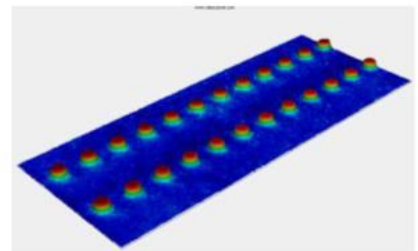


# DAISI-MT-V3

## 全自动单芯,多芯连接器专用干涉仪



MPO-48 PC endface measurement example.



MPO-24 PC ferrule measurement example.

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### 产品介绍

非接触式白光和红光干涉仪  
 利用闭环控制达到30微米Z方向扫描的高精度  
 振动不敏感  
 快速自动聚焦  
 基准镜面自动校准  
 精密，易于操作的插芯夹具  
 可测量所有种类单芯和多芯PC/APC连接器  
 低发热LED光源  
 高像素高清摄像头  
 单次扫描96芯光纤  
 符合国际标准  
 独有的DATA-PIXEL快速测量软件  
 12芯插芯测量时间<9秒以下 (6秒扫描；3秒模拟端面几何形状 )  
 便携式  
 简单的一键式控制  
 USB2.0和USB3.0连接计算机

### 技术指标

|              | *重复性/再现性     | 范围                                                    |
|--------------|--------------|-------------------------------------------------------|
| 插芯类型         |              | MT多芯插芯和单芯                                             |
| X & Y 角度 (°) | 0.002 / 0.02 | 0°(PC) or 8°(APC)偏差±1°                                |
| 光纤高度 (μm)    | 0.003/ 0.01  | 最高到 20μm                                              |
| 测量速度         |              | 6 秒扫描；3秒模拟端面几何形状 * 12芯MT插芯                            |
| 自动聚焦速度       |              | 通常3秒；可能增加到10秒，取决于研磨效果和插芯的类型                           |
| 视野           |              | 最大可控区域5.6 x 3.0mm<br>支持16芯光纤 / 行；最多支持 6 行 (96芯光纤)一次扫描 |
| 横向显示精度       |              | 最大可控精度 2.5μm max.                                     |
| 波长           |              | 白色和红色 (632nm) LED                                     |
| 电脑连接要求       |              | 1个空闲的 USB3.0接口和1个空闲的 USB2.0接口                         |
| 电源要求         |              | 12V – 25VA                                            |
| 温度           |              | 10 to 35°C                                            |
| 湿度           |              | 5 to 95%, 无结露                                         |

- 1 Sigma values based on the measurement of an MT connector with 2.5μm high fibers and 95% valid pixels.
- Repeatability values calculated from 50 consecutive measurements without interaction on connector between measurements.
- Reproducibility values calculated from 50 consecutive measurements while removing and inserting connector in ferrule holder between measurements.

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### MT-16测量报告

|                           |          |            |           |      |
|---------------------------|----------|------------|-----------|------|
| Ferrule X angle [SX]      | -0.150 ° | 0.150 °    | 0.008 °   | PASS |
| Ferrule Y angle [SY]      | -0.200 ° | 0.200 °    | 0.064 °   | PASS |
| Ferrule X radius [RX]     | 2000 mm  | -10000  mm | 2711 mm   | PASS |
| Ferrule Y radius [RY]     | 5 mm     | -10000  mm | 97 mm     | PASS |
| Max adjacent height diff. | -        | 300.0 nm   | -170.2 mm | PASS |
| Max core dip [CD]         | -        | 300.0 nm   | nan mm    | PASS |
| Minus coplanarity         | -        | 500.0 nm   | 304.1 mm  | PASS |
| Fibers X angle [GX]       | -0.150 ° | 0.150 °    | 0.005 °   | PASS |
| Valid pixels              | 23 %     | -          | 86 %      | PASS |

| Fiber # | Fiber height | Adjacent height | Core dip | Fiber tip radius | Fiber # | Fiber height | Adjacent height | Core dip | Fiber tip radius |
|---------|--------------|-----------------|----------|------------------|---------|--------------|-----------------|----------|------------------|
| 1       | 2490.7 nm    | nan nm          | nan nm   | 4.0 mm           | 13      | 2989.6 nm    | 55.6 nm         | nan nm   | 4.0 mm           |
| 2       | 2660.9 nm    | -170.2 nm       | nan nm   | 4.3 mm           | 14      | 2897.4 nm    | 92.2 nm         | nan nm   | 3.3 mm           |
| 3       | 2789.7 nm    | -128.9 nm       | nan nm   | 4.7 mm           | 15      | 2774.9 nm    | 122.5 nm        | nan nm   | 3.0 mm           |
| 4       | 2827.9 nm    | -38.1 nm        | nan nm   | 4.3 mm           | 16      | 2700.3 nm    | 74.6 nm         | nan nm   | 2.9 mm           |
| 5       | 2874.2 nm    | -46.3 nm        | nan nm   | 4.6 mm           |         |              |                 |          |                  |
| 6       | 2942.3 nm    | -68.1 nm        | nan nm   | 4.7 mm           |         |              |                 |          |                  |
| 7       | 2999.9 nm    | -57.7 nm        | nan nm   | 4.5 mm           |         |              |                 |          |                  |
| 8       | 3033.9 nm    | -33.9 nm        | nan nm   | 4.9 mm           |         |              |                 |          |                  |
| 9       | 3064.1 nm    | -30.3 nm        | nan nm   | 4.9 mm           |         |              |                 |          |                  |
| 10      | 3116.5 nm    | -52.4 nm        | nan nm   | 4.6 mm           |         |              |                 |          |                  |
| 11      | 3142.9 nm    | -26.4 nm        | nan nm   | 4.3 mm           |         |              |                 |          |                  |
| 12      | 3045.2 nm    | 97.7 nm         | nan nm   | 4.4 mm           |         |              |                 |          |                  |

