durable and Precise Fixtures

Fixture for single fiber and multi fiber connectors are included. There is no need to change fixtures for measuring between PC and APC.

5. Auto Focus and Calibration

BINNA-MT has auto focus and auto calibration functions can eliminate the human factors in testing and increase the stability of the system. The BINNA MT will provide accurate and stable results.

BINNA-MT Multi Fiber Interferometer



Specification:

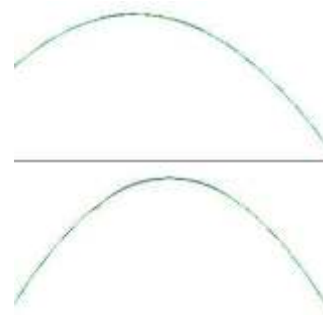
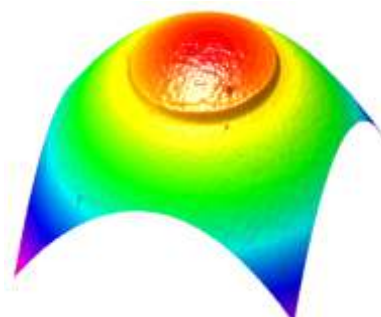
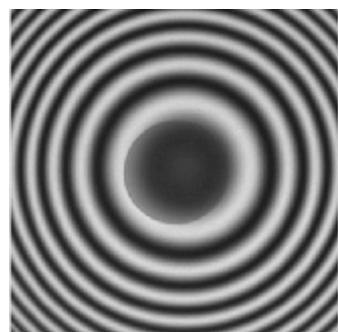
| Item | Measurement Range | Repeatability* | Reproducibility * |
|--------------------|-------------------|----------------|-------------------|
| X/Y ROC (mm) | 3 ~ ∞ | 1% | 3% |
| X/Y Endface Angle | 0 or 8 degree | ±0.015 | ±0.025 |
| Flatness Deviation | 0 ~ 200 nm | ±0.01 | ±0.02 |
| Fiber Height(um) | 0 ~ 8 | ±0.01 | ±0.015 |
| Test Speed(s) | MT-RJ ferrule: 2s | | |
| | MT-12 ferrule: 5s | | |
| Autofocus Speed(s) | 2s | | |

*Sigma Values: Repeatability values are calculated from 50 continuous measurements without insertion and rotation of the connector between measurements.
Reproducibility values are calculated from 50 continuous measurement with insert and pull from fixtures between measurements.

BINNA Auto Interferometer



BINNA is an automatic, non contact fiber endface interferometer for single fiber connector developed by Dimension. It is designed to measure the geometry parameters of single fiber connector endface. Equipped with auto focus and auto centering functions, BINNA is very accurate and stable, it can also test bare fiber and bare ferrule. BINNA is very helpful in fiber connector manufacturing to increase the quality of the connectors.



BINNA Auto Interferometer



1. Powerful Test Functions

The universal 2.5mm and 1.25mm fixtures equipped with BINNA are able to test most kinds of connectors. 2.5mm fixtures are able to test connectors such as FC/PC, SC/PC, ST/PC, E2000/PC, DIN, FC/APC, SC/AP. 1.25mm fixtures are able to test connectors such as LC/PC, MU/PC, LC/APC. No need to change fixtures or calibration in APC/PC conversion, you only need change the angle of the platform.

2. Auto Centering

The newly designed fixture and software provide high precision, you can just click the "CenterImage" button to centering the fiber other than adjust the position by hand.

3. Auto Focus

BINNA has Auto Focus function and doesn't need to adjust the focus manually. You just need to click the "Measure" button to finish the measuring sequence. BINNA also provides manual control function in the software.

4. Multi Product Measurement

Bare Ferrule Measurement, Bare Fiber Measurement and Polish Angle Measurement

5. Tested by Telcodia

BINNA has been tested by Telcodia and has been proved to be accurate.

BINNA Auto Interferometer



Specification

| | | |
|-------------------|----------------------------|-----------|
| Repeatability* | Radius of Curvature | ±0.1% |
| | Fiber Height | ±1nm |
| | Apex Offset | ±0.5um |
| | Angle | ±0.01deg |
| Reproducibility * | Radius of Curvature | ±0.05mm |
| | Fiber Height | ±2nm |
| | Apex Offset | ±1.5um |
| | Angle | ±0.015deg |
| APC Angle* | 0° or 8° | |
| Working Tempeture | -10°C ~ 30°C | |
| Magnification | 10X | |
| Resolution | 1um | |
| Wavelength | 635nm | |
| Power Supply | 24V DC | |
| Size | 23cm*15cm*10cm (L * W * H) | |
| Weight | 5.0Kg | |

*Sigma Values: Repeatability values are calculated from 50 continuous measurements without insertion and rotation of the connector between measurements.
Reproducibility values are calculated from 50 continuous measurement with insert and pull from fixtures between measurments.

SANA mini Portable Interferometer



SANA mini is a portable, non contact fiber endface interferometer developed by dimension for single fiber connector. Despite its incredible size, it can test geometry parameters of single fiber connector as well as bare fiber and bare ferrules. The performance of SANA mini is in the same grade of SANA. SANA mini is the pioneer of portable interferometer.

Portable Fiber Endface Interferometer

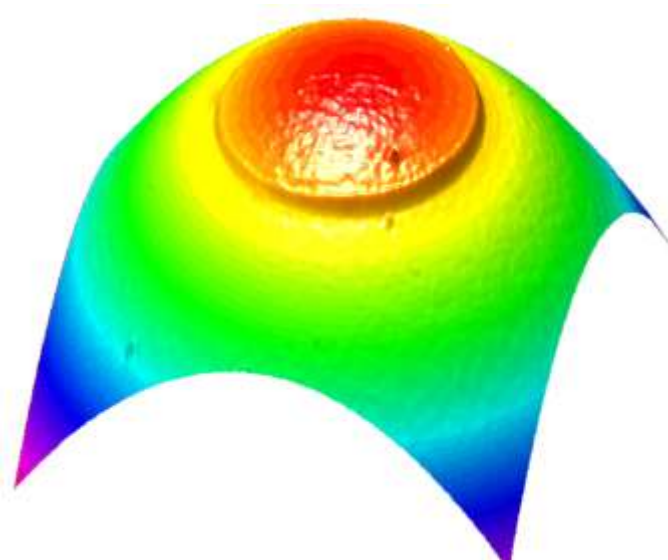
Only One USB needed

Auto Centering Fiber

2s needed for one connector

Easy PC/APC Changing

Tested by Telcordia



SANA mini Portable Interferometer



Specification

| Item | Measurement Range | Repeatability* | Reproducibility * |
|-------------------|-------------------|----------------|-------------------|
| ROC(mm) | 1 ~ ∞ | 0.1% | 0.2% |
| Fiber Height(nm) | -160 ~ +160 | ±1 | ±2 |
| Apex Offset(um) | 0 ~ 200 | ±0.5 | ±1.5 |
| APC Angle(degree) | 0 or 8 | 0.02 | 0.03 |
| Power | By USB | | |
| Weight | 0.8Kg | | |
| Size | L12*W5.3*H8(CM) | | |

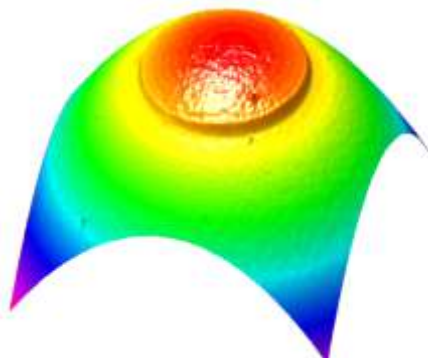
*Sigma Values: Repeatability values are calculated from 50 continuous measurements without insertion and rotation of the connector between measurements.
Reproducibility values are calculated from 50 continuous measurement with insert and pull from fixtures between measurements.

SANA Interferometer

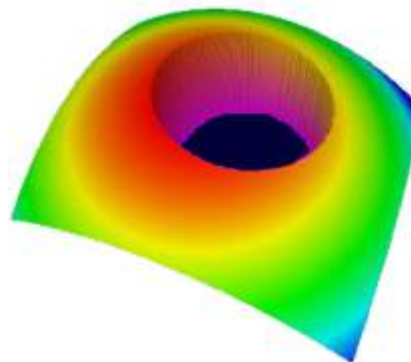


The new generation SANA interferometer was developed according to the requirement from current various users. It has more accurate test result, faster test speed, higher repeatability, more powerful functions. Futhermore, it has very favorable price.

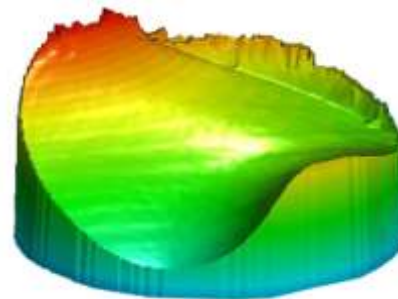
Connector



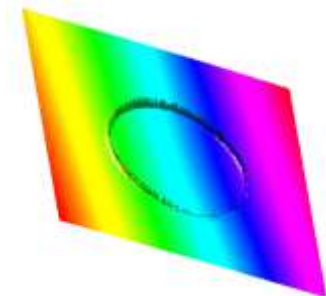
Bare ferrule



Fiber cutting



Polish Angle



SANA Interferometer



1. Powerful Measuring Functions

The universal 2.5mm and 1.25mm fixtures equipped with SANA are able to test most kinds of connectors. 2.5mm fixtures are able to test connectors such as FC/PC, SC/PC, ST/PC, E2000/PC, DIN, FC/APC, SC/AP. 1.25mm fixtures are able to test connectors such as LC/PC, MU/PC, LC/APC. No need to change fixtures or calibration in APC/PC conversion, you only need change the angle of the platform.

2. Auto Centering

The newly designed fixture and software provide high precision, you can just click the "CenterImage" button to centering the fiber other than adjust the position by hand.

3. Simple and User Friendly Interfaces and Excellent 3D Images

The software of SANA is simple and user friendly, you can change the language within the software. It provide many endface rebuild method such as 3D, 2D, plot to assist the engineers about the process. The test reports and data are generated automatically for analyzing and tracing.

4. Easy and Fast Calibration

SANA uses 6 point calibration method, the whole calibration sequence costs for 2-3 min and don't need to adjust the hardware because of the software.

SANA Interferometer



Specification

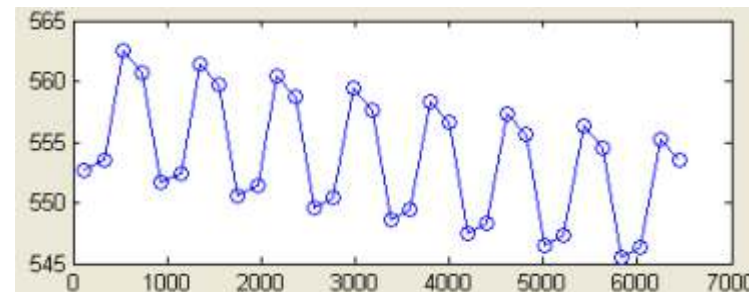
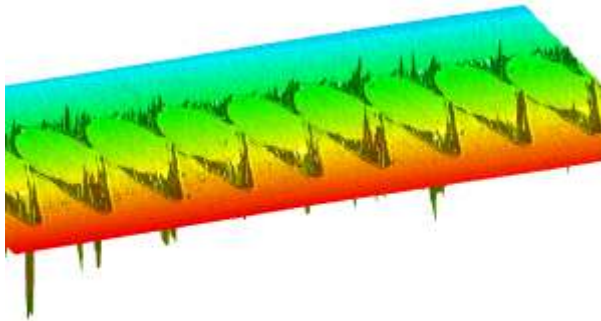
| | | |
|---------------------|----------------------------|-----------|
| Repeatability* | Radius of curvature | 0.1% |
| | Fiber Height | ±1nm |
| | Apex Offset | ±0.5um |
| | Angle | ±0.01deg |
| Reproducibility * | Radius of curvature | 0.2% |
| | Fiber Height | ±2nm |
| | Apex Offset | ±1.5um |
| | Angle | ±0.015deg |
| Angle | 6°~9° | |
| Working Temperature | -10~30°C | |
| Magnification | 10X | |
| Resolution | 1um | |
| Wavelength | 635nm | |
| Power Supply | 12V DC | |
| Size | 30cm*15cm*10cm (L * W * H) | |
| Weight | Mainframe about 5.5Kg | |

*Sigma Values: Repeatability values are calculated from 50 continuous measurements without insertion and rotation of the connector between measurements.
Reproducibility values are calculated from 50 continuous measurement with insert and pull from fixtures between measurements.

FA-GO Fiber Array Interferometer



FA-GO fiber array endface analyzer is the first type instrument to measure FA component in the world, which is developed by Dimension Technology Inc. FA-GO filled up the instrument blank of FA measurement, it has important meaning to raise endface quality of fiber array. It is with features of cost efficient , auto-focus, high accuracy ,fast test speed and strong shake resistance.



FA-GO Fiber Array Interferometer



Specification

| Parameters | Range | Repeatability* | Reproducibility* |
|--------------------------|--------------|----------------|------------------|
| Polishing angle(degree) | 7 ~ 9 | ±0.1% | ±0.2% |
| Tilt Angle(degree) | -0.5 ~ +0.5 | ±0.01 | ±0.02 |
| Fiber Height (nm) | -1000~ +1000 | ±1 | ±2 |
| Fiber High Deviation(nm) | -1000~ +1000 | ±1 | ±2 |
| Autofocus speed(s) | | <5 | |
| X Axis Scan Range(mm) | | 15 | |
| Weight(kg) | | 8.5 | |
| Size(cm) | | L25.8*W16.2*10 | |

*Sigma Values: Repeatability values are calculated from 50 continuous measurements without insertion and rotation of the connector between measurements.

Reproducibility values are calculated from 50 continuous measurement with insert and pull from fixtures between measurements.