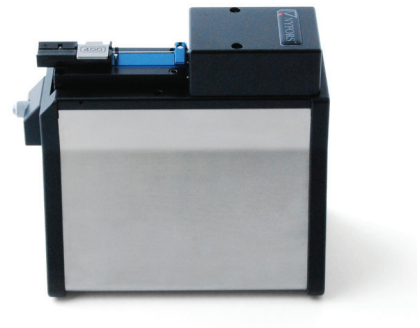

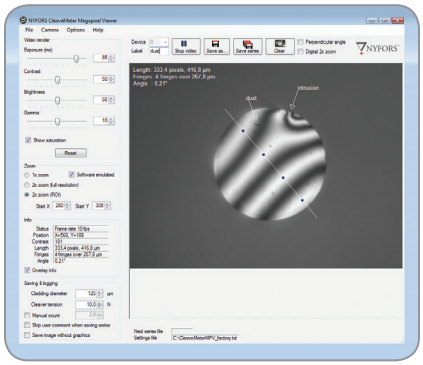

# CleaveMeter 2™

The CleaveMeter 2 is a non-contact interferometer designed for inspecting the end-faces of cleaved and polished optical fibers with cladding diameters of 125 µm to 1200 µm. It gives immediate information on important end-face properties such as flatness, perpendicularity, hackles and dust. Sampling tests as well as continuous process documentation can be carried out both easily and quickly, making this an ideal instrument for cleaver inspection and optimization.

The optical system is based on a high-end camera with true megapixel resolution and very high sensitivity, yielding excellent image quality at high frame rates and high magnification. Switching between low and high magnification is software-controlled. High-precision optics guarantees sharp and clear images and fringe patterns with very little aberration.

The CleaveMeter 2 comes with user friendly and efficient software available in two different versions – standard and premium. Standard software features include cleave angle measurements with in-picture presentation of results, user-defined markers at points of interest, pseudo-color mode for better contrast and the ability to log information, save and load images to and from files. The premium software package includes support for measurement of plane angles and fiber diameters as well as compensation for adapter plate angle error for increased accuracy.

The CleaveMeter 2 comes in a small ergonomic, bench-top design and connects to the USB port of a PC running the host application.

## Features

- Sharp fringe patterns
- Flat and angled cleave measurements
- Operator skill independent for fast operation
- Accepts fibers with claddings from 125 µm up to 1200 µm
- Accepts fiber holders of major splicer manufacturers
- Adapter plate angle error measurement and compensation (Premium software)
- Plane angle and three-point fiber diameter measurement (Premium software)

## Specifications

| PARAMETER | VALUE |
|---|---|
| Fiber Cladding | 125–1200 µm* |
| Fiber Coating | 250–1500 µm |
| Camera Resolution: | 1280 × 1024 pixels |
| Image Scale: | 1.25 µm per pixel |
| Image file format | 8-bit JPEG, PNG, TIFF, BMP |
| Absolute Accuracy | 0.15 degree (standard version), 0.03 degree (premium version)** |
| Relative Accuracy | 20 % (125-199 µm) |
| Relative Accuracy | 10 % (200-529 µm) |
| Relative Accuracy | 5 % (530-1200 µm) |
| PC Connection: | USB 2.0 port |
| Power Supply: | Through USB port |
| Dimensions | 97 mm (W) × 179 mm (D) × 142 mm (H) |
| Weight | 1.6kg |

* Fiber specific adapter plates required

** This level of accuracy requires adapter plate angle errors to be measured/compensated on the individual CleaveMeters they are used with (Premium software only).

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# CleaveMeter 2™

## Ordering Information

| DESCRIPTION | AFL NO. |
|---|---|
| **CleaveMeter 2 Standard**<br>Includes: Standard PC Software, USB Cable, Manual & Tools (Adapter Plate purchased separately - see below) | 30100012 |
| **CleaveMeter 2 Premium**<br>Includes: Premium PC Software, USB Cable, Manual & Tools (Adapter Plate purchased separately - see below) | 30100011 |

## Accessories

| DESCRIPTION | AFL NO. |
|---|---|
| Adapter plate, FJK, 115-210 µm | 30100001 |
| Adapter plate, FJK, 200-529 µm | 30100002 |
| Adapter plate, FJK, 510-800 µm | 30100003 |
| Adapter plate, FJK, 800-1200 µm | 30100004 |
| Adapter plate, NYFORS, Custom | 30100007 |
| Angle adapter plate, 15 degrees | 30100008 |
| Angle adapter plate, 8 degrees | 30100009 |
| Angle adapter plate, Custom | 30100010 |

Fiber specific adapter plates are required to clamp and align the fiber to the interferometer optics.
They are not included in delivery and should be ordered separately.

Select Adapter Plate to match fiber cladding diameter and Angle Adapter Plate (optional) to match the fiber tilt angle.

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